



LIBERTYVILLE TOWNSHIP

May 31, 2025

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 22 Annual Report
Libertyville Township MS4
Permit No. ILR40-0077**

To Whom it May Concern:

On behalf of Libertyville Township, 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 call me at (847) 816-6800.

Sincerely,
Libertyville Township

Kathleen M. O'Connor
Libertyville Township Supervisor

cc: epa.ms4annualinsp@illinois.gov
Jodi McCarthy, Manhard Consulting (1 Overlook Point, Suite 290, Lincolnshire, IL 60069)



Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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, 2024 To March, 2025

Permit No. ILR40 0077

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

Name: Libertyville Township Mailing Address 1: 359 Merrill Court
Mailing Address 2: _____ County: Lake
City: Arlington Heights State: IL Zip: 60048 Telephone: 8478166800
Contact Person: Kathleen O'Connor Email Address: koconnor@libertyvilletownship.us
(Person responsible for Annual Report)

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

Cook County
Libertyville Township

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))

May 31, 2025

Owner Signature:

Kathleen O'Connor

Printed Name:

Date:

Township Supervisor

Title:

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

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
2520 WEST ILES AVENUE
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

IL 532 2585
WPC 691 Rev 4/25

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.

MS4 Annual Facility Inspection Report

**Illinois Environmental Protection Agency
Annual Facility Inspection Report
for General Permit for Discharges from Small MS4s**

Village of Libertyville

Permit No. ILR40-0077



Permit Year 22: March 1, 2024 to March 1, 2025

Prepared by
Manhard Consulting
1 Overlook Point, Suite 290
Lincolnshire, IL 60069



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Part A. MS4 Changes to Best Management Practices, Year 22

Note: “X” indicates BMPs that were implemented in accordance with the MS4’s SMPP

✓ indicates BMPs that were changed during Year 22

Year 22		Year 22	
MS4		MS4	
A. Public Education and Outreach		D. Construction Site Runoff Control	
X	A.1 Distributed Paper Material		D.1 Regulatory Control Program
	A.2 Speaking Engagement	X	D.2 Erosion and Sediment Control BMPs
	A.3 Public Service Announcement		D.3 Other Waste Control Program
	A.4 Community Event		D.4 Site Plan Review Procedures
	A.5 Classroom Education Material		D.5 Public Information Handling Procedures
	A.6 Other Public Education	X	D.6 Site Inspection/Enforcement Procedures
			D.7 Other Construction Site Runoff Controls
B. Public Participation/Involvement		E. Post-Construction Runoff Control	
	B.1 Public Panel		E.1 Community Control Strategy
	B.2 Educational Volunteer		E.2 Regulatory Control Program
X	B.3 Stakeholder Meeting	X	E.3 Long Term O&M Procedures
X	B.4 Public Hearing		E.4 Pre-Const Review of BMP Designs
	B.5 Volunteer Monitoring	X	E.5 Site Inspections During Construction
	B.6 Program Coordination	X	E.6 Post-Construction Inspections
	B.7 Other Public Involvement		E.7 Other Post-Const Runoff Controls
C. Illicit Discharge Detection and Elimination		F. Pollution Prevention/Good Housekeeping	
X	C.1 Storm Sewer Map Preparation	X	F.1 Employee Training Program
X	C.2 Regulatory Control Program	X	F.2 Inspection and Maintenance Program
	C.3 Detection/Elimination Prioritization Plan		F.3 Municipal Operations Storm Water Control
	C.4 Illicit Discharge Tracing Procedures	X	F.4 Municipal Operations Waste Disposal
X	C.5 Illicit Source Removal Procedures		F.5 Flood Management/Assess Guidelines
	C.6 Program Evaluation and Assessment		F.6 Other Municipal Operations Controls
X	C.7 Visual Dry Weather Screening		
	C.8 Pollutant Field Testing		
	C.9 Public Notification		
	C.10 Other Illicit Discharge Controls		

This MS4 Program during the reporting year 3/2024-3/2025 for this Annual Facility Inspection Report:

- MS4 did not make any changes to Best Management Practices identified in the Notice of Intent submitted August 31, 2021, for Permit No. ILR40-0077.

