



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, 2017 To March, 2018

Permit No. ILR40

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

Name: Village of Lakewood Mailing Address 1: 2500 Lake Avenue

Mailing Address 2: _____ County: McHenry

City: Lakewood State: IL Zip: 60014 Telephone: (815) 459-3025

Contact Person: Jeannine Smith Email Address: jsmith@village.lakewood.il.us
(Person responsible for Annual Report)

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

Village of Lakewood

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 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))

Jeannine Smith
Owner Signature:

5/30/18
Date:

Village of Lakewood
Printed Name:

Chief Administrative Officer
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

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.



**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
ANNUAL FACILITY INSPECTION REPORT
NPDES PERMIT FOR STORMWATER DISCHARGES
FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)**

VILLAGE OF LAKEWOOD, ILLINOIS

**2018 ANNUAL FACILITY INSPECTION REPORT
MARCH 2017 TO FEBRUARY 2018 REPORTING PERIOD**

A. CHANGES TO BEST MANAGEMENT PRACTICES

There were no changes to the Best Management Practices during the period from March 2017 to February 2018.

B. STATUS OF COMPLIANCE WITH PERMIT CONDITIONS

The Village of Lakewood committed to a number of stormwater BMPs in order to meet the requirements of the NPDES Phase II stormwater program. A Stormwater Management Plan has been developed by the Village and posted to the Stormwater section of the Village's webpage.

The following is a status report on each of the BMPs and the activities that were performed during the March 2017 to February 2018 reporting period. The status or progress for each of the measurable goals related to these BMPs is presented below.

BMP No. A1 Distributed Paper Material

Measurable Goal(s), including frequencies: Publish semi-annual stormwater pollution prevention articles in the Village newsletter.

Milestones: Publish two stormwater pollution prevention articles regarding one of the following topics: use and management of household chemicals, the hazards associated with illegal discharges and improper disposal of waste, the importance of green infrastructure, and the impact of climate change. Continue distributing stormwater quality information with each permit

application and continue tracking the number of page views on the Stormwater Management page of the Village's website.

BMP Status: The Village published an article about stormwater pollution prevention in its newsletters that highlighted the importance of natural lawn care practices and green infrastructure. The Village continues to maintain its Stormwater Management webpage, which contains information about good housekeeping practices, illicit discharges, and drainage on the East Side of the Village.

The Village has begun distributing stormwater quality information in its permit application packets and at an annual community event, such as Celebrate Lakewood, which was held on June 11, 2017. The Village has also begun tracking the number of page views on the Stormwater Management page of the Village's website using Google Analytics.

BMP No. B4 Public Hearing

Measurable Goal(s), including frequencies: Annually present the Village's stormwater management program at one board meeting to seek public input on the program.

Milestones: Present the Village's stormwater management program at one board meeting to seek public input on the program.

BMP Status: Stormwater management is a regular topic at Village Board meetings, and stormwater quality management is periodically discussed. The Village has established a Stormwater Task Force to inform the Board on stormwater issues. Task Force meetings are advertised and open to the public.

BMP No. B7 Public Reporting

Measurable Goal(s), including frequencies: Continue to inform residents of the existence of the contact number to call for reporting stormwater related issues. Identify any Environmental Justice Areas (EJA) and provide materials in other languages, if needed.

Milestones: Continue to inform residents of the contact number.

BMP Status: The Village provided a contact number (for Public Works) on its website that residents can use to report stormwater related issues, including ordinance violations, construction site soil erosion and sediment control violations, maintenance issues, and illicit discharges.

The Environmental Justice Areas (EJA) information provided by USEPA has been reviewed and the Village is determining if any environmental justice areas exist.

BMP No. C1 Storm Sewer Map Preparation

Measurable Goal(s), including frequencies: Review the storm sewer map biannually and update the map as needed.

Milestones: Review the storm sewer map and update as needed.

BMP Status: The Village updates its storm sewer system map with each new development, annexation, or drainage improvement project. The map shows the location all of the outfalls within the Village and identifies the name of all waters that receive discharges from those outfalls.

BMP No. C2 Regulatory Control Program

Measurable Goal(s), including frequencies: Enforce the Illicit Discharge and Connection Ordinance.

Milestones: Enforce the Illicit Discharge and Connection Ordinance.

