



Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.

Report Period: From March, 2014 To March, 2015

Permit No. ILR40 00283

MS4 OPERATOR INFORMATION: (As it appears on the current permit)

Name: City of Aurora Mailing Address 1: 44 E. Downer Place

Mailing Address 2: _____ County: Kane

City: Aurora State: IL Zip: 60560 Telephone: 630-256-3200

Contact Person: L. Eric Schoeny Email Address: eschoeny@aurora-il.org
(Person responsible for Annual Report)

Name(s) of governmental entity(ies) in which MS4 is located: (As it appears on the current permit)

Kane County Dupage County
Kendall County Will County

THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

- | | | | |
|--|-------------------------------------|---|--------------------------|
| 1. Public Education and Outreach | <input type="checkbox"/> | 4. Construction Site Runoff Control | <input type="checkbox"/> |
| 2. Public Participation/Involvement | <input type="checkbox"/> | 5. Post-Construction Runoff Control | <input type="checkbox"/> |
| 3. Illicit Discharge Detection & Elimination | <input checked="" type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input type="checkbox"/> |

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

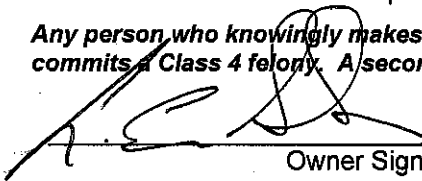
C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))


Owner Signature:

L. Eric Schoeny

Printed Name:

5/29/2015
Date:

Drainage & Underground Coordinator

Title:

EMAIL COMPLETED FORM TO: epa.ms4annualinsp@illinois.gov

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

Illinois Environmental Protection Agency
Municipal Separate Storm Sewer Systems (MS4)
2014 Annual Facility Inspection Report
City of Aurora, Illinois
Permit No. ILR400283

Section A. Changes to Best Management Practices (BMP's)

The City of Aurora is proposing a change to the BMP's listed in the 2014 MS4 NOI as follows:

Illicit Discharge Detection and Elimination

Aurora's 2014 NOI states that the City will inspect 20% of all outfalls that discharge into waters of the state per year. An tabulation of all storm outfalls was performed after submission of the 2014 NOI. The inventory results indicate Aurora has at least 705 storm outfalls. During higher stream flows, inspection of many outfalls is impractical. Due to the large number of outfalls, and the uncertainty of how often throughout the year some of these outfalls will be accessible, Aurora is requesting that the minimum number of outfalls to be inspected on an annual basis be reduced to 10% or 71 outfalls.

Section B. Status of Compliance with Permit Conditions

1. Public Education and Outreach

BMP A2 – Speaking Engagement

Goal: To conduct a minimum of two speaking engagements on Stormwater Management per year.

Milestones:

Years 1-5: To conduct a minimum of two speaking engagements per year.

Results:

During the reporting period, the City of Aurora conducted the following speaking engagements:

- April 14th, 2014 Spokane Washington H2O Breakfast by Mayor Thomas Weisner
- September 9th, 2014 The Conservation Foundation Beyond the Basics – Tour of Raingardens
- May 28th, 2014 4th Ward Neighborhood meeting
- October 22, 2014 Presentation at a Fox Metro Water Reclamation District Board of Trustees meeting
- February 7, 2015 Presentation to Sustainability Committee
- February 26, 2015 Presentation at Green Town Aurora

BMP A3 – Public Service Announcement

Goal: To Publish one article on stormwater management per year in the Aurora Borealis.

Milestones:

Year 1-5: Publish one article on Stormwater management per year in the Aurora Borealis

Results:

An article regarding Aurora's efforts to control CSO's with green infrastructure was published by the National Public Radio. The story can be found at the below address:
<http://northernpublicradio.org/post/update-aurora-rain-gardens>

BMP A6 – Other Public Education

Goal: To Provide Stormwater Related information on the City's web site.

Milestones:

Year 1: Develop web page.

Years 2–5: Maintain web page

Results: The City of Aurora has expanded its web site to include additional pages related to water quality and green infrastructure.

<https://aurora-il.org/green/raingarden.php>

2. Public Participation/Involvement

BMP B4 – Public Hearing

Goal: To present the City's MS4 program at a public meeting.

Milestones:

Year 1: Conduct a public meeting to present the MS4 program to the public.

Results:

The MS4 permit was presented to members of City Council and attending public at a Building, Grounds, and Infrastructure committee meeting.

This goal has been accomplished.

BMP B3 – Stake Holder Meeting

Fox River Study Group

The City of Aurora is a member of FRSG. The FRSG is comprised of various stake holder groups such as the Sierra Club, Fox River Ecosystem Partnership, Friends of the Fox River, Kane County, IEPA and several sanitary districts and municipalities.