Part B. MS4 Status of Compliance with Permit Conditions, Year 22

Stormwater Management Activities, Year 22

IEPA, please note that the issued version of its General NPDES Permit No. ILR40 (Permit) for Public Comment in September 2021, is not effective. We understand that the permit effective on March 1, 2016, is being administratively continued by the IEPA. On behalf of all MS4s within the county, the Lake County Stormwater Management Commission's Qualified Local Program performs activities related to each of the six minimum control measures which are described in detail in the SMPP. 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 (MEP) as watershed boundaries are not constrained by municipal borders.

- The SMPP for this MS4 Program can be viewed at the following link: <http://www.libertyvilletownship.us/resources/ms4-npdes-phase-ii>
- The NOI for this MS4 Program can be viewed at the following link: <http://www.libertyvilletownship.us/resources/ms4-npdes-phase-ii>
- The previous five years of Annual Reports for this MS4 Program can be viewed at the following link: <http://www.libertyvilletownship.us/resources/ms4-npdes-phase-ii>

A. Public Education and Outreach

Libertyville Township 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 include Township contact information to encourage residences to report environmental concerns.

Distribution of Educational Materials

Educational materials are distributed in the Township newsletter, on the Township website, at take-a-way racks in the Township office, at outreach events, and at scheduled meetings with the 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.
- Flooding, flood safety, basement flooding, flood control, and overhead sewers.
- Living Green Program.
- 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 way 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).
- Hazards associated with illegal discharges and improper disposal of waste and the way to report such discharges.

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

Measurable Goal(s):

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

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

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. Libertyville Township is a member community of this regional, intergovernmental agency. As a member, Township 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 Goal(s):

- Support and publicize SWALCO efforts.
- Continue the Township's special collection efforts and community programs.

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

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 Township 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 Goal(s):

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

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

B. Public Participation/Involvement

The Township's Public Participation and Involvement Program allows input from citizens during the development and implementation of the SWMP. Due to the COVID-19 pandemic, the permittee was limited in its ability to administer certain BMPs. BMPs were performed to the maximum extent practicable.

Public Review

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

Measurable Goal(s):

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

Year 22 Activities

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

Environmental Justice Areas

Environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. The USEPA has this goal for all communities and persons across the nation. It will be achieved when everyone enjoys the same degree of protection from environmental and health hazards, and equal access to the decision-making process to have a healthy environment in which to live, learn, and work.

The USEPA identifies potential environmental justice communities based on the percentage of low-income and/or minority populations in the Village compared to the statewide average. Areas that have greater than twice the statewide average may be considered a potential environmental justice community. If the low-income and/or minority population percentage is equal to or less than the statewide average, the community should not be considered a potential environmental justice community. The following web application was used to determine if the Village qualifies as an environmental justice community <https://ejscreen.epa.gov/mapper/index.html>. Three indicators were reviewed as follows:

- **Demographic Index:** An index based on the average of two demographic indicators; percent low-income and percent minority.

- **Percent Minority:** The percent of individuals in a block group who list their racial status as a race other than white alone and/or list their ethnicity as Hispanic or Latino.
- **Percent Low-Income:** The percent of a block group's population in households where the household income is less than or equal to twice the federal "poverty level."

The USEPA environmental justice website has been removed and the below data is representative of the previous permitting year. The Village determined that there are currently no areas within the Village that qualify as environmental justice areas.

Demographic Indicators	Village Statistic	State Average	Twice the Statewide Average	> Twice the State Average?
Demographic Index	13%	34%	68%	No
People of Color	14%	39%	78%	No
Low Income Population	11%	29%	58%	No

Measurable Goal(s):

- Complete the environmental justice screening annually. If any environmental justice areas are identified within the Township, ensure BMP efforts are targeted at these areas.

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

Complaints, Suggestions, and Requests

The Township 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. Program related calls are directed to the Township Supervisor, or designee.

Measurable Goal(s):

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

Year 22 Activities

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

Watershed Planning and Stakeholders Meetings

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

Measurable Goal(s):

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

Year 22 Activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

C. Illicit Discharge Detection and Elimination

Storm Sewer System Map

As required by the NPDES ILR40 permit, the Township developed a map of the storm sewer system identifying the location of all outfalls, and the names and location of all receiving waters. The storm sewer system map is meant to demonstrate a basic awareness of the 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 flow, and the particular waterbody these flows may be affecting. The outfall map is revised as needed to incorporate permitted outfalls associated with new developments.

Measurable Goal(s):

- Maintain the Townships storm sewer system map, updating annually.

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

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. SMC and the LCPBDD have adopted the Lake County WDO and UDO, respectively, and are responsible for review, permitting, inspection, and enforcement of the provisions of these ordinances.

