



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, 2016 To March, 2017

Permit No. ILR40 0370

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

Name: Village of Lake Zurich Mailing Address 1: 505 Tesler Road
Mailing Address 2: County: Lake
City: Lake Zurich State: IL Zip: 60047 Telephone: (847) 540-1696
Contact Person: Michael Brown Email Address: mike.brown@lakezurich.org
(Person responsible for Annual Report)

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

State of Illinois County of Lake
Village of Lake Zurich

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))


Owner Signature:

Michael J Brown

Printed Name:


Date:

Public Works Director

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

IL 532 2585

WPC 691 Rev 6/10

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.



At the Heart of Community

PUBLIC WORKS Department

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May 24, 2017

Illinois Environmental Protection Agency
Water Pollution Control
Compliance Assurance Section #19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Re: NPDES Phase II – Year 14 Annual Report
Village of Lake Zurich MS4
Permit No. ILR40-0370

To Whom It May Concern:

On behalf of the Village of Lake Zurich, please find attached a completed IEPA Annual Facility Inspection Report for Storm Water Discharges from Municipal Separate Storm Sewer Systems (MS4) with supplemental information.

If you should have any questions or require additional information, please contact me at (847) 540-1696 or mike.brown@lakezurich.org.

Sincerely,
Village of Lake Zurich

Michael J. Brown
Director of Public Works

cc: Marcy Knysz, Manhard Consulting (900 Woodlands Parkway, Vernon Hills, IL 60061)

Village of Lake Zurich
ILR40-0370

MS4 Annual Facility Inspection Report

**Illinois Environmental Protection Agency National
Pollutant Discharge Elimination System, Phase II**

Permit Year 14: March 2016 to February 2017



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Part A. MS4 Changes to Best Management Practices, Year 14

Information regarding the status of all of the BMPs and measurable goals described in the MS4's SMPP is provided in the following table.

Note: **X** indicates BMPs that were implemented in accordance with the MS4's SMPP
✓ indicates BMPs that were changed during Year 14

Year 14 Village of Lake Zurich	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
	A.3 Public Service Announcement
X	A.4 Community Event
X	A.5 Classroom Education Material
X	A.6 Other Public Education
B. Public Participation/Involvement	
	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
X	B.4 Public Hearing
	B.5 Volunteer Monitoring
X	B.6 Program Coordination
X	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
X	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 14 Village of Lake Zurich	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

No changes were made during Year 14.

Part B. MS4 Status of Compliance with Permit Conditions, Year 14

Stormwater Management Activities, Year 14

The stormwater management activities that the Village of Lake Zurich performed during Year 14, including the Village's BMPs and measurable goals, are described in detail in the Village's Stormwater Management Program Plan (SMPP). A brief summary of the status of the Village's stormwater management program, as of the end of Year 14, is provided below. Documentation of the Village's implementation of the SWMP is provided in Part C.

In addition to the efforts of the Village, the Lake County Storm Water Management Commission (SMC) performs activities related to each of the six minimum control measures on behalf of all MS4s in the County. These BMPs, implemented at the county level, make significant strides in achieving the statutory goal of reducing the discharge of pollutants to the maximum extent practicable as watershed boundaries are not constrained by municipal borders.

A. Public Education and Outreach

The Village of Lake Zurich utilizes a variety of methods to educate and provide outreach to the public about the impacts of storm water discharges on waterbodies and the steps that the public can take to reduce pollutants in storm water runoff. Outreach publications includes Village contact information to encourage residences to report environmental concerns.

Distribution of Educational Materials

Educational materials are distributed in the Village newsletter, on the Village website, at take-away racks in Village offices, at outreach events, and at scheduled meetings with the general public. Topics include:

- Storm water BMPs including cost-benefits and implementation guidance.
- Construction site activities (soil erosion and sediment control BMPs).
- Effective pollution prevention measures regarding storage and disposal of fuels, oils, and similar materials used in the operation of, or leaking from vehicles and other equipment.
- Effective pollution prevention measures regarding the use of soaps, solvents, or detergents used in outdoor washing of vehicles, furniture, and other property, paint and related décor.
- Refuse, recycling, and yard waste.
- Lawn and garden care.
- Winter de-icing material storage and use.
- Green infrastructure strategies such as green roofs, rain gardens, rain barrels, bio-swales, permeable piping, dry wells, and permeable pavement.
- The potential impacts and effects on storm water discharge due to climate change <http://epa.gov/climatechange>.
- Hazards associated with illegal discharges and improper disposal of waste and the manner in which to report such discharges.
- Proper hazardous waste use and disposal, special collection of household products, and programs organized by the Solid Waste Agency of Lake County (SWALCO).

- Information on the Village's MS4 Program, including the SWMP, Notice of Intent, and annual reports.

Measurable Goals

1. Distribute educational materials in the Village newsletter, on the Village website, at take-a-way racks in Village offices, at outreach events, and at scheduled meetings with the general public.
2. Maintain and update the portion of the website dedicated to storm water.
3. Post the Village's SWMP, Notice of Intent, current Annual Report, and the previous 5 years of Annual Reports on the Village website.

Household Hazardous Waste Program

The average garage contains a lot of products that are classified as hazardous wastes, including paints, stains, solvents, used motor oil, pesticides, and cleaning products. While some household hazardous waste may be dumped into storm drains, most enters the storm drain system as a result of outdoor rinsing and cleanup. Improper disposal of household hazardous waste can result in acute toxicity to downstream aquatic life. The desired neighborhood behavior is to participate in household hazardous waste collection days, and to use appropriate pollution prevention techniques when conducting rinsing, cleaning, and fueling operations.

For household products that cannot go into the curbside recycling program or in landfills, there are several ways to dispose of these materials through programs organized by SWALCO. Lake Zurich is a member community of this regional, intergovernmental agency. As a member, Village residents are provided with a variety of waste management services, programs, and resource materials that include collections for special materials that are not allowed as part of curbside recycling or should not go into the garbage due to toxicity or recoverability (reuse and recycling).

Measurable Goals

1. Support and publicize SWALCO efforts.
2. Continue the Village's special collection efforts and community programs.

Residential Recycling

Recycling is an effective means of achieving pollution prevention goals. Recycling is a series of activities that includes collecting recyclable materials that would otherwise be considered waste, sorting, and processing recyclables into raw materials such as fibers, and manufacturing raw materials into new products. Trash and floating debris in waterways can become significant pollutants and potentially pose a threat to wildlife and human health (e.g., choking hazards to wildlife and bacteria to humans). For residents, the most convenient kind of collection is curbside collection. The Village offers curbside refuse collection twice a week for its residents. Waste Management provides every single-family home with a 96-gallon container for recycling. The recyclables accepted include newspaper, mixed paper, corrugated cardboard, and mixed recyclables such as glass bottles and jars, steel/tin/bi-metal cans, aluminum cans/foils/tins, and various plastic containers.

Measurable Goals

1. Continue to offer and promote curbside waste and recycling collection for residents.

B. Public Participation/Involvement

The Village's Public Participation and Involvement Program allows input from citizens during the development and implementation of the SWMP.

Public Review

The Village conducts one public meeting annually to present the annual report to the Village Board during an open meeting. This public meeting allows the public to provide input as to the adequacy of the Village's MS4 Program. Comments are evaluated for inclusion and incorporated into the next revision of the SMPP as appropriate. The meeting is typically part of a regular Village Board meeting. Public notification about the meeting content complies with Illinois' public notice requirements.

Measurable Goals

1. Present each year's Annual Report to the Village Board during an open meeting and provide for input from the public as to the adequacy of the SMPP.
2. Evaluate and incorporate comments received from the Village Board and the public.

Complaints, Suggestions, and Requests

The Village encourages the submission of complaints, suggestions, and requests related to its Storm Water management program. Calls are screened, logged, and routed to the appropriate individual for action.

The Village website contains page titled "Report-Pay-Apply" with links to report complaints and provide feedback.

Measurable Goals

1. Encourage the submission of complaints, suggestions, and requests related to the SMPP by publicizing contact information on educational materials and the Village website.
2. Provide methods for residents, businesses, and visitors to communicate their concerns.
3. Respond to concerns in a timely fashion.

Watershed Planning and Stakeholders Meetings

The Village of Lake Zurich participates (and encourages the participation of local stakeholders) in local program events and other sponsored watershed planning events. The Village attends these events and will adopt watershed plans per the direction and in coordination with the IEPA.

Measurable Goals

1. Participate in a local watershed group that addresses issues associated with the use of chlorides (i.e. road salt).

C. Illicit Discharge Detection and Elimination

Storm Sewer System Map

As required by the NPDES ILR40 permit, the Village developed a map of the municipal storm sewer system identifying the location of all outfalls, and the names and location of all waters of the United States that receive discharges from those outfalls. The storm sewer system map is meant to demonstrate a basic awareness of the intake and discharge areas of the system. It is needed to help determine the extent of discharged dry weather flows, the possible sources of the dry weather flows, and the particular water bodies these flows may be affecting. The final product is in a Geographic Information System (GIS) database. The outfall map is revised continuously throughout the year to incorporate permitted outfalls associated with new developments.

Measurable Goals

1. Maintain the Village's storm sewer system map, updating annually.

Regulatory Authority

The NPDES ILR40 permit requires the Village to institute an ordinance that prohibits non-Storm Water discharges into their MS4 to the extent allowable under current State, Tribal, and local law. Effective implementation of an Illicit Discharge Detection and Elimination (IDDE) program requires adequate legal authority to remove illicit discharges and prohibit future illicit discharges. This regulatory authority is achieved through the Village's Municipal Code, specifically Title 7, Chapter 5, Article B – Discharges into Storm Drainage System. Additionally, the IEPA has the regulatory authority to control pollutant discharges and can take the necessary steps to correct or remove an inappropriate discharge over and above the Village's jurisdiction.

Measurable Goals

1. Enforce the Village's Municipal Code

Lake County Watershed Development Ordinance

Several provisions of the Lake County WDO prohibit illicit discharges as part of the development process. Regulated developments are also required to meet the soil erosion and sediment control (SESC) standards of the WDO. The Village has adopted the Lake County WDO and is currently a Certified Community for the review, permitting, inspection, and enforcement of the provisions of the WDO.

Measurable Goals

1. Adhere to the requirements of the WDO.

Visual Dry Weather Inspection Program

Inspecting storm water outfalls during dry-weather conditions reveals whether non-storm water flows exist. If non-storm water flows are observed, they can be screened and tested to determine whether pollutants are present. Dry weather discharges are typically composed of sewage from leaking pipes or septic systems; wash water from various residential, commercial, and industrial activities and operations; liquid wastes such as oil, paint, and process water; tap water from leaks in the water supply system; landscape irrigation; and groundwater. Water quality testing is used to conclusively identify flow types found during dry weather inspections. Testing can distinguish

illicit flow types (e.g., sewage, liquid wastes, commercial/industrial wash water) from cleaner discharges (e.g., tap water, landscape irrigation, and groundwater).

Measurable Goals

1. Conduct outfall inspections annually during periods of dry weather.
2. Follow up on any observations of dry weather flow.

Public Notification

The Village provides educational material regarding illegal dumping of trash and used materials. Residents are encouraged to report illegal dumpers by calling the Public Works Department. The Village publicizes the Public Works Department phone number for the public to report illicit discharges and illegal dumping on outreach material and on the Village website.

Some clues that can help citizens identify illegal dumpers include:

- Illegal dumping often occurs late at night and before dawn.
- There is often no company name on the construction vehicles or equipment.
- The construction activity occurs on a site with no company advertising sign.
- There is no construction entrance adjacent to the roadway (an area of large stone and gravel placed to keep mud off streets).

Measurable Goals

1. Publicize the Public Works Department phone number on outreach material and on the Village website.
2. Provide educational material on illicit discharges and illegal dumping on the Village website.

D. Construction Site Runoff Control

By many accounts, the most environmentally dangerous period of development is the initial construction phase, when land is cleared of vegetation and graded to create a proper surface for construction. The removal of natural vegetation and topsoil makes the exposed area particularly susceptible to erosion.

Regulatory Authority

The Village has adopted the Lake County WDO and is currently a Certified Community for the review, permitting, inspection, and enforcement of the provisions of the WDO in both counties. The Village's Village Code meets the minimum requirements of the WDO and any project within the corporate limits must meet these requirements. The purpose of these regulations is to establish reasonable rules and regulations for development to ensure that new development does not increase existing storm water problems or create new ones.

Applicants submit the completed application forms and supporting documentation to the Village for review and comment. After all applicable provisions of the Village Code have been addressed, a permit is issued. Each permit lists any additional conditions that are applicable to the development.

The Village Code is the regulatory mechanism that requires the use of SESC's on development sites. At a minimum, these standards apply to any development project that hydrologically disturbs 5,000 square feet of land or more. In addition, applicants that hydrologically disturb greater than 1-acre are required to seek coverage under the NPDES Construction Site General Permit ILR10 by filing a NOI with the IEPA. A copy of the NOI must be submitted to the Village prior to commencement of any site work, including demolition. During construction, applicants are required to submit to the IEPA Incidence of Noncompliance (ION) forms, as necessary. After the site is substantially stabilized, the applicant is required to submit a Notice of Termination (NOT) to the IEPA.