The mission of the FRSG is to bring together a diverse coalition of stakeholders to work together to preserve and/or enhance water quality in the Fox River watershed. The activities of the FRSG include the following:

- Participation in water quality monitoring efforts in the Fox River watershed;
- Development of a computer model of the Fox River watershed;
- Maintenance of the computer model as a management tool to promote efficient use of taxpayer and private money on watershed projects, assess the effect of various development options throughout the watershed, educate stakeholders, evaluate management priorities, identify sensitive regions within the watershed, develop continuing monitoring programs;
- Development of a plan to preserve and/or enhance the water quality of the Fox River; and
- Promotion, as needed, of the adoption of the watershed plan by appropriate entities who have the authority for its implementation

The City of Aurora is currently working with the FRSG to develop recommendations to the IEPA regarding future NPDES point discharge permit requirements.

Sustainable Aurora

Support and give guidance to the Mayor's Sustainable Aurora Advisory Board. The Sustainable Aurora Advisory Board is an advisory body to the City Council, on the development or initiation of programs or actions that will enhance, develop and create sustainable practices within the community. The Board is composed of thirteen (13) Members who are residents of the City, and appointed by the Mayor subject to the approval of the City Council. Members are appointed to a one, two or three year term with no maximum term limit. Regular meetings are held once a month; special meetings may also be called.

Functions and Duties: Assist the City Council and the Mayor's Office in balancing community priorities and resources by advising them on sustainability issues. Some examples of the Members' functions and duties are as follows:

- Make recommendations to the City Council and the Mayor's Office for programs or actions designed to implement the recommendations contained in the City Sustainability Plan.
- Provide a forum for addressing public concerns related to sustainable and environmental policies and practices.
- Promoting a local movement, partnering with motivated stakeholders, establishing implementation priorities, identifying financing opportunities, and engaging local residents.
- Provide input on sustainability policies and practices that reflect the community values.

Greentown Aurora

On February 26, the City of Aurora hosted Green Town Aurora. The event was attended by over 100 citizens interested in protecting and improving the environment through local efforts. For more information visit the following web page:

<https://www.greentownconference.com/upcoming-events/greentown-aurora/>

BMP B7 – Other Public Involvement

Aurora/TCF Rain Barrel Program

The City of Aurora 2013 Rain Barrel Program was in cooperation with The Conservation Foundation. Through the program, The Conservation Foundation provided educational materials to local residents at several events including Farmers Markets, Library presentations and product distributions. The Foundation also handled all product orders, specific product-related questions and distribution. The City of Aurora Public Works / Engineering Division coordinated Special Events, the Aurora Public Library and the Public Information Division to inform local residents of details regarding the program. The City provided advertising for all The Foundation events, reserved locations, coordinated classes and drop-offs to maximize product sales and acted as liaison between residents and The Foundation as needed.

Advertising

Advertising consisted of –

General information

Ordering information

Pre-ordered pick up dates

Information on the educational presentations

City of Aurora Web site

Aurora Borealis Summer Issue

Aurora Public Library Newsletter

City of Aurora Press Release

3. Illicit Discharge Detection and Elimination

BMP C1 – Storm sewer Map Preparation

Goal: To continue to update the City's storm, sanitary, and combined sewer atlas.

Milestones:

Years 1-5: Continue to update the City's storm, sanitary, and combined sewer atlas.

Results:

The City's Water and Sewer Maintenance Division in conjunction with Engineering devotes at least one full time staff member to updating and refining the City's sewer atlas.

BMP C5

Goal: To administer an effective Illicit Discharge Detection and Elimination Program

Milestones:

Years 1-5: Continue to identify and eliminate sources of illicit discharge.

Results:

The City adequately enforced Aurora's ordinances related to illicit discharge.

Results:

Sections 48-131 through 48-142 specifically and effectively address Illicit Discharges into the City's stormwater management system and receiving streams.

BMP C7 Visual Dry Weather Screening

Goal: To inspect a minimum of 10% of the City's storm sewer outfalls

Milestones:

Years 1-5: Inspect 10% of the City's storm sewer outfalls (71) per year.

Results:

Due to untimely wet weather and other demands on City resources, only 15 outfalls were inspected during 2014.

4. Construction Site Runoff Control

BMP's D1, D2, D4, D6, D7

Goal: – Per Ordinance No. 001.67, the City of Aurora adopted and modified the Kane County Storm Water Ordinance. The City administers and enforces the Storm Water Ordinance within the corporate limits of the City of Aurora. The Storm Water Ordinance is the fundamental regulatory program that governs the implementation of soil erosion and sediment control BMP's, the review of site engineering plans, and BMP's used to address storm water quality and quantity.

Milestones:

Years 1-5: Continue to administer and enforce the Stormwater Ordinance.