Measurable Goal(s):

- Adhere to the requirements of the WDO.

Year 22 Activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.
- Assist SMC in ensuring that all applicable developments are in compliance with 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).

The Township's procedure for the identification of illicit discharges is included in Appendix D. Step-by-step instructions for identifying storm sewers suspected of containing pollutants, suggestions for actions to be taken to determine the sources of identified pollutants, and steps for correcting identified problems are provided. The results of these procedures are intended to serve as indicators of pollution, rather than to provide specific quantitative analysis. If the presence of pollutants is indicated, the detective work of identifying the source of the discharge can begin. Once the source is identified, it can then be corrected.

Measurable Goal(s):

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

Year 22 Activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

Public Notification

The Township provides educational material regarding illegal dumping of trash and used materials. Residents are encouraged to report illegal dumpers by calling the Township Office. The Township publicizes the phone number for the public to report illicit discharges and illegal dumping on outreach material and on the Township 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 Goal(s):

- Publicize the phone number on outreach material and on the Township website.
- Provide educational material on illicit discharges and illegal dumping on the Township website.

Year 22 Activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

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

SMC and the LCPBDD are responsible for the Construction Site Stormwater Runoff Minimum Control Measure. The Memorandum of Understanding is located in Part C of this report. The LCPBDD is responsible for compliance within areas of Unincorporated Lake County. The Lake

County UDO covers the criteria that are required to meet the application development standards and practices.

As a Qualifying Local Program, SMC is responsible for compliance within non-certified communities and township road right-of-way. The Lake County WDO covers the criteria that are required to meet the applicable development standards and practices.

The LCPBDD and/or SMC follows an inspection and violation notification procedure to ensure compliance with the approved plan. Applicants that hydrologically disturb greater than 1-acre are also required to seek coverage under the statewide NPDES ILR10 General Construction Permit by filing a Notice of Intent (NOI) with IEPA and copying the County.

Libertyville Township is currently a non-Certified Community with respect to the provisions of the WDO. Therefore, LCPBDD serves as the Enforcement Officer and is responsible for the review, permitting, inspection, and enforcement of the provisions of the ordinance within the Township. The Township assists the County in achieving compliance with these ordinances.

Applicants submit the completed forms, applications, and supporting documentation LCPBDD for review and comment. After all applicable provisions have been addressed, a permit is issued. Each permit lists any additional conditions that are applicable to the development. Ordinance provisions include, but are not limited to, the following:

- Grading, soil erosion and sediment control plan,
- Established inspection duties for the applicant and procedures for inspections,
- Record keeping and reporting procedures,
- Security deposits to ensure faithful performance,
- Enforcement measures to achieve compliance, and
- A one year warranty period, for applicable developments.

As part of the permit review process, applicants that hydrologically disturb greater than 1-acre are also required to seek coverage under the statewide construction general permit by filing a Notice of Intent (NOI) with IEPA. A copy of the NOI must be submitted to the LCPBDD and Township prior to commencement of any site work, including demolition. During construction, applicants are required to submit to 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.

Responsible Parties

The applicant is ultimately responsible for ensuring compliant soil erosion and sediment control measures on-site during construction. General contractors, sub-contractors and other hired employees of the applicant can assist the applicant in maintaining a compliant site; however the applicant remains the responsible party.

The LCPBDD Director shall be responsible for enforcing the Watershed Development Ordinance, unless otherwise specifically stated. Further, it is his charge to enforce all laws and ordinances relating to building, electricity, plumbing, subdivision and zoning in connection with construction, repair, alteration, removal, use, occupancy and maintenance of all buildings and structures and the use of streets or parkways in connection therewith. It is also his responsibility to make or cause to be made all inspections needed for that purpose.

Libertyville Township relies on Lake County to make necessary inspections. The Township assists Lake County staff as needed.