Site Plan Review

The Community Development Department is responsible for the review, approval, and issuance of permits for all construction projects. The Village reviews plans in accordance with the Village Code. Elements reviewers look for in an effective site construction SESC plan include:

- Minimize needless clearing and grading.
- Protect waterways and stabilize drainage ways.
- Phase construction to limit soil exposure.
- Stabilize exposed soils immediately.
- Protect steep slopes and cuts.
- Install perimeter controls to filter sediments.
- Employ advanced sediment settling controls.

Measurable Goals

1. Review site plans and issue permits in accordance with the Village Code.
2. Ensure construction sites needing coverage under the NPDES Construction Site Storm Water ILR10 permit obtain coverage prior to issuance of a Watershed Development Permit.

Construction Site Inspections

Village representatives are authorized to enter and inspect facilities subject to regulation as often as may be necessary to determine compliance with the Municipal Code. All Storm Water BMPs are inspected for effectiveness and structural integrity on a regular basis for the life of the construction project. Inspection and maintenance of BMPs continue until all construction activities have ended and all areas of a site have been permanently stabilized. During each inspection, the Village Inspector documents whether the BMP is performing correctly, any damage to the BMP since the last inspection, and recommendations for repairing the BMP if damage has occurred.

The Village notifies the permittee when the site fails to comply with the site development plan. Where it is found by inspection that conditions are not substantially as stated or shown in the approved plan, the Village may stop further work until approval is obtained for a revised site plan conforming to the existing conditions. Plans for all work contemplated by the site plan, bearing the stamp of approval of the Village, are required to be maintained at the site during progress of the work. Until the final inspection is made, a sign issued by the Village indicating

permission to work has been granted by the Village is required to be prominently displayed at the site, to be visible from the street. The frequency of inspections varies depending on the scope and intensity of the development.

Measurable Goals

1. Document and track site inspections on development sites. Keep files for 5 years.

E. Post-Construction Runoff Control

The management of storm water runoff from sites after the construction phase is vital to controlling the impacts of development on urban water quality. The increase in impervious surfaces such as rooftops, roads, parking lots, and sidewalks due to land development can have a detrimental effect on aquatic systems. Runoff from impervious areas can also contain a variety of pollutants that are detrimental to water quality, including sediment, nutrients, road salts, heavy metals, pathogenic bacteria, and petroleum hydrocarbons.

Regulatory Program

The Village Code establishes the minimum storm water management requirements for development, including requirements for post-construction runoff control. The Village Code requires all applicants to adopt storm water management strategies for controlling post-construction storm water runoff on development sites. All development must adopt storm water management strategies that minimize increases in storm water runoff rates, volumes, and pollutant loads from development sites. Proposed storm water management strategies must address the runoff volume reduction requirements and include appropriate storm water BMPs to address the other applicable post-construction runoff control requirements of the Village Code. Applicants are also required to adopt strategies that incorporate storm water infiltration, reuse, and evapotranspiration of storm water into the project to the maximum extent practicable. Types of techniques include green roofs, rain gardens, rain barrels, bio-swales, permeable piping, dry wells, and permeable pavement.

The Village Code requires that maintenance plans be developed for all storm water management systems designed to serve major developments. Such maintenance plans must include the following:

- Description of all maintenance tasks.
- Identification of the party or parties responsible for performing such maintenance tasks.
- Description of all permanent maintenance easements or access agreements, overland flow paths, and compensatory storage areas.
- Description of dedicated sources of funding for the required maintenance.

The Village Code also requires that all storm water management systems be located within a deed or plat restriction to ensure that the system remains in place in perpetuity and that access to the system is maintained in perpetuity for inspection and maintenance purposes.

Measurable Goals

1. Document BMPs approved on development sites.
2. Ensure maintenance plans are prepared for all storm water management systems as required by the Village Code.

Post Construction Inspections

Regular inspection is essential to maintain the effectiveness of post-construction storm water management facilities. Inspection and maintenance of facilities can be categorized into two groups: (1) expected routine maintenance, and (2) non-routine maintenance (i.e., repairs). Routine maintenance refers to checks performed on a regular basis to keep the facility in good working order and aesthetically pleasing. In addition, routine inspection and maintenance is an efficient way to reduce the chance of polluting storm water runoff by finding and correcting problems before the next rain. The failure of structural storm water facilities can lead to downstream flooding, causing property damage, injury, and even death.

The Village attempts to inspect approximately 20% of all public and private storm water management facilities a year; resulting in a 5-year inspection interval. Observed erosion, seeding/reseeding needs, and slope stabilization needs are documented. During the inspections, staff identify facilities that would most benefit from a retrofit or other enhancements. SMC's Streambank/Shoreline Stabilization Manual is used as a starting point in choosing the appropriate BMP for remediation activities. Impacts and effects due to climate change are taken into considered when making recommendations. A master list of storm water management facilities is maintained and updated on a regular basis.

Measurable Goals

1. Maintain an inventory of all public and private storm water management facilities.
2. Inspect 20% of all public and private storm water management facilities on an annual basis. Recommend remedial actions as appropriate.
3. Evaluate the feasibility of retrofits and enhancements to storm water management facilities.

F. Pollution Prevention/Good Housekeeping

The Village is responsible for the care and upkeep of Village-owned property, municipal roads, and maintenance yards. Many maintenance activities are performed by Village staff; however, contractors are employed to perform specific activities. The Village requires documentation that appropriate training has been completed annually, for all contractors retained to manage or carry out routine maintenance, repair, or replacement of public surfaces in current green infrastructure or low impact design techniques applicable to such projects. Contractors are responsible for providing training to their employees for projects which include green infrastructure or low impact design techniques and providing proof of such training to the Village.

The Village maintains compliance with permit requirements by incorporating pollution prevention and good housekeeping storm water quality management into day-to-day operations. On-going education and training is provided to staff to ensure they have the knowledge and skills necessary to perform their functions effectively and efficiently. The Village implements the following programs to fulfill the requirements of this minimum control measure.

Catch Basin/Inlet Cleaning

Catch basins are chambers or sumps that allow surface water runoff to enter the storm water conveyance system. Many catch basins are below the invert of the outlet pipe and are intended to retain coarse sediment. By trapping sediment, the catch basin prevents solids from clogging the storm sewer and being washed into receiving waters. Catch basins are cleaned periodically

to maintain their ability to trap sediment and consequently, their ability to prevent flooding. The removal of sediment, decaying debris, and highly polluted water from catch basins has aesthetic and water quality benefits, including reducing foul odors, reducing suspended solids, and reducing the load of oxygen-demanding substances that reach receiving waters. Generally, catch basins are cleaned if the depth of deposits is greater than or equal to one-third to depth from the basin to the invert of the lowest pipe or opening into or out of the basin. Catch basins are cleaned either manually or by specially designed equipment. Before any materials can be disposed, it may be necessary to perform a detailed analysis to characterize the waste. However, material removed from catch basins is typically stored at the Village's maintenance yard and disposed in a conventional landfill. The Department of Public Works is currently responsible for administering the Villages Catch Basin/Inlet Cleaning BMP.

The Village cleans catch basins and inlets on an as needed basis (i.e. complaints, standing water, etc.). Catch basins found to have structural deficiencies are reported to the Director of Public Works. Necessary remedial actions are completed by a contractor or incorporated into a capital project.

Measurable Goals

1. Clean catch basins and inlets on an as needed basis.
2. Report catch basins found to have structural deficiencies.
3. Complete necessary repairs.

Public Works Washing Station Facility

Vehicle and equipment wash waters have the potential to result in high loads of nutrients, metals, and hydrocarbons in receiving waters. The Village currently utilizes a triple catch basin connected to the sanitary sewer for washing vehicles and equipment at the Public Works Facility. The Department of Public Works maintains the triple catch basin.

Measurable Goals

1. Ensure Village vehicles are washed in the proper location.
2. Complete routine maintenance of the triple catch basin.

Street Sweeping

The Village employs street sweeping on a regular basis to minimize pollutant export to receiving waters. These cleaning practices are designed to remove from road and parking lot surfaces sediment, debris and other pollutants that are potential source of pollution impacting urban waterways. Recent improvements in street sweeper technology have enhanced the ability of present day machines to pick up the fine-grained sediment particles that carry a substantial portion of the storm water pollutant load. Street sweeping is used during the spring snowmelt to reduce pollutant loads from road salt and to reduce sand export to receiving waters. The Department of Public Works is responsible for the street sweeping program for the Village.

Measurable Goals

1. Maintain current street sweeping practices.

Landscape Maintenance

The Department of Public Works is responsible for maintenance of landscaping at municipal facilities, along municipal roads, and in maintenance yards. The Department of Public Works is also responsible for the Village's program for application of pesticides and herbicides. The use of pesticides and fertilizers are managed in a way that minimizes the volume of storm water runoff and pollutants.

Measurable Goals

1. Manage the use of pesticides and fertilizers in a way that minimizes the volume of storm water runoff and pollutants.

Snow Removal and Ice Control

The Village of Lake Zurich's Department of Public Works handles snow and ice removal on Village Roadways. During snow removal and ice control activities, salt, de-icing chemicals, abrasives, and snow melt may pollute storm water runoff. To address these potential pollutants, the following procedures for the "winter season" are implemented.

Roadway Ice Control: Use the minimal amount of salt, de-icing chemicals, and additives necessary for effective control. Prior to November 1, preparation work to obtain seasonal readiness is completed. These tasks include installing, inspecting, re-conditioning, testing, and calibrating of spreaders and spinners per the National Salt Institution Application Guidelines. Driver training is also conducted annually for all drivers. The completion of these preparatory tasks helps to ensure that only the necessary level of salt is applied.

Snow Plowing: Snow plowing activities direct snow off the pavement and onto the parkways. This reduces the amount of salt, chemical additives, abrasives, or other pollutants that go directly into the storm sewer system.

Participation in Watershed Group: Village staff participate in a watershed group(s) organized to implement control measures which will reduce the chloride concentration in receiving streams in the watershed.

Salt Delivery and Storage: Steps are taken to ensure that the delivery, storage, and distribution of salt does not pollute storm water runoff. The floor of the enclosed salt storage building, and adjacent receiving/unloading area is constructed of impervious material. The limits of the salt piles are pushed back away from the door opening to minimize potential illicit runoff.

Measurable Goals

1. Continue to implement the pre-season procedures related to roadway ice control, snow plowing, participation in watershed groups, driver training, and management of salt delivery and storage.

Vehicle and Equipment Maintenance

Vehicle and equipment fueling procedures and practices are designed to minimize or eliminate the discharge of pollutants to the storm water management system, including receiving waters. The following standard procedures are implemented.

Vehicle Fueling: Vehicle fueling area contains two twin nozzle pumps with two below ground storage tanks. One (1) 4,000 gallon gasoline tank and one (1) 4,000 gallon ultra-low sulfur diesel tank. Both tanks have complete leak detection systems including interstitial monitoring alarms. The site also contains an observation monitoring well.

Waste Oil: Used motor oil, transmission fluids, gear lubes, brake fluids and other vehicle fluids (except antifreeze) are collected and stored in approved containers. The waste oil tank is emptied by a private company and removed for recycling.

Antifreeze: Used antifreeze is stored in a 150-gallon tank. It is emptied by a private company and removed for recycling.

Batteries: Used batteries are stored in the vehicle maintenance area and are removed for recycling weekly by a private battery supplier.

Tires: Used tires are picked up and recycled by a local vendor as accumulated. Tires are stored outside at the Village's garage until picked up for disposal.

Other: All air conditioning work is done by the Village employees with Freon handling and recovery certifications. All Freon is recovered and recycled in an approved enclosed A/C machine. Cleaning solvents are contained within an enclosed tank and maintained by the Village.

Measurable Goals

1. Continue to implement the procedures for vehicle and equipment maintenance.

Waste Management

Waste Management consists of implementing procedural and structural practices for handling, storing, and disposing of wastes generated by Village maintenance activity. This helps prevent the release of waste materials into receiving waters. Waste management practices include removal of materials such as asphalt and concrete maintenance by-products, excess earth excavation, contaminated soil, hazardous wastes, sanitary waste, and material from within triple basins. The following standard procedures are implemented.

Spoil Stock Pile: Asphalt and concrete maintenance by-products and excess earth excavation materials are temporarily stored in the stock pile in the maintenance yard. Attempts are made to recycle asphalt and concrete products prior to storage in the spoil stock pile. Licensed waste haulers are contracted to remove and dispose of the contents at a licensed landfill. Surface runoff from this area is largely contained.

Contaminated Soil Management: Contaminated soil/sediment generated during an emergency response or identified during construction activities is collected and management for treatment or disposal. Attempts are made to avoid stockpiling of the contaminated soil.

Hazardous Waste: All hazardous wastes are stored in sealed containers constructed of compatible material and labeled. The containers are located in non-flammable storage cabinets or on a containment pallet. These items include paint, aerosol cans, gasoline, solvents, and other hazardous wastes. Care is taken to avoid overfilling containers. Paint brushes and equipment used for water and oil-based paints are cleaned within the designated cleaning area. The Department of Public Works maintains oversight of hazardous waste generated by the Village. Containerized hazardous waste materials are disposed of or recycled through a contract arrangement with a third party hazardous waste disposal firm.