BMP Status: The Village of Lakewood amended its Municipal Code on October 10, 2006 to add Chapter 28, Illicit Discharge and Connection. The ordinance prohibits non-stormwater discharges into the Village's stormwater drainage system and includes enforcement and penalties for ordinance violations. The ordinance provides the regulatory framework for the Village's illicit discharge detection and elimination program. The Village continued to enforce the ordinance.

BMP No. C4 Illicit Discharge Tracing Procedures

Measurable Goal(s), including frequencies: Annually trace all illicit discharges detected by resident reporting and by Village employees during regular system maintenance, during the application of mosquito larvicide in drainage structures, during outfall inspections or inspections of RedTail Golf Club and Turnberry Country Club.

Milestones: Continue tracing illicit discharges.

BMP Status: The Village of Lakewood found no illicit discharges through regular storm sewer maintenance, application of mosquito larvicide in drainage structures, and resident reporting.

The Village inspected the maintenance garages and storm sewer outfalls at RedTail Golf Club and Turnberry Country Club. These inspections included discussions about operational procedures, such as fertilization, which may impact the quality of stormwater runoff from the sites. 30 of 43 storm sewer outfalls were inspected.

BMP No. C5 Illicit Discharge Removal Procedures

Measurable Goal(s), including frequencies: Annually remove all illicit discharges detected by resident reporting and by Village employees.

Milestones: Continue removing illicit discharges.

BMP Status: The Village of Lakewood found no illicit discharges.

BMP No. C7 Visual Dry Weather Screening

Measurable Goal(s), including frequencies: Annually inspect outfalls along the waterways, including known outfalls to Crystal Lake within Village limits, for illicit discharges.

Milestones: Continue inspecting outfalls for illicit discharges.

BMP Status: Every known outfall to Crystal Lake within Village limits was inspected by the Village during dry weather conditions. Inspection reports were prepared to document the findings at each outfall. The Village of Lakewood found no illicit discharges.

BMP No. D1/D2/D3/D4/D6 Construction Site Stormwater Runoff Control

Measurable Goal(s), including frequencies: Enforce the County Ordinance and the Village Code.

Milestones: Continue to enforce the County Ordinance and the Village Code.

BMP Status: The Village of Lakewood adopted the McHenry County Stormwater Management Ordinance and is certified by the County to enforce the Ordinance within Village limits. The Village requires erosion and sediment control BMPs along with the control of construction material debris. They also review BMP designs prior to construction and inspect sites during construction. During the reporting period, the Village issued twenty-five

(25) stormwater management permits. Each site was inspected at least once for grading and erosion control.

On February 28, 2012, the Village adopted a BMP Ordinance which requires any development in the R-2 Zoning District resulting in 500 square feet of new impervious area to install stormwater BMPs as part of the project. During the reporting period, the Village did not issue any permits which required BMPs in the R-2 Zoning District.

Construction sites are inspected by the Village Building Inspector. On site BMP implementation issues are addressed through re-inspection.

BMP No. E2/E3/E4/E5/E6/E.7 Post-Construction Site Stormwater Runoff Control

Measurable Goal(s), including frequencies: Enforce the County Ordinance and the Village Code. The Village will begin developing and implementing a process to assess the impacts of global climate change in the design of all new and retrofit flood management projects. The Village will begin developing and implementing a process to assess the impacts of global climate change in the design of all new and retrofit flood management projects. Information on climate change may be found here: <http://www.epa.gov/climatechange/>.

Milestones: The Village will continue enforcing the County Ordinance and the Village Code. The Village will begin developing a process to assess the impacts of global climate change in the design of all new and retrofit flood management projects. Information on climate change may be found here: <http://www.epa.gov/climatechange/>.

BMP Status: The Village of Lakewood adopted the McHenry County Stormwater Management Ordinance and is certified by the County to enforce the Ordinance within Village limits. The Village requires long-term O&M plans in accordance with the County Ordinance and has the authority to ensure the long-term O&M of privately owned BMPs in cases where they are not being maintained by the property owner. The Village also reviews BMP designs prior to construction and inspect sites during and after construction. The Village will coordinate with the County on any climate change related design or retrofit requirements.

BMP No. F1 Employee Training Program

Measurable Goal(s), including frequencies: Conduct annual employee training to educate staff on prevention and reduction of stormwater pollution from municipal activities.