Site Plan Review

To build in Libertyville Township, the entity seeking to do so must submit the proper applications and permit fees to the LCPBDD and/or Lake County Health Department. The following procedure

for site plan review is undertaken and enforced by Lake County officials in accordance with the UDO:

- Applications for Site Development Permits shall be made in-person in the LCPBDD.
- LCPBDD staff shall review each Site Development Permit application and, within 30 days of receipt of a complete application, act to approve, approve with conditions or deny the application. Failure of the LCPBDD Director to act within the 30-day period shall constitute a denial of the application, unless the applicant agrees to an extension of time. If the applicant fails to provide information requested by the LCPBDD Director within 3 months of the request, the application shall be void, unless such time is extended by the LCPBDD Director.
- No Site Development Permit shall be issued by the LCPBDD Director unless the development, including but not limited to subdivisions and planned unit developments, has been approved by all applicable county agencies
- A request for commencement of grading activities may be made and the proposed grading activity may commence with written approval from the LCPBDD Director. The written approval will be in the form of a permit. The permit application will state the conditions and limitations of the proposed grading activities. No permit may be issued and no development activity may occur in a regulatory floodplain, wetland or in those portions of the site for which this Ordinance requires that state and federal permits be issued, except for Illinois Environmental Protection Agency sewer and water extension permits.

Measurable Goal(s):

- Ensure construction sites needing coverage under the NPDES Construction Site Storm Water ILR10 permit, WDO, or UDP obtain coverage.
- Assist Lake County in ensuring that all applicable developments are in compliance with the WDO.

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.
- Assist SMC in ensuring that all applicable developments are in compliance with the WDO.

Construction Site Inspections

In Libertyville Township, the following procedure is undertaken and enforced by LCPBDD officials in accordance with the UDO. The PBDD may inspect site development at any stage in the construction process. For major developments, the LCPBDD shall conduct site inspections, and a minimum, at the end of the construction stages a through g listed below. Construction plans approved by the LCPBDD shall be maintained at the site during progress of the work. In order to obtain inspection in accordance with the following schedule, the permittee shall notify the LCPBDD at least 2 full working days before the said inspection is to be made. Recommended inspection intervals are listed below:

- Upon completion of installation of sediment and runoff control measures (including perimeter controls and diversions), prior to proceeding with any other earth disturbance or grading,
- After stripping and clearing,
- After rough grading,
- After final grading,
- After seeding and landscaping deadlines,
- After every 7 calendar days or storm even with greater than 0.5 inches of rainfall
- After final stabilization and landscaping, prior to removal of sediment controls.

- If a wetland mitigation area is constructed as part of the watershed development permit, it is recommended that a Certified Wetland Specialist at a minimum perform the following inspection:
 - Inspection by a certified Wetland Specialist after mitigation areas have been final graded and before seeding or plant installation.
 - Inspection by a Certified Wetland Specialist after plant installation.
 - At a minimum, annual inspections by a Certified Wetland Specialist during the 5-year monitoring period for wetland mitigation areas.

Measurable Goal(s):

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

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.
- Assist SMC in ensuring that all applicable developments are in compliance with the WDO.

E. Post-Construction Runoff Control

Regulatory Program

Post Construction Runoff Control in Libertyville Township is regulated by Lake County in accordance with the UDO. The UDO contains extensive policies and procedures for regulating design and construction activities for protecting the County's receiving waters. The design and construction site practices selected and implemented by the responsible party for a given site are expected to meet BMP measures described in IEPA's Program recommendations. All proposed permanent storm water treatment practices must be reviewed and approved by the LCPBDD.

The UDO includes numerous performance standards on grading, storm water and soil erosion/sediment control that must be met for all parties undertaking construction. LCPBDD is responsible for ensuring that development designs for Libertyville Township meet all applicable performance standards required in their respective ordinances. Long term operation and maintenance plans are required for development in accordance with the UDO. These documents must be recorded against the property.

Measurable Goal(s):

- Document BMPs approved on development sites.
- Ensure maintenance plans are prepared for all storm water management systems as required by the UDO.

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.
- Assist SMC in ensuring that all applicable developments are in compliance with the WDO.

Storm Water Management Facility 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 Township 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 Goal(s):

- Maintain an inventory of all public and private storm water management facilities.
- Inspect 20% of all public and private storm water management facilities on an annual basis. Recommend remedial actions as appropriate.

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

F. Pollution Prevention/Good Housekeeping

The Township is responsible for the care and upkeep of Township-owned property, roads, and maintenance yards. Many maintenance activities are performed by Township staff; however, contractors are employed to perform specific activities. The Township 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 Township.

The Township 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. Libertyville Township 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 Township's maintenance yard and disposed in a conventional

landfill. The Highway Department is currently responsible for administering the Township's Catch Basin/Inlet Cleaning BMP.

The Township 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 Township Highway Commissioner. Necessary remedial actions are completed by a contractor or incorporated into a capital project.