Measurable Goals

1. Properly handle, store, and dispose of wastes generated by Village maintenance activities.

Spill Response Plan

Spill prevention and control procedures are implemented wherever non-hazardous chemicals and/or hazardous substances are stored or used. These procedures and practices are implemented to prevent and control spills in a manner that minimizes or prevents discharge to the storm water drainage system and receiving waters.

The following general guidelines are implemented to prevent spills:

- Ensure all hazardous substances are properly labeled.
- Store all hazardous wastes in sealed containers constructed of compatible material and labeled.
- Locate items, such as paint, aerosol cans, gasoline, solvents and other hazardous wastes, in non-flammable storage cabinets or on a containment pallet.
- Do not overfill containers.
- Provide secondary containers when storing hazardous substances in bulk quantities (greater than 55 gallons).
- Dispense and/or use hazardous substances in a way that prevents release.

Non-Hazardous Spills/Dumping: Non-hazardous spills typically consist of an illicit discharge of household material(s) into the street or storm water management system. Upon notification or observance of a non-hazardous illicit discharge, the Public Works Department or Police Department implement the following procedure:

- Sand bag the receiving inlet to prevent additional discharge into the storm sewer system.
- Check structures (immediate and downstream) and if possible, vacuum materials out. Jet structure to dilute and flush the remaining unrecoverable illicit discharge.
- Clean up may consist of applying "Oil Dry" or sand and then sweeping up the remnant material.
- On-site personnel document the location, type of spill, and action taken.
- If a person is observed causing an illicit discharge, the Department Public Works is notified and appropriate citations issued.

Hazardous Spills: Upon notification or observance of a hazardous illicit discharge, the Public Works Department or Police Department implement the following procedure:

- Call 911, explain the incident. The Fire Department responds.
- Village Police provide emergency traffic control, as necessary.
- The Fire Department evaluates the situation and applies "No Flash" or "Oil Dry" as necessary.

- The Fire Department's existing emergency response procedure for hazardous spill containment clean-up activities is followed.
- On-site personnel document the location, type of spill, and action taken.

Measurable Goals

1. Implement the Spill Response Plan outlined above.

Stormwater Management Program Assessment, Year 14

In Year 14, the Village of Lake Zurich performed an assessment of its SMPP and adherence/implementation of the document. The Village was committed to following the SMPP and implementing it accordingly. In summary:

- The Village continues to work towards improvements in stormwater maintenance utilizing and fostering relationships with local developers and homeowners as well as watershed groups, the QLP and other regional groups, and state and federal agencies.
- The Village continues to implement its SMPP via various studies and projects to improve the stormwater conveyance and storage within the Village. Lake Zurich is committed to improve protection to property and improvements to water quality within the Village and Lake County.
- The Village of Lake Zurich continues to enforce standards of the Village Code and the WDO for all applicable developments within its jurisdiction.
- Lake Zurich continues to train employees in proper BMPs and the importance of stormwater and water quality.

Part C. MS4 Information and Data Collection Results, Year 14

Data Collection, Year 14

Information and data tracked by the Village during the permit year as part of its SMPP is provided on the following pages.

Lake Zurich MS4 Log Book
Public Education and Outreach

Permit Year 14

DATE	Activity	Attendance / Quantity
12/1/2016	Screenshot: Village of Lake Zurich Storm Water Management page.	Village-wide
12/1/2016	Stormwater Related Brochures and Materials Available to Public at Community Services. Refreshed annually. Checked at various times throughout the year. Pamphlets are displayed at Community Services with information on building permits.	Village-wide
4/29/2016	Arbor Day Proclamation.	Village-wide
4/1/2016	Publish April 2 Brush Clearing in Kuechmann Park for for the Ancient Oaks Foundation. Publish Spring Cleaning Tips including keeping construction materials inside and cleaning up after pets. Publish information on the effects of Phosphorus fertilizers.	Village-wide
5/13/2016	Village hosted a class discussion and information with local junior high students about the basics of stormwater. Stormwater pollution and its effects on the community were worked into the week's curriculum.	47 students, 2 teachers, 1 Village official, 1 consultant

Lake Zurich MS4 Log Book
Public Education and Outreach

Permit Year 14

DATE	Activity	Attendance / Quantity
5/17/2016	Publish stormwater and solid waste disposal information in Village newsletter. Information informed residents to clear downspouts and debris in yards and informed about the environmental contractor retained by the village for mosquito monitoring and control. Publicized SWALCO event for household chemical waste that might otherwise be disposed in the storm sewers.	Village-wide
6/17/2016	Publish information on Household Chemical Waste Collection Event on June 18th.	1600 email subscribers averaging >50% open rate
Ongoing	Village stormwater page with basic information on stormwater pollution and common sources	Village-wide
Ongoing	Updated Village stormwater page with stormwater pollution links and climate control link.	Village-wide
1/24/2017	Publish information on Cummings Property Redevelopment. Publish information on Properly Manageing Waste - Waste Management. Publish information on electronic recycling for 2017.	1600 email subscribers averaging >50% open rate
2/6/2017	Publish information about Cummings Property Redevelopment.	1600 email subscribers averaging >50% open rate
2/14/2017	Publish information about K-Mart Redevelopment Open House. Publish Planning and Zoning Public Meeting Notice for Cummings Redevelopment.	1600 email subscribers averaging >50% open rate

Lake Zurich MS4 Log Book

Public Education and Outreach

Permit Year 14

DATE	Activity	Attendance / Quantity
2/24/2017	Publish State of the Village Meeting Notice. Publish Village Board Gas Station Review Notice. Publish Sign Code Update and Public Meeting. Public Ancient Oaks Workday Event. Public article on Improving Water Efficiency with EPA WaterSense.	1600 email subscribers averaging >50% open rate

Lake Zurich MS4 Log Book

Public Participation and Involvement

Permit Year 14

DATE	Activity	Attendance / Quantity
5/13/2016	Village hosted a class discussion and information with local junior high students about the basics of stormwater. Stormwater pollution and its effects on the community were worked into the week's curriculum. The Village also supported curriculum with local water samples for pH testing by students.	47 students, 4 sample locations
5/20/2016	Stormwater stenciling partnership with local school. Worked in tandem with class discussion and student curriculum. Event was sponsored by the MS4 and included all applicable supplies and maps necessary for stenciling.	47 students, 10 adult chaperones (including 3 Village officials/employees), 99 inlets stenciled, 400-500 door hangers distributed
5/20/2016	Stormwater stenciling partnership with local school.	47 students, 10 adult chaperones (including 3 Village officials/employees), 99 inlets stenciled, 400-500 door hangers distributed
5/20/2016	Stormwater stenciling partnership with local school post on Village Facebook page - also recommended event to local Lake County newspaper with an article written up about importance of keeping stormwater clean.	71 positive online reactions on Facebook post
6/6/2016	Recognition of Stenciling to the Board of Trustees (public meeting) with slideshow	The mayor recognized students (2 present + teacher) publicly
5/10/2016	St. Francis School had student volunteers pick up garbage and spread mulch.	
2/11/2016	Des Plaines River Watershed Workgroup Membership Meeting - Meeting Packet Minutes from 11/12/15 meeting, 5-Year Draft workplan discussion, Member business and Monitoring/Impairments/Lakes Committee	Attendees: B Harrison

Lake Zurich MS4 Log Book

Construction Stormwater Runoff Control

Permit Year 14

Year 14 (weekly)	Summary of Reviews and Site Visits for Construction Stormwater Weekly (or as necessitated by >0.5" rain) review of construction site inspection documents prepared by qualified inspectors for SWPPP adequacy and compliance. Sites hydrologically disturb >1 acre and/or have other qualifying conditions specified by ordinance to require weekly inspections.	2016-17 Construction Stormwater Permit Monitoring (7 sites)
---------------------	---	--

Lake Zurich MS4 Log Book

Illicit Discharge Detection and Elimination

Permit Year 14

DATE	Activity	Attendance / Quantity
4/21/2016	#ID-2016-01 - Thornton's fuel spill response, cleanup, resolution, & documentation	50 gal fuel spill contained and cleaned

Lake Zurich MS4 Log Book

Pollution Prevention and Good Housekeeping

Permit Year 14

DATE	Activity	Attendance / Quantity
Permit year	De-icing Chemical Use summary: The Village minimizes its use of salt application to roadways, drives, and parking lots (and therefore its presence in the stormwater) by utilizing various alternative anti-icing mixtures, application timing, and calibrated spreading rates.	897 TON granular salt used 69,844 GAL Anti-Ice mix used 8,515 GAL Pre-wet used
Permit year	Street Sweeping Records Performed mainly during spring to pickup winter debris and in the fall and after major storm events. Regular sweeping keeps road debris out of storm sewers	247.8 Cubic Yards of material. 2,147 miles of roadway swept.
Permit year	Storm Activities Hours Records: records for hours worked by public works employees cleaning storm sewers and structures, drainageways, and cleanup due to storm events	913 hours committed to stormwater and storm clean-up, repairs, televising, unclogging, and cleaning.
Permit year	Roadside trash & Park trash pickup Records: pickup from gutterlines, drainage swales, drainage areas, and parks occurs regularly throughout the year & keeps trash from entering waterways.	Downtown District and all Village Parks: bi-weekly. Roadside trash removal: Monthly.
Permit year	Material recycled during permit year.	27.42 tons
Permit year	Tires disposed of during permit year.	85 tires
Permit year	Vehicle batteries recycled during permit year.	67 batteries
Permit year	Used oil recycled during permit year.	6,250 gallons of oil
Permit year	2017 Proposed Budget for storm water management, lake/water quality management, NPDES compliance program, detention basin maintenance, equipment, street sweeper.	\$94,093.00 budgeted on personnel, contractual maintenance, tools/equipment, and other expenses
4/13/2016	Mosquito Larvicide application treatment course includes instruction in the application of environmentally sensitive larvicide treatments and minimizing their use in the stormwater system.	3 PW employees. Received IDNR Certificates.
2/23/2017	American Public Works Association - Natural Areas - What Do We Do With Them Seminar held at the Village of Huntley, Village Hall. Presented by APWA Chicago Metro-Fox Valley Branch.	Mike Cernock in attendance. Received certificate for 3.5 professional development hours.



OFFICE OF THE MAYOR

Thomas M. Poynton

PROCLAMATION RECOGNIZING ARBOR DAY IN LAKE ZURICH ON APRIL 29, 2016

WHEREAS, in 1872 the Nebraska Board of Agriculture proposed that a special day be set aside for the planting of trees; and

WHEREAS, this holiday, called Arbor Day, was first observed with the planting of more than a million trees in Nebraska and is now observed throughout the nation and the world; and

WHEREAS, trees reduce the erosion of our precious topsoil by wind and water, cut heating and cooling costs, moderate the temperature, clean the air, produce oxygen and provide habitat for wildlife; and

WHEREAS, global forests removed about one-third of fossil fuel emissions annually from 1990 to 2007, including more than 18,000 tons of air pollution each year from the Chicago metropolitan area; and

WHEREAS, trees are a renewable resource giving us paper, wood for our homes, fuel for our fires and countless other wood products; and

WHEREAS, trees in our Village increase property values, enhance the economic vitality of business areas, and beautify our community; and

WHEREAS, wherever they are planted, trees are a source of job and spiritual renewal.

NOW, THEREFORE, BE IT PROCLAIMED by the Mayor and Board of Trustees of the Village of Lake Zurich, Lake County, Illinois that Arbor Day be observed in the Village of Lake Zurich on April 29, 2016. I urge all citizens to support efforts to protect our trees and woodlands and to support our Village's urban forestry program.

Dated this 4th day of April, 2016.

In witness whereof, I have hereunto set my hand and caused the official Seal of this Village to be affixed.

A handwritten signature in black ink, reading "Tom Poynton", written over a horizontal line.

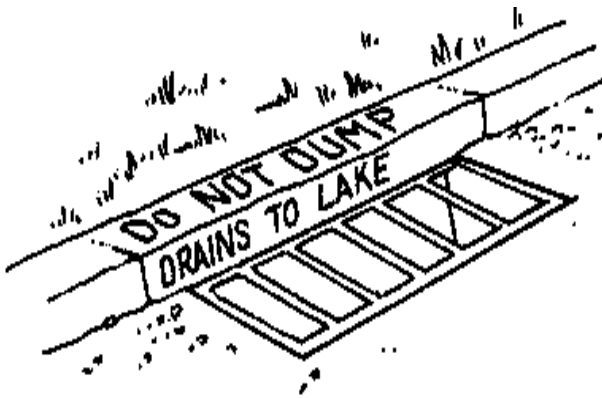
Tom Poynton, Mayor of Lake Zurich



For Immediate Release:
May 16, 2016

Press Contact:
Mike Brown, Public Works Director
Mike.Brown@LakeZurich.org
847-540-5066

LAKE ZURICH STUDENTS PARTNER WITH VILLAGE TO KEEP POLLUTANTS OUT OF STORMWATER



The students of Lake Zurich Middle School South are participating in a storm drain stenciling event this Friday, May 20, from 9:00 am – 11:00 am, sponsored by the Village of Lake Zurich as part of the Village's Stormwater Management Program Plan.