Milestones: Continue formal stormwater pollution prevention training for Village employees.

BMP Status: The Village of Lakewood Public Works Department currently conducts regular employee training, including new employee orientation. The Village has a DVD on Stormwater Pollution Prevention for Municipal Operations that has been incorporated into the regular training program.

In 2017, Village staff attended McHenry County public deicing program training for road salt usage and handling BMPs, and the Nunda Township training on stormwater management (April 2017).

BMP No. F2 Inspection and Maintenance Program

Measurable Goal(s), including frequencies: Continue to conduct formal maintenance and inspection and evaluate the effectiveness of the program and update as needed.

Milestones: Continue conducting formal inspection and maintenance. Review the program for effectiveness and update the program as needed. Begin training employees or contractors in the routine maintenance, repair, or replacement of green infrastructure.

BMP Status: The Village of Lakewood has incorporated a formalized program for inspection and maintenance of its facilities and infrastructure. Municipal facilities were inspected for BMP implementation and stormwater runoff concerns.

Approximately 50% of the Village's catch basins were cleaned and inspected this reporting year.

BMP No. F3 Municipal Pollution Prevention Program

Measurable Goal(s), including frequencies: Continue to conduct a formalized program to prevent stormwater pollution from municipal operations.

Milestones: Review the program for effectiveness and update as needed.

BMP Status: The Village of Lakewood evaluates the effectiveness of its Municipal Pollution Prevention Plan on an annual basis. No modifications were necessary this reporting year.

Road salt and deicers are stored in permanent structures to prevent exposure to rainfall and runoff.

Vehicle and equipment washing is performed in a designated area within the public works garage.

BMP No. F6 Other Municipal Operations Controls

Measurable Goal(s), including frequencies: The Village will begin evaluating participation in a watershed group, with the goal of participating in the future to assist with the reduction in chloride levels in receiving streams.

Milestones: Join / participate in a watershed group.

BMP Status: The Village of Lakewood joined the Kishwaukee River Ecosystem Partnership in 2016.

C. INFORMATION AND DATA COLLECTION RESULTS

The Village began implementing a Monitoring Plan in May 2010. The Monitoring Plan involves monthly sampling of Turnberry Lakes from mid-May to late-October. The drainage area to Turnberry Lakes is approximately 373 acres (12% of the Village) and is believed to be representative of the entire Village. Samples have been tested for orthophosphate, which is used as a surrogate for the Village's primary pollutant of concern – phosphorus. Sample results are available upon request.

The Village will continue to monitor levels of orthophosphate at this new location to determine if there are significant changes in levels that would merit communicating directly with the management of the Country Club.

D. SUMMARY OF NEXT REPORTING PERIOD STORMWATER ACTIVITIES

The Village plans to undertake the following activities during the next reporting period:

BMP No. A1 Distributed Paper Material

Measurable Goal(s), including frequencies: Publish semi-annual stormwater pollution prevention articles in the Village newsletter. Distribute stormwater quality information with each permit application. Annually track the number of page views on the Stormwater Management page of the Village's website.

Milestones: Publish two stormwater pollution prevention articles regarding one of the following topics: use and management of household chemicals, the hazards associated with illegal discharges and improper disposal of waste, the importance of green infrastructure, and the impact of climate change. Continue distributing stormwater quality information with each permit

application and continue tracking the number of page views on the Stormwater Management page of the Village's website.

BMP No. B4 Public Hearing

Measurable Goal(s), including frequencies: Annually present the Village's stormwater management program at one board meeting to seek public input on the program.

Milestones: Present the Village's stormwater management program at one board meeting to seek public input on the program.

BMP No. B7 Public Reporting

Measurable Goal(s), including frequencies: The Village will begin identifying environmental justice areas; if applicable, the Village will begin identifying appropriate public involvement/participation, which may include providing notices to residents written in Spanish (or other applicable language) and/or providing a translator at a public meeting held annually. Continue to inform residents of the contact number to call to report stormwater related issues.

Milestones: Identify any environmental justice areas within the Village using the website link: <http://epa.gov/environmentaljustice/>. Continue to inform residents of the contact number to call for reporting stormwater related issues.