Measurable Goal(s):

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

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

Material Storage

Uncovered materials such as salt, wood, sand, stone, gravel, etc. have the potential to contaminate storm water when exposed to rain and/or runoff. Tarp, plastic sheeting, roofs, buildings, and other enclosures are examples of temporary or permanent coverings that are effective in preventing storm water contamination. Covering is necessary for loading/unloading areas; raw material, byproduct, and final product outdoor storage areas; fueling and vehicle maintenance areas; and other high-risk areas.

Measurable Goal(s):

- Conduct monthly pollution prevention inspections at the Township Facility.

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

Street Sweeping

The Township 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 Highway Department is responsible for the street sweeping program for the Township.

Measurable Goal(s):

- Maintain current street sweeping practices.

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

Landscape Maintenance

The Township Supervisor, or designee, oversees maintenance of landscaping at Township facilities, along Township roads, and in maintenance yards. The Township Supervisor, or designee, is also responsible for the Township'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. Landscape contractors are required to meet the NPDES MS4 training requirements and ensure that they adhere to the Township's SWMP.

Measurable Goal(s):

- Manage the use of pesticides and fertilizers in a way that minimizes the volume of storm water runoff and pollutants.
- Ensure landscape contractors utilized by the Township meet NPDES MS4 training requirements.

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

Snow Removal and Ice Control

Libertyville Township's Highway Department handles snow and ice removal on Township 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: Township 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 Goal(s):

- 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.

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

Vehicle and Equipment Maintenance

All vehicle and equipment operations including fueling and maintenance are performed at the Lake County Complex.

Measurable Goal(s):

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

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

Waste Management

Waste Management consists of implementing procedural and structural practices for handling, storing, and disposing of wastes generated by Township 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 Stockpile: 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 Highway Department maintains oversight of hazardous waste generated by the Township. Containerized hazardous waste materials are disposed of or recycled through a contract arrangement with a third-party hazardous waste disposal firm.

Measurable Goal(s):

- Properly handle, store, and dispose of wastes generated by Township maintenance activities.

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

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:



Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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, 2024 To March, 2025

Permit No. ILR40 0077

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

Name: Libertyville Township Mailing Address 1: 359 Merrill Court
Mailing Address 2: _____ County: Lake
City: Arlington Heights State: IL Zip: 60048 Telephone: 8478166800
Contact Person: Kathleen O'Connor Email Address: koconnor@libertyvilletownship.us
(Person responsible for Annual Report)

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

Cook County
Libertyville Township

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))

May 31, 2025

Owner Signature:

Kathleen O'Connor

Printed Name:

Date:

Township Supervisor

Title:

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

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
2520 WEST ILES AVENUE
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

- 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 Highway Department or Police Department implement the following procedure:

- Sandbag 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 Highway Department is notified, and appropriate citations issued.

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

- Call 911, explain the incident. The Fire Department responds.
- Township 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 Goal(s):

- Implement the Spill Response Plan outlined above.

Year 22 MS4 activities:

- The Township continues to implement the BMPs described in its SWMP and to track progress in implementing its stormwater management program.

Stormwater Management Program Assessment, Year 22

The MS4 revised their SMPP to coincide with the March 2016 ILR40 permit. As described in the revised SMPP there are extensive monitoring efforts already underway across the County, refer to Part C of this report for additional information. The QLP section of the report describes the Status of Lake County waters using information gathered by active workgroups and the Lake County Health Department along with a discussion on TMDL status within the County. The Status of Lake County Waters provides insight as to the overall effectiveness of countywide efforts to improve water quality. As an active MS4 within the County, the countywide findings reflect the individual efforts of each MS4. Additionally, the SMPP identified impaired waters based on the June 2022 303(d) list. The inclusion or exclusion of water bodies on the IEPAs 303(d) list, published bi-annually, is a direct reflection of the program's effectiveness.