A few dozen 8th graders will be working with Middle School South science teacher Amie Russo, Lake Zurich Mayor Tom Poynton and the Public Works Department to stencil

environmental reminders on Lake Zurich storm drains. Approximately 30 to 50 kids are expected to target about 140 storm drains for the stenciling reminder to inform the public that drainage inlets are for stormwater only, lead directly into local water sources, and should not be used for dumping.

Mayor Tom Poynton, who will be working with the students, calls this stenciling event, "A good chance to get Lake Zurich youth thinking about the role we play in protecting our local environment. As community leaders, we need to make sure we are teaching our children that the small actions we take can have a big impact on the environment around us."

Public Works Director Mike Brown says, "Pollutants commonly found in stormwater runoff include motor oil, antifreeze, paint, pet waste, and fertilizers. Polluted stormwater damages the many wetlands we have in Lake County and destroys habitat needed for fish and other wildlife."

Stenciling environmental reminders onto drainage inlets will help advance Lake Zurich's participation in the National Pollutant Discharge Elimination System program, created in 1972 by the Clean Water Act to help address water pollution by regulating point sources of contamination.

###

Education | updated: 5/20/2016 2:14 PM

Storm drain stenciling meant to educate public on pollutants



Lake Zurich Public Works Manager Mike Brown demonstrates the stenciling process to Lake Zurich Middle School South eighth grade students as part of a storm drain stenciling event Friday. The stenciling aims to remind the public that drainage inlets are for stormwater only.

Steve Lundy | Staff Photographer



Mick Zawislak

Eighth-graders were painting in Lake Zurich neighborhoods Friday, but the exercise was about science not art.

The canvas for students from Lake Zurich Middle School South was the street in front of about 200 storm drains in the Countryside West and Sparrow Ridge subdivisions near the school.

They used white spray paint to stencil a message and the image of a fish as a reminder that whatever goes into the drain comes out in a local waterway.

Door hangers with advice, information and the message "Only Rain Down the Drain" also were distributed.

Part of a science class, the field trip was coordinated by teacher Amie Russo and sponsored by the village as part of its stormwater management program.

"We've partnered with the village of Lake Zurich to educate the public," Russo said. "It helps us and our kids to do the hands-on portion."

Eighth-grader Luke Jalove said the class has been learning about the potential dangers of dumping.

"I think it's pretty clear. I didn't think it was quite as important, maybe," Jalove said.

Mayor Tom Poynton joined the dozens of students who hit the streets. He said it was an opportunity to get young people to think about their roles in protecting the local environment and that small actions can have a big impact.

The village periodically stencils the message near storm sewers, but doesn't have the resources to do the entire community, Public Works Director Mike Brown said. The reminders are meant to help the village's participation in a federal program to address water pollution by regulating the source of contamination.

"Even if we don't get the rest of them, we got out the message," Brown said.

Pollutants found in stormwater runoff include motor oil, paints, antifreeze, pet waste and fertilizer that can damage wetlands and the habitat needed for fish and other animals, he said.

Storm drains in Lake Zurich lead to Flint Creek and eventually the Fox River or to Buffalo Creek and ultimately the Des Plaines River, explained Andrea Larson, municipal engineer with Manhard Consulting Ltd., a Vernon Hills firm that advises the village on engineering matters. The drains stenciled Friday were the latter, she added.

"There seems to be a misconception that all the stuff that goes into the (storm) sewer is treated but that's not the case whatsoever," she said.

[@dhmickzawislak \(https://twitter.com/dhMickZawislak\)](https://twitter.com/dhMickZawislak)

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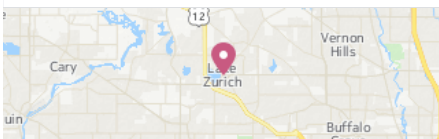
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ABOUT



Lake Zurich, IL

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Message Now

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APPS

Register for Offender Alerts

PHOTOS

Status

Photo / Video



Village of Lake Zurich added 2 new photos.

2 hrs ·

There's still time to come visit us until 2 pm at the Lake Zurich Dunkin Donuts and help us support the Special Olympics. We are selling t-shirts, hats and mugs. Special thanks to Lake Explorer Post 2 and Special Olympian Kyle Tuckey.



Like

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7

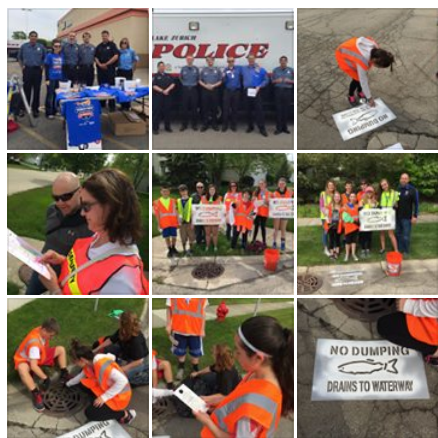
1 share



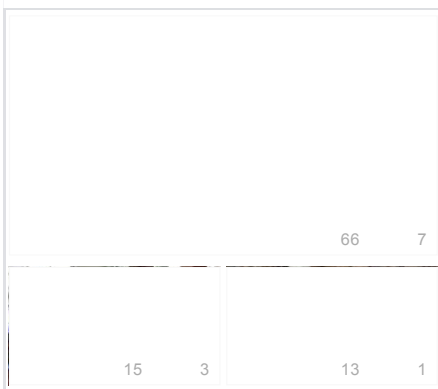
Village of Lake Zurich added 8 new photos.

4 hrs ·

Lake Zurich's Middle School South 8th grade class is preventing storm drain pollution by marking the drains in Countryside West with a No



VIDEOS



VISITOR POSTS



Edward Sturtevant

May 17 at 12:04pm

The Village Singers are putting on a Concert celebrating America & o... [See More](#)

1 Comment

[Like](#) · [Comment](#)



Laurie Lis Wilhoit

May 11 at 9:42am

Hawthorn Woods Community Garage Sale this Saturday!

[Like](#) · [Comment](#)



Edward Sturtevant

May 4 at 6:45pm

The Village Singers is presenting our Spring Concert, America From S... [See More](#)

[Like](#) · [Comment](#)

REVIEWS

4.2

4.2 of 5 stars

19 reviews



Tracy Jones

1 The 22 bypass was built to take the bulk of the traffic off Main St. You would think they would use it as a detour when ... [See More](#)

March 10, 2015 ·

Dumping Drains to Waterway message. The drain painting campaign includes an educational door hanger to remind people that oil, soap, gum, food wrappers and cigarette butts do not belong into the storm drain.

Help with flood control on your street. It only takes only a few minutes to check the storm drain in front of your house and remove any debris that has collected.



+5

[Like](#)

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32

[Chronological](#)



Village of Lake Zurich Thank you everyone for your hard work this morning. Lake Zurich is At The Heart of Community



[Like](#) · [Reply](#) · 2 · 3 hrs



[Write a comment](#)



Village of Lake Zurich

9 hrs ·

Help Lake Zurich Police is support Special Olympics today from 5 am to 2 pm at Dunkin Donuts on Rand Road (Rt 12).

Make a donation to the Torch Run fundraiser and receive a free donut. Donate at least \$10 and receive a travel mug with a free medium coffee.

Storm Water Management

Public Information

The following documents are available for download:

[Storm Water Management Plan](#)
[Illinois EPA Permit Renewal 2014](#)
[Illinois EPA Annual Report 2014-2015](#)

Additional Resources

- Lake County SMC
<http://www.lakecountyil.gov/STORMWATER/Pages/default.aspx>
- Buffalo Creek Clean Water Partnership
<http://www.buffalocreekcleanwater.org>
- Flint Creek Watershed Partnership
<http://www.flintcreekwatershed.org/>
- Illinois Environmental Protection Agency (IEPA)
<http://www.epa.illinois.gov/>
- Solid Waste Agency of Lake County (SWALCO)
<http://www.swalco.org/Pages/default.aspx>

Report Storm Water Concerns

Do you live in a development built in the 1990s or later? Chances are your subdivision has a detention basin to help control the storm water runoff from your property and the surrounding area. These basins act as an integral part of the storm water conveyance system; helping to direct, treat, and mitigate storm water runoff from roofs, streets, and lawns. However, to function properly, detention basins require regular maintenance. Spring is a great time to get out and check on these often remote areas of the neighborhood before they get overgrown and difficult to access. Look for the following:

- Debris build-up at pipe openings and ditches
- Damage to pipes and pipe grates
- Shoreline stabilization issues (erosion)
- Higher than normal water levels after 1-2 days of dry weather

Contact Us

Michael J. Brown
Manager
Mike.Brown@LakeZurich.org
Direct Phone: 847-540-5066

505 Telser Road
Lake Zurich, IL 60047

Main Phone: 847-540-1696
Fax: 847-726-2182

Hours

Monday - Friday
7:30 a.m. - 4:30 p.m.

[Staff Directory](#)

- Evidence of pollution or dumping

Care of these areas is often the responsibility of the homeowners' association, so it's important to make sure your management organization is on board with needed maintenance.

For concerns or questions, please contact us at: 847-540-1696 during business hours. For emergencies, please call 911.

Please bookmark this page using the permanent link:
<http://LakeZurich.org/Stormwater>

Storm Water Management

Public Information

The following documents are available for download:

[Storm Water Management Plan](#)
[Annual Report for Permit Year 13](#)
[Illinois EPA Permit Renewal 2014](#)
[Illinois EPA Annual Report 2014-2015](#)

Additional Resources

- Lake County SMC <http://www.lakecountyil.gov/stormwater>
- Conserve Lake County <http://www.conservelakecounty.org>
- Buffalo Creek Clean Water Partnership
<http://www.buffalocreekcleanwater.org>
- Flint Creek Watershed Partnership
<http://www.flintcreekwatershed.org/>
- Illinois Environmental Protection Agency (IEPA)
<http://www.epa.illinois.gov>
- Solid Waste Agency of Lake County (SWALCO)
<http://www.swalco.org>
- EPA Climate Change <https://www3.epa.gov/climatechange>

Report Storm Water Concerns

Stormwater runoff is precipitation from rain or snowmelt that flows over the ground. As it flows, it can pick up debris, chemicals, dirt, and other pollutants and deposit them into a storm sewer system or waterbody.

Anything that enters a storm sewer system is discharged into the waterbodies we use for swimming, fishing, and providing drinking water.

Remember: Only Rain Down the Drain

To keep the stormwater leaving your home or workplace clean, follow these simple guidelines:

- Use Pesticides and fertilizers sparingly.
- Repair auto leaks.
- Dispose of household hazardous waste, used auto fluids (antifreeze, oil, etc.), and batteries at designated collection or recycling locations.
- Clean up after your pet.

Contact Us

Michael J. Brown

Director of Public Works
Mike.Brown@LakeZurich.org

g
Direct Phone: 847-540-5066

505 Telser Road
Lake Zurich, IL 60047

Main Phone: 847-540-1696
Fax: 847-726-2182

Hours

Monday - Friday
7:00 a.m. - 3:30 p.m.

[Staff Directory](#)

- Use a commercial car wash or wash your car on a lawn or other unpaved surface.
- Sweep up yard debris rather than hosing down areas.
- Compost or recycle yard waste when possible.
- Clean paint brushes in a sink, not outdoors.
- Properly dispose of excess paints through a household hazardous waste collection program.
- Sweep up and properly dispose of construction debris like concrete and mortar.
- In the winter, follow package instructions when using salt and deicing materials; use them sparingly.

For concerns or questions, please contact us at: 847-540-1696 during business hours. For emergencies, please call 911.

Please bookmark this page using the permanent link:
<http://LakeZurich.org/Stormwater>

Electronic Recycling

Please recycle your electronics at SWALCO's nearest drop off location, listed below:

Cuba Township: Road District Facility

**28070 W. Cuba Rd.,
Barrington, IL**

Monday - Friday: 7:00am - 2:30pm



Please refer to [SWALCO's website](#) for other locations that accept electronics and for other general information.

As of January 1, 2012 no person or business may throw out or cause the disposal of the depicted banned electronic devices in a solid waste container or an Illinois sanitary landfill.

When you purchase a new electronic device, many retailers will accept the old unit for recycling.

(SWALCO is the Solid Waste Agency of Lake County)

Contact Us

Michael J. Brown

Director of Public Works

Mike.Brown@LakeZurich.org

g

Direct Phone: 847-540-5066

505 Telser Road
Lake Zurich, IL 60047

Main Phone: 847-540-1696

Fax: 847-726-2182

Hours

Monday - Friday

7:00 a.m. - 3:30 p.m.

