



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
NPDES PERMIT FOR STORMWATER DISCHARGES
FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)

**VILLAGE OF LAKEWOOD, ILLINOIS
MS4 STORMWATER MANAGEMENT PROGRAM PLAN**

The Village of Lakewood holds a General National Pollutant Discharge Elimination System (NPDES) Permit for stormwater discharges from its municipal separate storm sewer system (MS4 Permit). To protect local water quality, the MS4 Permit requires that the Village develop, implement, and enforce a stormwater management program designed to reduce the discharge of pollutants from its stormwater system to the maximum extent practicable.

Stormwater runoff from the Village flows into Crystal Lake, smaller local lakes, and through small streams tributary to the Kishwaukee River. This Stormwater Management Program Plan (Plan), along with the Notice of Intent to comply with the MS4 permit and the annual MS4 program report, is designed to provide Illinois EPA and Village residents with a better understanding of the control measures managed and implemented to meet permit requirements and water quality goals.

Program Administration

Village ordinances have been developed to provide the authority to implement MS4 Permit requirements. Village residents can provide input on this Plan and the overall MS4 program at Village Board meetings, as well as directly to the Public Works Department. An overview of the MS4 program is provided annually.

The Village's Public Works Department is the lead for MS4 program implementation. The Village evaluates the effectiveness of program implementation activities annually and provides an annual MS4 program report (Annual Facility Inspection Report) by June 1 of each year. Annual reports are kept on the Stormwater Management page of the Village's website for a period of 5 years.

The MS4 Permit requires implementation of control measures and best management practices (BMP) in six programmatic areas:

1. Public Education and Outreach
2. Public Participation/Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff Control
5. Post-Construction Runoff Control
6. Pollution Prevention/Good Housekeeping

The management practices and activities performed by the Village within each of the program areas are described below.

Public Education and Outreach

- Newsletter - The Village publishes a newsletter that is mailed to all residents. Copies of the newsletters are also available on the Village website. The newsletter periodically includes articles on topics such as: the impacts of stormwater discharges on water bodies; the steps that the public can take to reduce pollutants in stormwater runoff; and the hazards associated with illegal discharges and improper disposal of waste.
- Website - The Village maintains a website with information about the Village government, information about Village services and upcoming events. This website includes a Stormwater Management page with educational information for the public regarding stormwater pollution prevention.

Public Involvement/Participation

- Resident Reporting – Residents can report instances of pollution or suspected pollution by contacting the Village at (815) 459-3025.
- 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.
- Spring/Fall Clean-Up – The Village promotes semi-annual clean-up events that encourage residents to properly dispose of leaves, brush, and yard waste. By promoting proper waste disposal, the Village is helping to reduce pollution and improve stormwater management.

Illicit Discharge Detection and Elimination

- Village Code – Chapter 28 of the Village Code regulates the discharge of pollutants into the drainage system, prohibits illegal connections to the storm sewer system, and establishes the legal authority to ensure compliance. Chapter 11 of the Village Code prohibits commercial and non-commercial applicators from applying fertilizer containing phosphorus within the Village and establishes penalties for violations.

- Routine Inspection – The Village inspects its drainage system for evidence of illicit discharges during the course of routine system maintenance and the application of mosquito larvicide in drainage structures.
- Storm Sewer System Maps – The Village has a map showing the location of storm sewers in the R-2 Zoning District and retains a set of as-built engineering plans for each new development approved by the Village.

Construction Site Stormwater Runoff Control

- McHenry County Stormwater Management Ordinance – The Village adopted the County’s Stormwater Management Ordinance and is certified to enforce the Ordinance within Village limits. The Village requires erosion and sediment control measures along with the control of construction material debris. Proposed erosion and sediment control measures are reviewed prior to construction and inspected during construction.
- Construction sites are inspected by the Village Building Inspector. On site BMP implementation issues are addressed through re-inspection.

Post-Construction Stormwater Management for New Development and Re-Development

- McHenry County Stormwater Management Ordinance – The Village adopted the County’s Stormwater Management Ordinance and is certified to enforce the Ordinance within Village limits. The Village requires long-term operation and maintenance of stormwater facilities in accordance with the Ordinance. The design of stormwater facilities are reviewed prior to construction and inspected during and after construction.
- Stormwater Best Management Practices (BMP) Ordinance – The BMP Ordinance 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. Typical BMPs include: permeable pavement, rain gardens, and native landscaping. As part of the permitting process, the applicant must agree to maintain the proposed BMPs.

Pollution Prevention/Good Housekeeping

- Employee Training – Public Works Department staff receives periodic training in stormwater pollution prevention practices for municipal operations, as well as less formal on-the-job training.
- Street sweeping and stormwater catch basin cleaning is performed each year to prevent pollutants from entering the storm drain system, including the pavement in the Public Works yard.
- Above ground fuel tanks are double-walled for containment and fuel is stored in containers with overflow alarms.
- Road salt is stored in a covered storage building. Other materials stored outdoors are tarped when not in use.
- Equipment maintenance and cleaning is performed inside the Public Works facility where floor drains are connected to the sanitary sewer system, rather than performed outdoors.

Water Quality Monitoring

- The Village began implementing a Monitoring Plan in May of 2010. The Monitoring Plan involves monthly sampling of Turnberry Lakes from mid-May to late-October. Samples are tested for

orthophosphate, which is used as a surrogate for the Village's primary pollutant of concern – phosphorus. Sample results are available upon request.

Contacts and Additional Information

To report water quality issues within the Village, or for questions or additional information on this Plan or implementation of the MS4 Program, contact the Public Works Department at (815) 459-3025.

Additional MS4 Permit program information can be found at Illinois EPA's MS4 webpage:

<https://www2.illinois.gov/epa/topics/forms/water-permits/storm-water/Pages/ms4.aspx>