Year 22
March 2024 - February 2025

LIBERTYVILLE TOWNSHIP
MS4 STORMWATER
DOCUMENTATION LOG



Public Education and Outreach			
Description	Date	Distribution	Target Audience
A link to SWALCO is provided on the Township's website.	ongoing	Website	Residents
A link to the Lake County Forest Preserve District is provided on the Township's website.	ongoing	Website	Residents
Libertyville Township Stormwater Management Program	ongoing	Website	Residents
"Ten Ways Homewoners Can Improve the Quality of Stormwater Runoff" brochure	ongoing	Website	Residents
"Need Fertilizer? Go slow!" brochure	ongoing	Website	Residents
University of Illinois Extension - Lake County Master Gardeners	ongoing	Website	Residents
Protect Our Waterways section on website	ongoing	Website	Residents
Pollutants: Their Sources and Impacts section on website	ongoing	Website	Residents
How residents can reduce stormwater pollution section on website.	ongoing	Website	Residents
Information about the MS4 NPDES Phase II Program, the requirements, why it is necessary and what it entails.	ongoing	Website	Residents
Village Newsletters			
Spring Newsletter: - Information on Street Sweeping Program - Information on stormwater projects - Curbside Recycling Guidelines - Recycle Coach	Spring	E-newsletter	Residents
Summer Newsletter: - Information on Eco-Friendly Summer Tips - Mosquito Control	Summer	E-newsletter	Residents
Fall Newsletter: - Information on Leaf Cleanup - Information on "How Idle Minds and Idling Cars Impact the Air" - Pumpkin Smash - Flood and Drain Programs	Fall	E-newsletter	Residents
Winter Newsletter: - Information on Snow and Ice Control	Winter	E-newsletter	Residents

Public Participation & Involvement

Location	Date	Topic	Staff
DesPlaines River Watershed Workgroup Meeting	11.29.23	IEPA Comment on NARP	J. Happ
A link to SWALCO is provided on the Libertyville Township Website.	ongoing	Recycling and household hazardous waste.	N/A
Open Space Volunteer Work Day	ongoing	Recycling and solid waste management.	N/A

Illicit Discharge Detection and Elimination



The Township's outfalls are inspected annually to find potential illicit discharges and connections. Outfalls are visually inspected during dry conditions (i.e. no precipitation within the preceding 72 hours), photographed and data reported on an outfall inspection form. A full report including location maps, inspection forms, site photographs, and summary tables was prepared. A total of 15 outfalls were inspected in 2024. No potential illicit discharges were identified at any of these locations.



Construction Site Runoff Control	
Construction Developments and Activities	Dates
N/A - Township does not regulate development. See PROJECTS section for Township sponsored projects	

Post Construction Site Runoff Control	
Description of Post-Construction BMP Inspection/Maintenance	Dates
4 Detention/retention basins and 15 outfall locations inspected over one day in 2024-2025. A summary report was prepared and reviewed by Township staff.	12.19.24

Pollution Prevention / Good Housekeeping

Description	Units	Total	2024										2025	
			Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb
Herbicide Applied for Grounds and Open Space	Ounces	13974.7	64.0	631.6	2393.3	1545.2	2516.5	2890.3	3879.6				54.2	
Street Cleaning	Miles	18.0	9.0			2.0	2.0					5.0		
Street Sweeping Material Disposed	Cu Yards	15.0				10.0						5.0		
Catch Basins Cleaned	Each	154.0	3.0	8.0	20.0	15.0	15.0	20.0	25.0	20.0	18.0	10.0		
Amount of Material Removed from Catch Basins	Cu Yards	22.0	2.0	3.0	2.0	1.0	2.0	1.0	1.0	5.0	3.0	1.0	0.0	1.0
Salt Used*	Tons	179.3	30.0								11.3	23.0	30.0	85.0
Calcium Chloride*	Gallons	0.0												
Sand Used	Tons	0.0												
Brine Used	Gallons	425.0	100.0									100.0	75.0	150.0

* Only Road District deicing material totals reported. Township usage is on separate individual forms due to the minimal amount used.

** See monthly tracking forms for details on locations and products

Projects > 1 Acre

Regulated Entity Name	Project Update/Major Work
Donnelley Prairies and Oaks Wetland Mitigation Bank, Libertyville Township, 100 plus acres, USACE permit, Lake County Planning, Building & Zoning permit, & Libertyville Township Road District permit	