Staff Directory

Items considered to be e-waste

- Answering Machines
- Blenders, Mixers, etc.
- Cables
- Calculators
- Camcorders
- Cameras
- CD ROM Drives
- CDs , DVDs, Disks
- Cellular Phones
- Coffee Makers (no glass)
- Mouse
- Pagers
- Phone Systems
- Plotters
- Postage Machines
- Power Tools
- Printers
- Projectors
- Rechargeable Batteries
- Scanners

- Copy Machines
- Credit Card Machines
- Dryers
- DVD Players
- Electric Motors
- Fax Machines
- Humidifiers
- Joy Sticks
- Keyboards
- Main Frames
- Microwave Ovens
- Modems
- Monitors
- Shredders
- Software
- Stereo Equipment
- Tape Drives Adding
Machines
- Tape Recorders
- Telephones
- Terminals
- TVs
- Typewriters
- VCRs
- Video Game Players
- Video/Audio Tapes

Part D. MS4 Summary of Year 15 Stormwater Activities

The table below indicates the stormwater management activities that the Village of Lake Zurich plans to undertake during Year 15. Additional information about the stormwater management activities that the Village will perform during Year 15 is provided in the section following the table.

Note: X indicates BMPs that will be implemented during Year 15

Year 15 Village of Deerfield	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
	A.3 Public Service Announcement
X	A.4 Community Event
X	A.5 Classroom Education Material
X	A.6 Other Public Education
B. Public Participation/Involvement	
	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
X	B.4 Public Hearing
	B.5 Volunteer Monitoring
X	B.6 Program Coordination
X	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
X	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 15 Village of Deerfield	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

The Village of Lake Zurich is committed to maintaining its current stormwater management program, which is described in more detail below, and will work to update and enhance its program, as needed, over the coming months, to comply with the requirements of the new 2016 ILR40 permit. Next year's annual report will contain information regarding the changes that have been made to the Village of Lake Zurich's stormwater management program to comply with the new requirements of the permit if necessary.

Stormwater Management Activities, Year 15

During Year 15, the Village of Lake Zurich plans to continue to perform a variety of stormwater management activities, as described in detail in the Village's SMPP and in brief below.

A. Public Education and Outreach

The Village of Lake Zurich is committed to implementing the Public Education and Outreach component of its SMPP. The Village utilizes a variety of methods to educate and provide outreach to the public about the impacts of storm water discharges on waterbodies and the steps that the public can take to reduce pollutants in storm water runoff. Outreach publications includes Village contact information to encourage residences to report environmental concerns. The Village plans to continue to implement the following BMPs as outlined in the Village's SMPP:

- Distribution of Educational Materials
- Household Hazardous Waste Program
- Residential Recycling & Refuse Program

Measurable Goals

1. Continue to implement the SWMP and track progress of BMPs as described in the SWMP.

B. Public Participation/Involvement

The Village of Lake Zurich is committing to implementing the Public Participation/Involvement component of its SWMP. The Public Participation and Involvement Program allows input from citizens regarding implementation of the SWMP. The Village plans to continue to implement the following BMPs as outlined in the Village's SWMP:

- Public Review
- Environmental Justice Area Review
- Complaints, Suggestions, and Requests
- Watershed Planning and Stakeholders Meetings

Measurable Goals

1. Continue to implement the SWMP and track progress of BMPs as described in the SWMP.

C. Illicit Discharge Detection and Elimination

The Village of Lake Zurich is committed to perform activities related to the illicit discharge

component of its SWMP. The Village plans to continue to implement the following BMPs as outlined in the Village's SWMP:

- Storm Sewer System Map
- Enforcement of the Lake County Watershed Development Ordinance
- Visual Dry Weather Inspection Program
- Public Notification

Measurable Goals

1. Continue to implement the Illicit Discharge Detection and Elimination Program and track progress as described in the SWMP.

D. Construction Site Runoff Control

The Village has adopted the Lake County WDO and utilizes Lake Zurich's IDDE Ordinance as a means to enforce the WDO within the Village's jurisdiction. The Village's Village Code meets the minimum requirements of the WDO and any project within the corporate limits must meet these requirements. The purpose of these regulations is to establish reasonable rules and regulations for development to ensure that new development does not increase existing storm water problems or create new ones. The Village plans to continue to implement the following BMPs as outlined in the Village's SMPP:

- Site Plan Review
- Construction Site Inspections & Enforcement

Measurable Goals

1. Continue to implement the SWMP and track progress of BMPs as described in the SWMP.

E. Post-Construction Runoff Control

As described above, the WDO establishes the minimum stormwater management requirements for development in the village. The WDO establishes standards for post-construction site runoff control. The Village plans to continue to implement the following BMPs as outlined in the Village's SWMP:

- Regulatory Program
- Storm Water Management Facility Inspections

Measurable Goals

1. Continue to implement the SWMP and track progress of BMPs as described in the SWMP.

F. Pollution Prevention/Good Housekeeping

The Village of Lake Zurich is committing to implementing the Pollution Prevention/Good Housekeeping component of its SMPP. This minimum control measure involves the development and implementation of an operation and maintenance program to reduce the discharge of pollutants from municipal operations. The Village will examine and subsequently

alter their actions to help ensure a reduction in the amount and type of pollution. Various pollution types include material that collects on streets, parking lots, open spaces, and storage and vehicle maintenance areas and is discharged into local waterways. The Village will continue to evaluate “sensible salting” procedures relating to a reduction in chloride use. The Village will conduct regular inlet/catch basin cleaning and street sweeping. The Village continues to organize events to help reduce pollution and floatable material. The Village plans to continue to implement the following BMPs as outlined in the Village’s SWMP:

- Catch Basin/Inlet Cleaning
- Public Works Washing Station Facility
- Street Sweeping
- Landscape Maintenance
- Snow Removal and Ice Control
- Vehicle and Equipment Maintenance
- Waste Management
- Spill Response Plan

Measurable Goals

1. Continue to implement the SWMP and track progress of BMPs as described in the SMPP.

Part E. Notice of Qualifying Local Program

The Lake County Stormwater Management Commission (SMC) serves as a Qualifying Local Program (QLP) for MS4s in Lake County. In accordance with IEPA's General NPDES Permit No. ILR40, as a QLP, SMC performs activities related to each of the six minimum control measures. This part of the Annual Report, which summarizes the stormwater management activities performed by SMC as a QLP, consists of the following five sections:

- **Part E1** identifies changes to Best Management Practices (BMPs) that occurred during Year 14 and includes information about how these changes affected the QLP's stormwater management program.
- **Part E2** describes the stormwater management activities that the QLP performed during Year 14.
- **Part E3** summarizes the information and data collected by the QLP during Year 14.
- **Part E4** describes the stormwater management activities that the QLP plans to undertake during Year 15.
- **Part E5** lists the construction projects conducted by the QLP during Year 14.

Please note that portions of the QLP's reported activities do not apply to the Village of Lake Zurich.

Part E1. QLP Changes to Best Management Practices, Year 14

Note: "X" indicates BMPs that were implemented as planned

✓ indicates BMPs that were changed during Year 14

Year 14 QLP	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
X	A.5 Classroom Education Material
X	A.6 Other Public Education
B. Public Participation/Involvement	
X	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
	B.4 Public Hearing
	B.5 Volunteer Monitoring
X	B.6 Program Coordination
	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	C.3 Detection/Elimination Prioritization Plan
	C.4 Illicit Discharge Tracing Procedures
	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
X	C.10 Other Illicit Discharge Controls

Year 14 QLP	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
X	E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
✓	F.6 Other Municipal Operations Controls

Part E2. QLP Status of Compliance with Permit Conditions, Year 14

IEPA issued a new version of its General NPDES Permit No. ILR40 effective March 1, 2016 (the first day of Year 14). SMC has reviewed the new permit, compared it to the previous permit, summarized the changes, and evaluated what the changes appear to mean for Lake County MS4s. Based on these findings, SMC revised its SMPP template and provided it to communities in August 2016; the final draft was provided in November 2016.

The [Lake County Stormwater Management Commission \(SMC\) serves as a Qualifying Local Program \(QLP\)](#) for MS4s in Lake County. In accordance with IEPA's NPDES General Permit No. ILR40, as a QLP, SMC performs activities related to each of the six minimum control measures. The stormwater management activities that the QLP performed during Year 14 are described below.

A. Public Education and Outreach

A.1 Distributed Paper Material

Measurable Goal(s):

- Distribute informational materials from “take away” rack at SMC. Upon request, distribute materials directly to municipalities for local distribution.

Year 14 QLP activities:

- SMC distributes a variety of informational materials related to stormwater management through its “take away” rack and website.
- Upon request, informational materials are distributed directly to Lake County MS4s in PDF format for use on community websites, in community newsletters, and in community “take away” racks.
- In 2016, SMC developed “Living on the Water’s Edge” which included prevention pollution and bio infiltration practices for riparian landowners. This was widely distributed electronically (<https://lakecountyil.gov/DocumentCenter/View/11146>) as well as in print form.
- Provided NPDES related information via Facebook

A.3 Public Service Announcement

Measurable Goal(s):

- Include public service announcement highlighting community accomplishments related to IEPA's NPDES Stormwater Program in “[Mainstream](#)” once annually;
- Post watershed identification signage with LCDOT;
- Upon request or download “[The Big Picture: Water Quality, Regulations & NPDES](#)” to Lake County MS4s.

Year 14 QLP activities:

- SMC includes announcements highlighting community accomplishments related to IEPA's NPDES Stormwater Program on its website, in its newsletter, and through other media outlets.

- Watershed identification signage is located throughout the county.
- SMC continues to make available “[The Big Picture: Water Quality, Regulations & NPDES](https://lakecountyil.gov/DocumentCenter/View/16533)” presentation to Lake County MS4s,
(url: <https://lakecountyil.gov/DocumentCenter/View/16533>).

A.4 Community Event

Measurable Goal(s):

- Sponsor or co-sponsor workshop on a topic related to IEPA’s NPDES Stormwater Program.

Year 14 QLP activities:

- SMC sponsored or co-sponsored many workshops and events on stormwater-related topics between March 1, 2016 and February 28, 2017, including:
 - Municipal Pollution Prevention/Good Housekeeping: Indiana & California Indiana Perspectives at April 2016 MAC meeting
 - Presentations at April, June, September 2016 MAC meetings regarding new ILR40 permit, its implications and SMCs guidance on compliance.
 - Center for Watershed Protection stormwater webinars (March, May, June, September, October, November 2016)
 - Homeowners Association Workshop on maintaining stormwater BMPs at CLC May 2016
 - Fox River/Chain O’Lakes river clean-up in Fox Lake, Port Barrington & Antioch, IL on May 7, 2016
 - Chicago River clean-up (Chicago River Day) in Lincolnshire, Highland Park, Lake Forest & Lake Zurich, IL on May 14, 2016
 - Buffalo Creek clean-up (Rylko Community Park Workday) in Buffalo Grove, IL on May 20, 2016
 - Rain Barrel, Compost Bin, and Native Plant Sale held in Libertyville, IL on May 7, 2016
 - Roadway De-Icing Workshop held in Libertyville, IL on Oct. 3 & 5, 2016
 - Parking Lots & Sidewalks De-Icing Workshop held in Libertyville, IL on October 4, 2016
 - Green Infrastructure workshop for Highland Park District Supervisors and Staff February 11, 2016
 - Des Plaines River Watershed Presentation at Adlai Stevenson Center on Democracy Oct. 13, 2016
 - SMC sponsored a Designated Erosion Control Inspector (DECI) Workshop held on Jan. 5/2017

A.5 Classroom Education

Measurable Goal(s):

- Develop and compile information for stormwater educational kit for distribution upon request.
- Provide materials and training on storm sewer inlet stenciling kits to teachers upon request.

Year 14 QLP activities

- Stormwater educational materials were compiled for use at several public education events that were held between March 1, 2016 and March 31, 2017, including:
 - Riparian Landowner Open House held in Beach Park, IL on May 25, 2016
 - Loch Lomond Property Owners Association's Loch Fest held in Mundelein, IL on July 30, 2016
 - Rain Barrel, Compost Bin, and Native Plant Sale held in Libertyville, IL on May 7, 2016
 - Developed Deicing Residential & Commercial Informational Brochure
 - Developed "Living on the Water's Edge" Brochure used for multiple events, including Des Plaines River watershed planning meetings, watershed meetings, LCHD lakes committee meetings, etc.

A.6 Other Public Education

Measurable Goal(s):

- Maintain and update the portion of the SMC website dedicated to IEPA's NPDES Stormwater Program with resource materials such as model ordinances, case studies, brochures and web links.
- Make "[The Big Picture: Water Quality, Regulations & NPDES](#)" presentation available to Lake County MS4s.

Year 14 QLP activities:

- As new information and resource materials become available, they are posted to the SMC website and/or distributed directly to Lake County MS4s, (url:<https://lakecountyil.gov/2479/NPDES-Phase-II>).
- SMC continues to make available "The Big Picture: Water Quality, Regulations & NPDES" presentation to Lake County MS4s, (url:<https://lakecountyil.gov/DocumentCenter/View/16533>).
- SMC developed an ArcGIS geospatial web tool for Lake County that indicates TMDL statuses, 303(b), 305(d), watershed and urbanized area information within an MS4, (url:<https://lakecountyil.maps.arcgis.com/apps/InformationLookup/index.html?appid=09ab978957e7499f9926805d29e9394a>).
- SMC developed an ArcGIS geospatial web tool for Lake County within the Des Plaines River watershed, allowing the public to see an [Inventory of Stream and](#)

[Detention Basin](https://lakecountyl.maps.arcgis.com/apps/webappviewer/index.html?id=918c4042dc431ba46b5c1a7030b46c&extent=-9835848.6057,5176480.893,-9738009.2095,5239847.1894,102100) Information, (url: <https://lakecountyl.maps.arcgis.com/apps/webappviewer/index.html?id=918c4042dc431ba46b5c1a7030b46c&extent=-9835848.6057,5176480.893,-9738009.2095,5239847.1894,102100>).