BMP No. C1 Storm Sewer Map Preparation

Measurable Goal(s), including frequencies: Review the storm sewer map bi-annually and update the map as needed.

Milestones: Review the storm sewer map and update as needed.

BMP No. C2 Regulatory Control Program

Measurable Goal(s), including frequencies: Enforce the Illicit Discharge and Connection Ordinance.

Milestones: Enforce the Illicit Discharge and Connection Ordinance.

BMP No. C4 Illicit Discharge Tracing Procedures

Measurable Goal(s), including frequencies: Annually trace all illicit discharges detected by resident reporting and by Village employees during regular system maintenance, during the application of mosquito larvicide in drainage structures, during outfall inspections or inspections of RedTail Golf Club and Turnberry Country Club.

Milestones: Continue tracing illicit discharges.

BMP No. C5 Illicit Source Removal Procedures

Measurable Goal(s), including frequencies: Annually remove all illicit discharges detected by resident reporting and by Village employees.

Milestones: Continue removing illicit discharges.

BMP No. C7 Visual Dry Weather Screening

Measurable Goal(s), including frequencies: Annually inspect outfalls along the waterways, including known outfalls to Crystal Lake within Village limits, for illicit discharges.

Milestones: Continue inspecting outfalls for illicit discharges.

BMP No. D1/D2/D3/D4/D6 Construction Site Stormwater Runoff Control

Measurable Goal(s), including frequencies: The Village will continue to Enforce the County Ordinance. The Village will continue to require erosion and sediment control BMP's and inspect construction sites.

Milestones: Continue to enforce the County Ordinance and the Village Code.

BMP No. E2/E3/E4/E5/E6/E7 Post-Construction Site Stormwater Runoff Control

Measurable Goal(s), including frequencies: Enforce the County Ordinance and the Village Code. The Village will begin developing and implementing a process to assess the impacts of global climate change in the design of all new and retrofit flood management projects. The Village will begin developing and implementing a process to assess the impacts of global climate change in the design of all new and retrofit flood management projects. Information on climate change may be found here: <http://www.epa.gov/climatechange/>.

Milestones: The Village will continue enforcing the County Ordinance and the Village Code. The Village will begin developing a process to assess the impacts of global climate change in the design of all new and retrofit flood management projects.

BMP No. F1 Employee Training Program

Measurable Goal(s), including frequencies: Conduct annual Public Works Department employee training to educate staff on prevention and reduction of stormwater pollution from municipal activities.

Milestones: Continue annual stormwater pollution prevention training for Public Works Department employees.

BMP No. F2 Inspection and Maintenance Program

Measurable Goal(s), including frequencies: Continually inspect and maintain the storm sewer system. Evaluate the effectiveness of the maintenance program annually and update the program as needed. Begin training employees in the routine maintenance, repair, or replacement of green infrastructure.

Milestones: Continue conducting formal inspection and maintenance. Review the program for effectiveness and update the program as needed. Begin training employees or contractors in the routine maintenance, repair, or replacement of green infrastructure.

BMP No. F3 Municipal Pollution Prevention Program

Measurable Goal(s), including frequencies: Continue to conduct a formalized program to prevent stormwater pollution from municipal operations. The Village currently stores deicing material in a permanent building. The Village will continue to store deicing material in this manner.

Milestones: Continue to conduct a formalized program to prevent stormwater pollution from municipal operations. Continue to store deicing material in a permanent building.

BMP No. F6 Other Municipal Operations Controls

Measurable Goal(s), including frequencies: The Village will begin selecting a watershed group(s) in which to participate, in order to assist with the reduction in chloride levels in receiving streams within the watershed. Begin participating in watershed group(s) to reduce chloride levels in receiving streams.

Milestones: Continue watershed group participation and participating in efforts to assist with the reduction in chloride levels in receiving streams.

E. NOTICE OF RELIANCE ON ANOTHER GOVERNMENT ENTITY

The Village of Lakewood is not relying on any other government entity to satisfy permit obligations.

F. CONSTRUCTION PROJECTS CONDUCTED DURING REPORTING PERIOD

For the period from March 2017 to February 2018, the Village initiated and/or completed the following construction projects that were greater than one (1) acre in size.

- Lakewood Road Widening and Bike Path
- Pheasant Lane Roadway Improvement
- 2017 Streets Improvement Program