Water Quality Testing								
MLK Location Results (Middle Fork of the North Branch of the Chicago River – Upstream)								
Parameter	Accepted Limits	Test Results						
		2018	2019	2020	2021	2022	2023	2024
Chloride	500.00 mg/L	71	255	235	580	178	178	163
Phosphorous, Total	0.05 mg/L	0.040	0.062	0.035	0.266	0.055	0.141	0.084
Total Suspended Solids	15.0-30.0 mg/L	12.0	5.1	2.6	66.3	4.8	41.8	17.0
Total Nitrogen	<20.0	<5.0	5.00	1.00	1.00	1.00	1.34	5.00
Dissolved Oxygen	March – July at least 5.0 mg/L	4.15	7.80	8.83	9.20	8.39	10.62	8.95
	August – February at least 3.5 mg/L							
Total Dissolved Solids	1000.0 mg/L	274.0	726.3	681.6	1330.0	574.4	686.0	510.7
Temperature	December – March 60.0 °F Max	79.45	62.23	47.85	69.35	52.29	40.54	57.06
	April – February 90.0 °F Max							
Conductivity	50.00-1500.0 µs/cm	427	1134	1065	2078	897	1074	798
pH	6.5 – 9.0	7.46	7.96	8.15	8.02	7.59	7.76	7.87
Fats, Oils, and Grease	100 mg/L	<5.0	5.0	5.0	5.0	5.0	5.0	5.0
Fecal Coliform	400 colonies/100 ml	390	350	620	490	2000	6400	670
Turbidity	<50 NTU	219.80	9.23	12.42	28.00	24.37	39.81	8.93

Water Quality Testing								
Trail Location Results (Middle Fork of the North Branch of the Chicago River – Downstream)								
Parameter	Accepted Limits	Test Results						
		2018	2019	2020	2021	2022	2023	2024
Chloride	500.00 mg/L	3	194	154	516	135	154	173
Phosphorous, Total	0.05 mg/L	0.090	0.052	0.046	0.091	0.052	0.070	0.098
Total Suspended Solids	15.0-30.0 mg/L	2.0	2.4	82.7	6.7	15.0	74.7	18.0
Total Nitrogen	<20.0	<5.0	5.00	1.00	1.00	1.00	1.24	5.00
Dissolved Oxygen	March – July at least 5.0 mg/L	5.60	8.74	9.19	8.51	10.10	8.57	7.49
	August – February at least 3.5 mg/L							
Total Dissolved Solids	1000.0 mg/L	128.0	626.6	568.4	1339.0	547.9	544.7	628.5
Temperature	December – March 60.0 °F Max	81.76	61.37	47.20	69.98	52.8	43.37	56.32
	April – February 90.0 °F Max							
Conductivity	50.00-1500.0 µs/cm	199	979	555	2092	856	850	982
pH	6.5 – 9.0	7.39	7.86	8.04	8.04	7.73	7.64	7.56
Fats, Oils, and Grease	100 mg/L	<5.0	5.0	5.0	5.0	5.0	5.0	5.0
Fecal Coliform	400 colonies/100 ml	1300	1200	900	1400	1200	1300	1300
Turbidity	<50 NTU	24.04	8.41	12.42	36.50	37.11	70.10	10.22

Water Quality Testing								
River Location Results (Des Plains River – Upstream)								
Parameter	Accepted Limits	Test Results						
		2018	2019	2020	2021	2022	2023	2024
Chloride	500.00 mg/L	89	117	131	171	137	197	126
Phosphorous, Total	0.05 mg/L	0.13	0.48	0.406	0.659	0.172	0.112	0.261
Total Suspended Solids	15.0-30.0 mg/L	13.0	2.20	25.3	6.7	11.0	6.0	19.0
Total Nitrogen	<20.0	<5.0	5.00	5.89	15.80	3.12	10.60	9.52
Dissolved Oxygen	March – July at least 5.0 mg/L	5.09	7.95	8.72	8.36	7.75	11.71	8.24
	August – February at least 3.5 mg/L							
Total Dissolved Solids	1000.0 mg/L	372.0	542.20	564.5	677.8	583.8	725.4	546.7
Temperature	December – March 60.0 °F Max	79.01	62.46	53.04	70.74	53.94	45.77	59.70
	April – February 90.0 °F Max							
Conductivity	50.00-1500.0 µs/cm	372	847	882	1059	912	1132	854
pH	6.5 – 9.0	7.60	7.76	8.27	8.13	7.38	7.95	7.70
Fats, Oils, and Grease	100 mg/L	<5.0	5.0	5.0	5.0	5.0	5.0	5.0
Fecal Coliform	400 colonies/100 ml	220	350	3,800	700	1400	1300	3400
Turbidity	<50 NTU	108.10	17.89	43.96	53.80	52.63	7.53	4.49