Results:

The Stormwater Ordinance continues to be effectively implemented by trained members of the City's Engineering Division. All City of Aurora plan reviewers are either licensed Professional Engineers, Certified Flood Plain Managers, or both.

5. Post-Construction Runoff Control

BMP's E3, E4, E5, E6,

Goal: – See above.

Milestones:

Years 1-5: Continue to administer and enforce the Stormwater Ordinance.

Results:

The Stormwater Ordinance satisfies all the minimum requirements for this section.

6. Pollution Prevention/Good Housekeeping

BMP's F2, F3, F4, F6

Goal: To integrate stormwater pollution control measures with the services and operational activities performed by the City.

Fleet Maintenance

The City of Aurora's equipment and vehicle maintenance activities consist of procedures that minimize the potential for contaminants to enter the storm sewer system. As well as reducing the potential for storm water pollution, Fleet Maintenance also strives to reduce the total carbon foot print caused by the City's vehicle operations.

Some Best Management Practices currently being implemented by the Fleet Maintenance Department include the following:

- All passenger vehicles are currently washed at a commercial car wash that recycles the wash water, and does not discharge into the City's storm sewer system. The remaining trucks and equipment are washed in an area that drains to a de-siltation basin, the liquid is discharged to the sanitary sewer and the solids are removed and transported to a facility permitted to accept such waste.
 - All used oil, filters, anti-freeze, tires, and batteries are recycled.
 - All steel, tin, rubber, and aluminum is recycled.
 - Diesel Catalyst mufflers have been installed on 21 fleet dump trucks, many of these trucks were replaced with more efficient trucks during the reporting period.
 - 95% of the diesel fleet has been converted to B-5
 - Implementation of a City vehicle engine idling policy. (See attached)
 - Starters, alternators and other miscellaneous parts are rebuilt when possible to minimize the overall environmental strain caused by the manufacture of new parts.
 - Low V.O.C. water soluble solvent is used for parts cleaning.
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- Aurora has partnered with the Association for Individual Development for recycling of aluminum, plastic wrap, cardboard, and plastic bottles. This program provides work for AID clients who are developmentally challenged adults.
- Equipment Services switched to a paperless repair order system which has eliminated paper repair order forms and waste.
- The City of Aurora implemented a Green Fleet Policy which seeks to reduce total vehicle emissions by 25% by the year 2020.
- All new vehicle purchases are reviewed so that the most efficient model for the divisional need is purchased.

Street Maintenance

Street Cleaning: Streets throughout the City of Aurora are swept on a regular basis, in order to minimize pollutant concentrations in storm water run off from the public right of way. The City of Aurora maintains a street sweeping schedule as follows:

1. Downtown Streets: 5 nights per week.
2. Major Roads outside of the Downtown area: once per month
3. Residential Streets: once every 2 months

Road Salt Application and Storage: The City of Aurora's salt inventory is contained under roof. The facilities are designed with an impervious surface to prevent pollutant export into the ground water. Surface run off immediately adjacent to the facilities is drained to the sanitary sewer and is conveyed to the Fox Metro WRD for treatment.

Road salt applicators are calibrated throughout the winter season in order to minimize the amount of de-icing agents required for maximum effectiveness.

Refuse from tree removal and trimming activities is double ground and recycled as landscape mulch. The landscape mulch is offered to the public at no charge.

Parks Department

The City of Aurora's Parks Department focuses on maintaining the City's parks and green spaces in such a fashion as to not only minimize the effects of fertilization and pest management on storm water quality, but to positively impact the storm water runoff entering our streams and aquifers.

Some Best Management Practices currently being implemented by the Parks Department include:

- Mulching all grass clippings. By fitting all mowers with mulching blades, the Parks Department has realized a dramatic reduction in the amount of nitrogen applied to the grassed areas. The Parks Department maintains 300 acres of grassed areas using only 2 pallets of fertilizer per year.
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- Golf Course maintenance uses significantly less fertilizer than the industry standard fertilization rates.
- Wherever possible, buffer zones consisting of naturalized plantings are developed around ponds and waterways.
- Soil testing is performed on a regular basis in order to avoid over-fertilizing grassed areas.
- Integrated Pest Management techniques are implemented in order to safely and effectively control pests while minimizing the amounts of inorganic pesticides applied to the open areas. Employees involved with supervising the application of pesticides are professionally trained, licensed pesticide applicators.

Additional measures taken by Parks Dept. since last permit process.