- SMC maintains reference documents for stormwater best practices, BMPs and green infrastructure practices on its website, (url: <https://lakecountyl.gov/2261/Stormwater-Best-Practices>).

B. Public Participation/Involvement

B.1 Public Panel

Measurable Goal(s):

- Provide notice of public meetings on SMC website. Track number of meetings conducted.

Year 14 QLP activities:

- Notice of all public meetings continues to be provided on the SMC website and through direct mailings and e-mailings to distribution lists.
- SMC tracked the number of Stormwater Management Committee Board (SMC) meetings, Technical Advisory Committee (TAC) meetings, Municipal Advisory Committee (MAC), and Watershed Management Board (WMB) meetings conducted during Year 14, between March 1, 2016 and March 31, 2017.
 - Per records, there were 10 SMC meetings, 0 TAC meetings, 4 MAC meetings, and 1 WMB meeting conducted during this reporting period.

B.3 Stakeholder Meeting

Measurable Goal(s):

- Provide notice of stakeholder meetings on SMC website.
- Track number of watershed planning committee meetings conducted.
- Establish watershed planning committees for each new watershed planning effort.

Year 14 QLP activities:

- Notice of all stakeholder meetings continues to be provided on the SMC website and through direct mailings and e-mailings to stakeholder lists.
- SMC tracked the number of stakeholder meetings conducted for the various watershed planning committees during the reporting period. The list below summarizes the watershed planning committee meetings that were conducted during Year 14:
 - North Branch Chicago River Planning Committee – 3
 - Bull Creek/Bull's Brook Watershed Council – 2
 - Buffalo Creek Clean Water Partnership – 1
 - Des Plaines Watershed Planning Committee – 10

- Des Plaines River Watershed Workgroup – 15 (excluding executive board meetings)
- SMC continues to establish and/or assist watershed planning committees for each new watershed planning effort.

B.6 Program Coordination

Measurable Goal(s):

- Track number of MAC meetings conducted during Year 14.
- Prepare annual report on Qualifying Local Program activities at end of Year 14.

Year 14 QLP activities:

- SMC tracked the number of Municipal Advisory Committee (MAC) meetings conducted during Year 14: According to records, there were 3 MAC meetings conducted during this reporting period. 4/6/16, 6/8/16, 9/14/16
- The stormwater management activities that SMC performed as a QLP during Year 14 are described in the Annual Facility Inspection Report (i.e., Annual Report) template provided to Lake County MS4s.
- The stormwater management activities that SMC plans to perform as a QLP during Year 15 are described in Part E4 of the Annual Report template.
- A detailed QLP section was added to the SMPP template describing the QLP commitments related to the implementation of the program.

C. Illicit Discharge Detection and Elimination

C.2 Regulatory Control Program

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 14 QLP activities:

- SMC continues to enforce the countywide WDO.
- Lake County continues to provide [the Lake County Illicit Discharge Detection and Elimination \(IDDE\) Manual](https://lakecountyil.gov/DocumentCenter/View/17264) on the SMC website, (url: <https://lakecountyil.gov/DocumentCenter/View/17264>)

C.10 Other Illicit Discharge Controls

Measurable Goal(s):

- Sponsor or co-sponsor and track the number of attendees at an Illicit Discharge Detection and Elimination workshop or other training workshop related to IEPA's NPDES Stormwater Program.

Year 14 QLP activities:

- SMC sponsored or co-sponsored many workshops and events on stormwater-related topics between March 1, 2016 and February 28, 2017. Such workshops and events are described above.

D. Construction Site Runoff Control

D.1 Regulatory Control Program

Measurable Goal(s):

- Continue to enforce the countywide WDO.
- Administer the Designated Erosion Control Inspector (DECI) program outlined by the WDO.

Year 14 QLP activities:

- SMC continues to enforce the countywide WDO.
- SMC continues to administer the Designated Erosion Control Inspector (DECI) program as outlined by the WDO, (url: <https://lakecountyil.gov/2470/Designated-Erosion-Control-Inspector-Pro>).
- Total DECIs who have passed the exam (to date): 1,356.
- DECIs who have passed the exam between 03/01/2016 – 02/28/2017: 34.
- Total listed DECIs (to date): 139 (DECI completed certification process).
- DECIs have a recertification process every (3) years. Current cycle 2017-2020.

D.2 Erosion and Sediment Control BMPs

Measurable Goal(s):

- Continue to enforce the countywide WDO.
- Complete TRM update and work toward final approval and publication of the document.

Year 14 QLP activities:

- SMC continues to enforce the countywide WDO.
- SMC continues to provide technical guidance and reference materials to support the administration and enforcement of the countywide WDO.

D.3 Other Waste Control Program

Measurable Goal(s):

- Enforce WDO provisions regarding the control of waste and debris at construction sites.

Year 14 QLP activities:

- SMC continues to enforce the countywide WDO.

D.4 Site Plan Review Procedures

Measurable Goal(s):

- Track number of enforcement officers who have passed the exam.
- Track number of communities that undergo a performance review.
- Complete ordinance administration and enforcement chapter of TRM.

Year 14 QLP activities:

- SMC continues to track the number of enforcement officers (EOs) who have passed the EO exam and have become EOs. Per records, as of the end of Year 14, there are 57 EOs certified in Lake County.
- The list of EOs representing Certified Communities is continually updated and maintain on the SMC website:
(url: <https://lakecountyil.gov/DocumentCenter/View/14412>).
- SMC last completed a cycle of the community re-certification process, which included a performance review of all 53 certified and non-certified communities, during a previous reporting period (i.e., Year 9). In accordance with the amended countywide WDO, the certification process is every 5 years the next cycle of the community re-certification process is scheduled to begin in fall/winter 2017.
(url: <https://lakecountyil.gov/2459/Community-Certification>)
- The website includes guidance information to supplement the TRM related to WDO interpretation as well as ordinance administration and enforcement.

D.5 Public Information Handling Procedures

Measurable Goal(s):

- Track number of complaints received and processed related to soil erosion and sediment control.

Year 14 QLP activities:

- SMC continues to track the number of complaints received and processed related to soil erosion and sediment control.
- According to records, between March 1, 2016 and March 31, 2017, 2 SE/SC complaints were received and processed by SMC staff.

D.6 Site Inspection/Enforcement Procedures

Measurable Goal(s):

- Track number of site inspections conducted by SMC.

Year 14 QLP activities:

- SMC continues to track the number of site inspections conducted by SMC staff.
- According to records, between March 1, 2016 and March 31, 2017, 756 site inspections were conducted by SMC staff.

E. Post-Construction Runoff Control

E.2 Regulatory Control Program

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 14 QLP activities:

- SMC continues to enforce the countywide WDO.

E.3 Long Term O&M Procedures

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 14 QLP activities:

- SMC continues to enforce the countywide WDO.

E.4 Pre-Construction Review of BMP Designs

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 14 QLP activities:

- SMC continues to enforce the countywide WDO.

E.5 Site Inspections During Construction

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 14 QLP activities:

- SMC continues to enforce the countywide WDO.

E.6 Post-Construction Inspections

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 14 QLP activities:

- SMC continues to enforce the countywide WDO.

E.7 Other Post-Construction Runoff Controls

Measurable Goal(s):

- Conduct annual Watershed Management Board (WMB) meeting.
- Contribute funding to flood reduction and water quality improvement projects, including stormwater retrofits, through the WMB.

Year 14 QLP activities:

- The annual WMB meeting was held on Dec. 8, 2016.
- At the annual WMB meeting 13 Projects were selected to receive \$177,000 of funding through the SMC grant program. These projects including planning and in the ground project efforts that support flood reduction, water quality improvement, and stormwater retrofit projects.
 - 11 WMB project grants awarded
 - 1 Stormwater Infrastructure Repair Fund (SIRF) project grant awarded
 - 1 Watershed Management Assistance (WMAG) project grant awarded

F. Pollution Prevention/Good Housekeeping

F.1 Employee Training Program

Measurable Goal(s):

- Provide list of available resources to MS4s.
- Sponsor or co-sponsor employee training workshops or events.
 - Make available the Excal Visual Municipal Storm Water Pollution Prevention Storm Watch Everyday Best Management Practices training video and testing.

Year 14 QLP activities:

- SMC continues to provide information on training opportunities and training resources to Lake County MS4s.
- SMC sponsored or co-sponsored a number of workshops and events on stormwater-related topics between March 1, 2016 and February 28, 2017. Such workshops and events are described above.
- SMC continues to make available the Excal Visual Storm Watch Municipal Stormwater Pollution Prevention software to Lake County MS4s. According to records, between March 1, 2016 and February 28, 2017, 1 MS4 borrowed the Excal Visual software. (url: <http://lakecountyil.gov/2479/NPDES-Phase-II>)
- SMC staff participated in Pollution Modeling Workshop Dec 12, 2016 at CMAP

F.5 Flood Management/Assess Guidelines

Measurable Goal(s):

- Track number of projects that are reviewed for multi-objective opportunities.

Year 14 QLP activities:

- SMC continues evaluate all SMC-sponsored projects for multi-objective opportunities, such as flood control and water quality.

F.6 Other Municipal Operations Controls

Winter Roadway Deicing

Measurable Goal(s):

- Advise MS4 communities of watershed groups addressing issues associated with the use of chlorides (i.e. road salt)

Year 14 QLP activities:

- SMC co-sponsored 2 de-icing workshops:
 - Deicing for Parking Lots and Sidewalks 10/4/2016
 - Deicing Roads 10/5/2016
- A de-icing certification process to promote trained vendors is offered

- Preferred Providers that successfully completed a Lake County Deicing Training Workshop and passed the Course Exam can be referenced on a Preferred Provider List (url: <https://www.lakecountyl.gov/DocumentCenter/Home/View/10767>)
- Certification is through a third-party vendor, Fortin Consulting, Inc
- SMC continues to make available chloride reduction documents
 - [Too Much Salt in Our Winter Maintenance Recipe - Tips for Managing Snow and Ice at Home \(PDF\)](https://lakecountyl.gov/DocumentCenter/Home/View/3047) (url: <https://lakecountyl.gov/DocumentCenter/Home/View/3047>)
 - Lake County Winter Parking Lot and Sidewalk Maintenance Manual (2015) (PDF) (url: <https://lakecountyl.gov/DocumentCenter/Home/View/3044>)
 - Less Salt Equals Less Money, Clean Water, Safe Conditions - Tips for Effective Road Salting (PDF) (url: <https://lakecountyl.gov/DocumentCenter/Home/View/3045>)

Part E3. QLP Information and Data Collection Results, Year 14

The QLP did not collect any monitoring data on behalf of Lake County's MS4s during Year 14. However, SMC has reviewed information presented by the [Illinois EPA \(IEPA\) in the 2016 Illinois Integrated Water Quality Report and 303\(d\) List](#) and has developed the brief "State of Lake County's Waters" report provided below.

State of Lake County's Waters

March 2017

This brief report is based on information contained in the [Illinois EPA's 2016 Illinois Integrated Water Quality Report \(IIWQR\) and Section 303\(d\) List](#), dated July 2016. Its purpose is to provide basic information to Lake County's MS4 communities on the condition of surface waters within Lake County. More detailed information about the condition of surface waters in Lake County can be found in the Illinois EPA's 2016 Illinois Integrated Water Quality Report and Section 303(d) List.

The Illinois EPA's 2016 IIWQR and Section 303(d) List assesses the condition of surface water within streams, inland lakes and Lake Michigan waters. The IEPA assessment of surface water conditions is based on a degree of support (attainment) of a designated use within a stream segment, inland lake or within Lake Michigan. Determination designation is through an analysis of various types of information: including biological, physicochemical, physical habitat, and toxicity data. Illinois waters are designated for various uses including aquatic life, wildlife, agricultural use, primary contact (e.g., swimming, water skiing), secondary contact (e.g., boating, fishing), industrial use, public and food-processing water supply, and aesthetic quality. When sufficient data is available the IEPA assesses each applicable designation as Fully Supporting (Good resource quality), Not Supporting (Fair or Poor resource quality), Not Assessed or Insufficient Information. Uses determined to be Not Supporting are called "impaired," and waters that have at least one use assessment as Not Supporting are also called impaired as designated within the 303(d) list.

Streams

An analysis of data accompanying the Illinois EPA's 2016 IIWQR and Section 303(d) List shows that 179.68 stream miles in Lake County have been assessed by the Illinois EPA for attainment of at least one designated use per the IIWQR Appendix B-2. Specific Assessment Information for Streams, 2016.

An analysis of data accompanying the Illinois EPA's 2016 Illinois Integrated Water Quality Report and Section 303(d) List shows that 157.84 stream miles (of the 179.68 stream miles that have been assessed) in Lake County are considered impaired by the Illinois EPA. These stream segments have been mapped and are shown in Figure E3.1.