- All landscape waste produced that is too small to grind and use as mulch is collected in a landscape waste dumpster and removed from property weekly. Ex: sticks, acorns, branches, flowers, grass clippings, leaf debris. In addition, acorns are harvested by a local nursery that specializes in hardwood trees. The nursery then supplies the Parks Department with oak tree saplings for planting.
- Equipment Technicians collect fluids during equipment maintenance to be picked up and recycled by a licensed vendor.
- In addition to annual soil tests, regular water quality tests of water features bi-annually have been performed to monitor bicarbonates and nutrient levels. A biological digestion pilot program has been developed and planned for implementation for 2015. The program would attempt to reduce organic solids in the lakes managed by the Park Department. If successful the program could reduce organic sediments by 6 to 12 inches in the lakes.
- Grease from clubhouse operations is collected to be picked up for recycling by a licensed vendor.
- Continued experimental use of biological controls on pest problems in turf areas. The use of "restricted-use" pesticides is not currently being done. This lowers our hazard risk by using safer products.

ZOO

- Converting garbage cans in zoo to trash compacting units that will require less dumping of containers (saving gas in vehicle, thereby reducing CO emissions), and saving space when emptying, because garbage will be compacted by 75%. In addition, these Big-Belly Solar trash compactors notify Parks Department personnel when they are full, significantly reducing labor and vehicle fuel and maintenance costs previously required to manually check the containers.

Water and Sewer Maintenance Division

The City of Aurora's Water and Sewer Maintenance Division cleans approximately 110,000 feet of sanitary sewers per year. The City's in-house sewer cleaning consists primarily of high pressure water jetting along with vacuum suction cleaning.

The Water and Sewer Maintenance Division cleans, replaces or repairs approximately 400 catch basins a year. Catch basin cleaning is accomplished by using Vac-jet trucks to remove the silt and debris.

Section C Results of information collected and analyzed

The Fox River Study Group (FRSG) has developed a complex water quality computer model of the Fox River along with some of the larger tributary streams. The model has been calibrated with water quality data collected on behalf of the FRSG by the Illinois State Water Survey, the Fox Metro Water Reclamation District, and the Fox River Water Reclamation District. Data and modeling reports generated by the FRSG can be found at <http://ilrdss.sws.uiuc.edu/fox/>.

Section D Summary of Stormwater Activities Planned for 2015

1. Public Education and Outreach

- Perform education and outreach to educate residents on the City's Green Infrastructure CSO Control Program
- Speak at the Illinois Rivers Association's annual convention
- Provide educational information as part of the City's Rain Barrel Program
- Maintain and update the stormwater related web pages on the City's web site
- Publish one article in the Aurora Borealis or other local publication

2. Public Participation/Involvement

- The City will continue to support the Fox River Study Group.
- Support and give guidance to the Mayor's Sustainability Advisory Committee
- Participate in the **Policy Working Group of the Nutrient Loss Reduction Strategy (NLRS)**. The City of Aurora has accepted a request by the Illinois Environmental Protection Agency to assist in developing policy that will guide the implementation of the NLRS.

3. Illicit Discharge and Detection

- Continue to actively enforce the City's ordinances prohibiting harmful discharges into the City's stormwater system. The City is currently developing a GIS data base that will assist in illicit discharge investigation and emergency spill response.
- Inspect 10% of the City's storm outfalls.

4. Construction Site Runoff Control

- Continue to administer the Stormwater Ordinance

5. Post Construction Runoff Control

- Continue to enforce the Kane County Stormwater Ordinance

6. Pollution Prevention/Good Housekeeping

- Construct bioinfiltration basins at 5 street intersections on the City's west side.
- Give presentations to City Maintenance Staff on the benefits of green infrastructure.
- Evaluate performance of existing infiltration BMP's
- Continue with operational activities reported under Section B above.

Section E Reliance on another Governmental Organization

The City of Aurora is not relying on another governmental organization to fulfill its MS4 NPDES Phase II permit requirements.

Section F List of 2014 Construction projects paid for by the City of Aurora

- 4th Street Storm Sewer – Evans to Marion
- Green Infrastructure for CSO Control (majority paid for by IGIG)
- Charles-Harrison Sewer Separation
- Ashland Ave. Sewer Replacement
- CSO#10 Diversion Structure & Outfall Replacement
- Basin 2 – Woodlawn Avenue and Prairie Street Sewer Separation
- Farnsworth Avenue Bridge Repair
- Farnsworth Water Main Replacement – Indian Trail to Molitor
- Galena Blvd., Elmwood Dr. & 4th St. Sanitary Sewer
- Jericho Road County Bridge Water Main Relocation
- Indian Trail Bridge Replacement
- Lincoln Ave. Emergency Sewer Repairs
- Sanitary Sewer Repairs 2014 (various locations)
- Tanglewood & Carriage Hill Water Main Replacement
- Rt 34 Grade Separation Watermain Relocation
- Arterial and Collector Pavement Resurfacing
- Neighborhood Street Improvements
- Ward Pavement Resurfacing Projects
- 2014 Sidewalk Replacement Project
- Traffic Signal Interconnect Project