An analysis of the 2014 impaired streams to the 2016 impaired streams, indicates 8 stream miles previously listed in the 2014 303(d) list have new data indicating aquatic life is now "Fully Supported" and applicable water quality standards have been attained; these water are no longer included in the 2016 303(d) list. The IIWQR mentions there is no specified reason for the recovery.

An analysis of the 2014 impaired streams to the 2016 impaired streams indicates 27 stream miles previously not listed in the 2014 303(d) list are now considered impaired in the 2016 303(d) list as new data indicates impairments.

Table E3.1 2014 303(d) streams removed from 2016 303(d) list						
Assessment ID	Name	Miles		Assessment ID	Name	Miles
IL_G-08	Des Plaines River	0.98		IL_QE-01	Dead Dog Creek	4.02
IL_GV-01	Bull Creek	2.33		IL_DTZS-01	Flint Creek	9.66
IL_RGZB	Hastings Lake	0.34		IL_RTJ	Long Lake	2.85
IL_DT-35	Fox River	5.03		IL_RHK	Eleanor Lake	0.36
IL_HCCB-05	West Fork North Branch	5.73		IL_GWA	North Mill Creek	6.62
IL_GST	Buffalo Creek	8.77		IL_RGZE	Slough Lake	0.42
IL_RGZA	Crooked Lake	1.00				

Table E3.2 Stream Segments added to 2016 303(d) list not previously listed in 2014						
Assessment ID	Name	Miles		Assessment ID	Name	Miles
IL_HCCB-05	West Fork North Branch Chicago River	0.002		IL_QC-03	Waukegan River	1.47
IL_DTRA-W-C1	Fiddle Creek	0.003		IL_GU-02	Indian Creek	11.32
IL_GW-02	Mill Creek	12.96		IL_QA-C4	Pettibone Creek	1.24

Lakes

An analysis of data accompanying the Illinois EPA's 2016 IIWQR and Section 303(d) List shows that 170 inland lakes in Lake County have been assessed by the Illinois EPA for attainment of at least one designated use per the IIWQR Appendix B-3. Specific Assessment Information for Lakes, 2016.

An analysis of data accompanying the Illinois EPA's 2016 IIWQR and Section 303(d) List shows that 140 inland lakes, of the 170 assessed, in Lake County are considered impaired by the Illinois EPA. These lakes have been mapped and are shown in Figure E3.1.

An analysis of the 2014 impaired lakes to the 2016 impaired lakes indicates 5 lakes previously not listed in the 2014 303(d) list are now considered impaired in the 2016 303(d) list as new data indicates impairments.

Table E3.3 Inland Lakes added to 2016 303(d) list not previously listed in 2014						
Assessment ID	Name	Acres		Assessment ID	Name	Acres
IL_RGZD	Miltmore	83.1		IL_VGW	Rollins Savanna #1	8
IL_RGK	Grays	80		IL_VGX	Rollins Savanna #2	53
IL_SGZ	Briarcrest Pond	4				

Lake Michigan

Lake Michigan is monitored by the Illinois EPA through the Lake Michigan Monitoring Program. Bordering Cook and Lake Counties, the State of Illinois has jurisdiction over approximately 1,526 square miles of open water, 13 harbors, and 64 shoreline miles of Lake Michigan.

Located within Illinois is 196 square miles of open water of Lake Michigan, or about thirteen percent of the total open water located within Illinois. These waters were assessed for the 2016 IIWQR and Section 303(d) List, and all 196 assessed square miles were rated as Fully Supporting for the following uses: aquatic life use, primary contact use, secondary contact use, and public and food processing water supply use. However, fish consumption use in all 196 assessed square miles of open water was rated as Not Supporting due to contamination from polychlorinated biphenyls (PCBs) and mercury. Additionally, aesthetic quality use in all 196 assessed square miles of open water was rated as Not Supporting due to exceedances of the Lake Michigan open water standard for total phosphorus. It should be noted that such exceedances do not necessarily indicate that there are offensive conditions in Lake Michigan due to excessive algal or aquatic plant growth.

Along Illinois' Lake Michigan coastline, four of the 13 harbors are currently assessed in the 2016 IIWQR and Section 303(d) List, for several different designated uses. The Illinois EPA uses data collected from the Lake Michigan Monitoring Program harbor component to assess water quality for the following designated uses:

- Aesthetic Quality, a 0.18 sq. mi area was assessed, with 0.12 sq. mi fully supporting and 0.06 sq. mi Not Supporting (poor).
- Aquatic Life, a 3.88 sq. mi area was assessed, with 3.82 sq. mi fully supporting and 0.06 sq. mi Not Supporting (poor).
- Fish Consumption, a 2.62 sq. mi area was assessed, with 2.62 sq. mi Not Supporting (poor).
- Primary and Secondary Contact were not assessed.

Table C-10 of the IIWQR, lists potential causes of impairment in the harbors of Lake Michigan that can include Pesticides, Organic Pollutants, Metal Pollutants as well as polychlorinated biphenyls (PCBs), mercury, bottom deposits, lead, zinc, cadmium, arsenic, phosphorus, copper, and chromium.

Along Illinois' Lake Michigan coastline, a portion of all 64 shoreline miles of Lake Michigan located in Illinois were assessed for the Illinois EPA's 2016 IIWQR and Section 303(d) List for several different designated uses. Contamination sources for Not Supporting is due to polychlorinated biphenyls (PCBs) and mercury and bacterial contamination from Escherichia coli (E. coli) bacteria.

- Aesthetic Quality and Aquatic Life were not assessed.
- Fish Consumption, 64 mi area was assessed, with 64 mi Not Supporting (poor).
- Primary Contact, 64 mi area was assessed, with 5.5 mi fully supporting and 58.5 mi Not Supporting (poor).
- Secondary Contact, 5.5 mi area was assessed, with 5.5 mi fully supporting

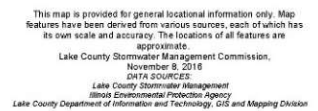


Figure E3.1

In addition to the information contained within the 303(b) and 303(d) reports, the Des Plaines River Watershed Workgroup (DRWW) founded in 2014, on behalf of its members, monitors water quality in the Des Plaines River and tributaries, prioritize and implement water quality improvement projects, and secure grant funding to offset the cost. Monitoring data will allow for a greater understanding of the water quality impairments, identify priority restoration activities, and track water quality improvements. The Workgroup is committed to an approach for attaining water quality standards that focuses on stakeholder involvement, monitoring, and locally led decision-making based on sound science. Comprehensive baseline monitoring has been completed at 69 sites for water chemistry, sediment chemistry and biology. Flow monitoring began in late 2016. An annual water chemistry monitoring report was submitted to IL EPA in March 2017, which covers the NPDES II monitoring requirements for MS4 communities that are DRWW members. A Des Plaines River Watershed monitoring strategy was completed in February 2016 and updated in March 2017; a monitoring program report is intended to be submitted to IEPA by January 31, 2018.

The LCHD Lakes Management Unit has been collecting water quality data on Lake County lakes since the late 1960s. Since 2000, 176 different lakes each year have been studied and data collected on temperature, dissolved oxygen, phosphorus, nitrogen, solids, pH, alkalinity, chloride, conductivity, water clarity, the plant community and shoreline characteristics. Lake summary reports can be found <https://www.lakecountyil.gov/2400/Lake-Reports>. This data is used as part of ongoing watershed planning efforts throughout the county, which result in specific programmatic and site specific recommendations throughout the county. SMC is currently developing an application to assist communities in identifying potential site specific recommendations within their jurisdictional boundaries.

Part E4. QLP Summary of Year 15 Stormwater Activities

The table below indicates the stormwater management activities that the QLP plans to undertake during Year 15. Additional information about the BMPs and measurable goals that the QLP will implement during Year 15 is provided in the section following the table.

Note: X indicates BMPs that will be implemented during Year 15

Year 15 QLP	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
X	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
X	A.5 Classroom Education Material
X	A.6 Other Public Education
B. Public Participation/Involvement	
X	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
	B.4 Public Hearing
	B.5 Volunteer Monitoring
X	B.6 Program Coordination
	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	C.3 Detection/Elimination Prioritization Plan
	C.4 Illicit Discharge Tracing Procedures
	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
X	C.10 Other Illicit Discharge Controls

Year 15 QLP	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
X	E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
X	F.6 Other Municipal Operations Controls

The Lake County Stormwater Management Commission (SMC) is a Qualifying Local Program for MS4s in Lake County. SMC has been providing services under four of the six minimum control categories since it began implementing a comprehensive, countywide stormwater program in 1991. The revised SMPP template clarifies and emphasizes the significant efforts by SMC related to each of the six minimum control measures. These QLP commitments provide Lake County with a baseline Countywide stormwater management program that can be built upon by each of the individual MS4s.

During Year 15, SMC remains committed to performing a variety of stormwater management activities across the County, these commitments are now specifically outlined in the SMPP template. SMC program is continually evolving, to better assist Lake County MS4s in meeting the requirements of the new 2016 MS4 Permit.

A. Public Education and Outreach

SMC will continue to support Lake County MS4s in the development and implementation of their stormwater management programs by performing activities related to the Public Education and Outreach minimum control measure, as described below.

A.1 Distributed Paper Material

SMC compiles, develops, and distributes throughout Lake County a variety of materials related to stormwater management.

Measurable Goal(s):

- Develop and Distribute informational materials from “take away” rack at SMC.
- Upon request, distribute informational materials directly to Lake County MS4s for local distribution.

A.2 Speaking Engagement

SMC provides educational presentations related to IEPA’s NPDES Stormwater Program on a regular basis at Municipal Advisory Committee (MAC) meetings. Upon request, SMC will provide educational presentations related to IEPA’s NPDES Stormwater Program to Lake County MS4s.

Measurable Goal(s):

- Provide educational presentations related to IEPA’s NPDES Stormwater Program at MAC meetings.
- Upon request, provide educational presentations related to IEPA’s NPDES Stormwater Program (e.g., [“The Big Picture: Water Quality, Regulations & NPDES”](#)) to Lake County MS4s.

A.3 Public Service Announcement

SMC performs extensive Social Media Outreach & Announcement Activities. Public service announcement related to IEPA’s NPDES Stormwater Program or Stormwater BMPs are included in SMC’s watershed E-News. SMC also utilizes social media and coordinates with the Lake County Department of Transportation (LCDOT) to post watershed identification signage in watersheds where watershed planning activities have occurred or are occurring.

Measurable Goal(s):

- Include public service announcements related to IEPA's NPDES Stormwater Program or stormwater BMPs in watershed E-News at least once each year.
- Post watershed identification signage in cooperation and collaboration with LCDOT.
- Provide information via social media (Facebook and Twitter).

A.4 Outreach Events

SMC sponsors and co-sponsors educational and technical training workshops on a variety of stormwater management-related topics. Each year, SMC will sponsor or co-sponsor at least one workshop on a topic related to IEPA's NPDES Stormwater Program, such as soil erosion and sediment control, illicit discharge detection and elimination, or stormwater best management practices (BMPs) that can be used to protect and improve water quality.

Measurable Goal(s):

- Sponsor or co-sponsor workshop on stormwater-related topics.
- Track workshops and events.

A.5 Classroom Education Material

Upon request, SMC will contribute to the development and compilation of material for inclusion in a stormwater education kit that can be distributed to local students and teachers and/or other local stakeholders. Additionally, upon request, SMC will provide information, materials, and training to local students and teachers and/or other local stakeholders interested in conducting storm drain stenciling.

Measurable Goal(s):

- Upon request, develop and compile materials for inclusion in a stormwater education kit.
- Upon request, provide information, materials, and training to local students and teachers and/or stakeholders interested in conducting storm drain stenciling.

A.6 Other Public Education

SMC maintains a website that contains a variety of materials and resources related to stormwater management. The website provide information about IEPA's NPDES Stormwater Program, provide information about stormwater best management practices (BMPs), allow for download of stormwater management-related publications and documents, provide notices of upcoming meetings and ongoing projects, includes watershed plans and watershed workgroup information, and provide links to a number of other stormwater management-related resources

Measurable Goal(s):

- Maintain and update the portion of the SMC website dedicated to IEPA's NPDES Stormwater Program with resources such as model ordinances, case studies, brochures, and links including information related to climate change.

- Make “The Big Picture: Water Quality, Regulations & NPDES” presentation available to Lake County MS4s.

B. Public Participation/Involvement

SMC will continue to support Lake County MS4s in the development and implementation of their stormwater management programs by performing activities related to the Public Participation/Involvement minimum control measure, as described below.

B.1 Public Panel

SMC provides procedural guidance and implements its Citizen Inquiry Response System (CIRS) for receiving and taking action on information provided by the public regarding post-construction stormwater runoff control. SMC coordinates and conducts public meetings as well as committee meetings that are open to the public.

Measurable Goal(s):

- Implement and provide guidance on existing CIRS procedures.
- Provide notice of public meetings on SMC website.
- Track number of meetings conducted

B.3 Stakeholder Meeting

SMC is actively involved in watershed planning throughout Lake County. SMC believes that the watershed planning process cannot happen and will not be successful without the input, interest, and commitment of the watershed stakeholders. Watershed stakeholders may include municipalities, townships, drainage districts, homeowner associations, lakes management associations, developers, landowners, and local, county, state, and federal agencies.

Measurable Goal(s):

- Provide notice of stakeholder meetings on SMC website.
- Track number of watershed committee meetings conducted.
- Establish watershed planning committees for each new watershed planning effort.

B.6 Program Involvement

Consistent with Lake County’s comprehensive, countywide approach to stormwater management, SMC serves as a Qualifying Local Program (QLP) for all Lake County MS4s. In this role, in 2002, SMC proactively formed the Municipal Advisory Committee (MAC) to provide a forum for representatives of local MS4s, which include municipalities, townships, and drainage districts, to discuss, among other topics, the implementation of IEPA’s NPDES Stormwater Program. SMC will continue to facilitate quarterly MAC meetings and will continue to provide general support to Lake County MS4s as they continue to develop and implement their stormwater management programs. SMC will prepare an annual report on its stormwater management activities and will provide guidance to Lake County MS4s in preparing their own annual reports.

Measurable Goal(s):

- Track number of MAC meetings conducted.

- Prepare annual report template for use by Lake County MS4s including a description of the Qualifying Local Program stormwater management activities.
- Prepare/maintain SMPP template for use by Lake County MS4s in creating their own SMPP.

C. Illicit Discharge Detection and Elimination

SMC will continue to support Lake County MS4s in the development and implementation of their stormwater management programs by performing activities related to the Illicit Discharge Detection and Elimination minimum control measure, as described below.

Note, however, that the primary responsibility for the implementation of the Illicit Discharge Detection and Elimination minimum control measure lies with the MS4.

Measurable Goal(s):

- Continue to make available information regarding prioritization of outfalls for illicit discharge screening activities.
- Continue to make available compiled GIS data related to the County's existing stormwater infrastructure (e.g. storm sewer atlases, stream inventories and detention basin inventories).

C.2 Regulatory Control Program

SMC provides local MS4s with model and example illicit discharge ordinances that prohibit all non-stormwater discharges, including illegal dumping, to the storm sewer system. Additionally, the WDO includes provisions that prohibit illicit discharges to the storm sewer system during construction (i.e., prior to final site stabilization) on development sites.

Measurable Goal(s):

- Provide model and example illicit discharge ordinances to Lake County MS4s.
- Continue to administer and enforce the WDO.

C.10 Other Illicit Discharge Controls

SMC regularly sponsors and co-sponsors educational and technical training workshops on a variety of stormwater management-related topics.

Measurable Goal(s):

- Sponsor or co-sponsor and track the number of attendees at an Illicit Discharge Detection and Elimination workshop or other training workshop related to IEPA's NPDES Stormwater Program.
- Distribute informational materials about the hazards of illicit discharges and illegal dumping from "take away" rack at SMC and SMC website.

D. Construction Site Runoff Control

Lake County has adopted a countywide Watershed Development Ordinance (WDO) that establishes the minimum stormwater management requirements for development in Lake County, including requirements for construction site runoff control.

D.1 Regulatory Control Program

The WDO is the regulatory mechanism that requires the use of soil erosion and sediment controls on development sites throughout Lake County. SMC has also created a Designated Erosion Control Inspector (DECI) program, a program designed to closely mirror the inspection requirements of IEPA's General NPDES Permit No. ILR10.

Measurable Goal(s):

- Continue to administer and enforce the WDO.
- Continue to administer the Designated Erosion Control Inspector (DECI) program outlined by the WDO.

D.2 Erosion and Sediment Control BMPs

§600 of the WDO specifies the soil erosion and sediment control measures that must be used in conjunction with any land disturbing activities conducted on a development site. SMC has maintains technical guidance documents to accompany the WDO.

Measurable Goal(s):

- Continue to administer and enforce the WDO.
- Continue to maintain technical guidance documents.

D.3 Other Waste Control Program

The WDO includes several provisions that address illicit discharges generated by construction sites. The applicant is required to prohibit the dumping, depositing, dropping, throwing, discarding or leaving of litter and construction material and all other illicit discharges from entering the stormwater management system.

Measurable Goal(s):

- Continue to administer and enforce the provisions of the WDO related to the control of waste and debris during construction on development sites.

D.4 Site Plan Review Procedures

A community's designated enforcement officer is responsible for reviewing and permitting development plans and for administering and enforcing the provision of the WDO. Within certified communities the responsibility lies with the MS4; within non-certified communities the designated enforcement officer is SMC's chief engineer. SMC administers this enforcement officer program, providing training on an as-needed basis to all enforcement officers to assist them in passing the exam, and maintains an up-to-date list identifying each community's designated enforcement officer. In addition to administering the enforcement officer program, SMC periodically reviews each community's WDO administration and enforcement records, using the results of such review to evaluate the performance of certified communities and designated enforcement officers.

Measurable Goal(s):

- Administer the Enforcement Officer (EO) program outlined by the WDO.
- Maintain an up-to-date list identifying each community's designated enforcement officer. (url:<https://lakecountyil.gov/2467/Enforcement-Officers>)

- Periodically review each community's WDO administration and enforcement records. Re-Certification Procedure. url:
(url:<https://lakecountyil.gov/DocumentCenter/Home/View/4244>)
- Continue to maintain technical guidance documents.

D.5 Public Information Handling Procedures

SMC provides a number of opportunities for the receipt and consideration of information submitted by the public.

Measurable Goal(s):

- Document and track the number of soil erosion and sediment control-related complaints received and processed by SMC.

D.6 Site Inspection/Enforcement Procedures

Article 11 of the WDO contains both recommended and minimum requirements for the inspection of development sites. Within certified communities, the community's designated enforcement officer is responsible for conducting these inspections; within certified communities, SMC's chief engineer is responsible for conducting these inspections. Article 12 of the WDO specifies the legal actions that may be taken and the penalties that may be imposed if the provisions of the WDO are violated

Measurable Goal(s):

- Document and track the number of site inspections conducted by SMC.

E. Post-Construction Runoff Control

As described above, Lake County has adopted a countywide Watershed Development Ordinance (WDO) that establishes the minimum stormwater management requirements for development in Lake County, including requirements for post-construction runoff control.

E.2 Regulatory Control Program

Proposed stormwater management strategies must address the runoff volume reduction requirements described in §503 of the WDO and must include appropriate stormwater BMPs to address the other applicable post-construction runoff control requirements of the WDO.

Measurable Goal(s):

- Continue to administer and enforce the WDO.

E.3 Long Term O&M Procedures

§401 of the WDO requires that maintenance plans be developed for all stormwater management systems and, §500 further details deed or plat restriction requirements for all stormwater management systems.

Measurable Goal(s):

- Continue to administer and enforce the WDO.

E.4 Pre-Construction Review of BMP Designs

As described above, a community's designated enforcement officer is responsible for reviewing and permitting development plans and for administering and enforcing the provisions of the WDO. This includes a review of the stormwater BMPs that will be used to meet the post-construction runoff control requirements of the WDO and adherence to the Runoff Volume Reduction standards of §503.

Measurable Goal(s):

- Continue to administer and enforce the WDO.

E.5 Site Inspections During Construction

As described above in MCM D.6 Article 11 of the WDO contains both recommended and minimum requirements for the inspection of development sites.

Measurable Goal(s):

- Continue to administer and enforce the WDO.

E.6 Post-Construction Inspections

SMC has collaborated on a number of watershed based plans throughout the County. These watershed plans included a stream and detention basin inventories. The plans also include a list of site specific best management practices within various communities based on an assessment of these inventories and other data. SMC is currently developing an application to assist communities in identifying potential project sites, recommended in adopted watershed plans, within their jurisdictional boundaries.

Measurable Goal(s):

- Continue to administer and enforce the WDO.
- Develop an application, for use by MS4s, to identify adopted watershed plan recommendations within their communities.

E.7 Other Post-Construction Runoff Controls

Through the Watershed Management Board (WMB), SMC provides partial funding for flood damage reduction and surface water quality improvement projects. The WMB, which includes representatives from the Lake Michigan, North Branch of the Chicago River, Fox River, and Des Plaines River watersheds, meets annually to review potential projects and to make recommendations on stormwater BMP project funding. Members of the WMB include chief municipal elected officials, township supervisors, drainage district chairmen, and county board members from each district found within each of Lake County's four major watersheds. The goal of the WMB program is to maximize opportunities for local units of government and other groups to have input and influence on the solutions used to address local stormwater management problems. Previous WMB-funded projects have reduced flooding, improved surface water quality, and enhanced existing stormwater management facilities throughout Lake County.

Measurable Goal(s):

- Conduct annual WMB meeting.

- Contribute funding to flood damage reduction and water quality improvement projects through the WMB.

URL: <http://www.lakecountyil.gov/3635/Watershed-Management-Board-WMB>

F. Pollution Prevention/Good Housekeeping

SMC will continue to support Lake County MS4s in the development and implementation of their stormwater management programs by performing activities related to the Pollution Prevention/Good Housekeeping minimum control measure, as described below. Note, however, that the primary responsibility for the implementation of the Pollution Prevention/Good Housekeeping minimum control measure lies with the MS4.

F.1 Employee Training Program

SMC will assist Lake County MS4s with the development and implementation of their employee training programs by maintaining a list of known employee training resources and opportunities, making available a software-based employee training program, and providing technical assistance to local MS4s. In addition, each year, SMC will sponsor or co-sponsor training workshops.

Measurable Goal(s):

- Maintain a list of known employee training resources and opportunities.
- Make available the Excal Visual Storm Watch: Municipal Storm Water Pollution Prevention software-based employee training program.
- Sponsor or co-sponsor a training workshop related to pollution prevention/good housekeeping or other training workshop related to IEPA's NPDES Stormwater Program.

F.5 Flood Management/Assess Guidelines

In working toward meeting its primary goals of flood damage reduction and surface water quality improvement, SMC follows a set of stormwater management policies that were created to define its roles and responsibilities for stormwater management in Lake County. One of these policies is to integrate multi-objective opportunities (e.g., flood damage reduction, surface water quality improvement, environmental enhancement) into SMC-sponsored projects. In accordance with this policy, SMC will evaluate all SMC-sponsored projects for multi-objective opportunities.

Measurable Goal(s):

- Track number of SMC-sponsored projects that are reviewed for multi-objective opportunity.

F.6 Other Municipal Operations Controls

SMC develops and distributes chloride reduction documents and materials. Each year, SMC will sponsor or co-sponsor at least one workshop on a topic related to winter de-icing. Lake County also publishes a "Lake County Winter Maintenance Preferred Providers" list. Providers included on this list have successfully completed a Lake County Deicing Training Workshop and passes the associated course exam.

Measurable Goal(s):

- Advise MS4 communities of watershed groups addressing issues associated with the use of chlorides (i.e. road salt).
- Sponsor or co-sponsor at least one workshop on a topic related to winter de-icing.
- Make available chloride reduction documents on take-away racks and the website.

Part E5. QLP Construction Projects Conducted During Year 14

Project Name	Project Size (acres)	Construction Start Date	Construction End Date
Bull Creek Restoration Project - Beach Park, IL	1.87	5/2016	11/2017
Strawberry Condo Drainage Improvements - North Chicago, IL	0.25	6/2016	10/2016
Floodplain Home Buyout - FMA FY14, 98 Keystone Dr., Fox Lake, IL	0.22	8/1/2016	8/31/2016
Floodplain Home Buyout - FMA FY15, 37 Medinah, Fox Lake, IL	0.15	8/1/2016	8/31/2016
Floodplain Home Buyout - HMGP 1935, 103 Lindenhurst, Lindenhurst, IL	0.21	10/15/2016	10/31/2016
Floodplain Home Buyout - HMGP 1935, 105 Lindenhurst, Lindenhurst, IL	0.26	10/15/2016	10/31/2016
Floodplain Home Buyout - HMGP 1935, 109 Lindenhurst, Lindenhurst, IL	0.53	10/15/2016	10/31/2016
Floodplain Home Buyout - HMGP 1935, 2000 Old Elm, Lindenhurst, IL	0.26	10/15/2016	10/31/2016
Floodplain Home Buyout - HMGP 1935, 2002 Old Elm, Lindenhurst, IL	0.25	10/15/2016	10/31/2016
Floodplain Home Buyout - HMGP 4116, 24655 River Shore, Cary, IL	0.44	9/1/2016	9/30/2016
Floodplain Home Buyout - HMGP 4116, 24762 N. Lagoon, Cary, IL	0.54	9/1/2016	9/30/2016
Floodplain Home Buyout - HMGP 4116, 1018 Kilbourne Rd, Gurnee, IL	0.42	9/1/2016	9/30/2016
Floodplain Home Buyout - HMGP 4116, 1001 Kilbourne Rd, Gurnee, IL	2.03	9/1/2016	9/30/2016
Floodplain Home Buyout - HMGP 4116, 26970 N. Grace, Wauconda, IL	0.22	9/1/2016	9/30/2016
Floodplain Home Buyout - HMGP 4116, 200 Park, Ingleside, IL	0.22	9/1/2016	9/30/2016
Floodplain Home Buyout - HMGP 4116, 26195 W. Mattalina, Ingleside, IL	0.45	9/1/2016	9/30/2016

Part F. Construction Projects Conducted During Year 14 by the Village of Lake Zurich

[illegible]