Water Quality Testing								
Park Location Results (Des Plains River – Downstream)								
Parameter	Accepted Limits	Test Results						
		2018	2019	2020	2021	2022	2023	2024
Chloride	500.00 mg/L	157	113	129	178	149	239	141
Phosphorous, Total	0.05 mg/L	0.130	0.335	0.361	0.487	0.383	0.105	0.213
Total Suspended Solids	15.0-30.0 mg/L	5.0	20.0	4.2	11.4	16.0	10.0	7.4
Total Nitrogen	<20.0	<5.00	5.00	6.77	11.40	8.77	10.40	9.98
Dissolved Oxygen	March – July at least 5.0 mg/L	6.61	7.27	9.55	14.43	9.00	11.04	8.40
	August – February at least 3.5 mg/L							
Total Dissolved Solids	1000.0 mg/L	369.0	534.7	578.3	674.2	624.8	769.4	569.1
Temperature	December – March 60.0 °F Max	78.70	63.99	52.57	70.03	57.24	45.79	59.34
	April – February 90.0 °F Max							
Conductivity	50.00-1500.0 µs/cm	576	935	903	1053	976	1203	889
pH	6.5 – 9.0	7.75	7.75	8.39	8.12	7.56	7.73	7.91
Fats, Oils, and Grease	100 mg/L	<5.0	5.0	-	5.0	5.0	5.0	5.0
Fecal Coliform	400 colonies/100 ml	1,100	330	630	200	1700	1200	2000
Turbidity	<50 NTU	65.60	16.55	18.13	67.30	46.19	11.66	3.67

Water Quality Testing								
Valley Location Results (Bull Creek – Upstream)								
Parameter	Accepted Limits	Test Results						
		2018	2019	2020	2021	2022	2023	2024
Chloride	500.00 mg/L	54	207	168	325	138	201	121
Phosphorous, Total	0.05 mg/L	0.090	0.056	0.054	0.054	0.044	0.036	0.073
Total Suspended Solids	15.0-30.0 mg/L	29.0	58.0	3.2	2.3	10.0	4.6	8.4
Total Nitrogen	<20.0	<5.0	5.00	1.00	1.20	1.00	1.23	5.00
Dissolved Oxygen	March – July at least 5.0 mg/L	6.90	8.11	10.57	9.20	9.72	8.13	8.50
	August – February at least 3.5 mg/L							
Total Dissolved Solids	1000.0 mg/L	265.0	661.3	600.9	871.7	533.4	880.7	469.6
Temperature	December – March 60.0 °F Max	77.07	59.80	49.69	67.83	53.05	44.96	57.34
	April – February 90.0 °F Max							
Conductivity	50.00-1500.0 µs/cm	414	1033	939	1362	833	1376	733
pH	6.5 – 9.0	7.74	7.80	8.54	8.01	7.70	8.13	7.75
Fats, Oils, and Grease	100 mg/L	<5.0	5.00	-	5.0	5.0	5.0	5.0
Fecal Coliform	400 colonies/100 ml	360	670	830	2300	1300	320	700
Turbidity	<50 NTU	228.20	37.40	30.25	37.40	29.05	8.26	4.32

Water Quality Testing								
Brookhill Location Results (Bull Creek – Downstream)								
Parameter	Accepted Limits	Test Results						
		2018	2019	2020	2021	2022	2023	2024
Chloride	500.00 mg/L	91	158	128	250	133	212	128
Phosphorous, Total	0.05 mg/L	0.050	0.050	0.051	0.090	0.080	0.035	0.065
Total Suspended Solids	15.0-30.0 mg/L	19.0	4.6	1.3	7.1	9.2	15.0	9.8
Total Nitrogen	<20.0	<5.0	5.00	1.00	1.00	1.00	1.13	5.00
Dissolved Oxygen	March – July at least 5.0 mg/L	5.91	8.83	9.61	8.79	9.17	8.08	8.24
	August – February at least 3.5 mg/L							
Total Dissolved Solids	1000.0 mg/L	380.0	586.0	523.8	809.7	553.4	676.3	520.2
Temperature	December – March 60.0 °F Max	77.95	60.46	50.64	68.06	53.01	43.41	56.76
	April – February 90.0 °F Max							
Conductivity	50.00-1500.0 µs/cm	593	915	818	1265	865	1056	813
pH	6.5 – 9.0	7.89	7.95	8.44	8.06	7.64	8.08	7.9
Fats, Oils, and Grease	100 mg/L	<5.0	5.0	5.0	5.0	5.0	5.0	5.0
Fecal Coliform	400 colonies/100 ml	220	1400	1100	400	2100	310	570
Turbidity	<50 NTU	115.90	21.27	57.30	49.10	33.78	15.60	3.40

Employee Training

Description of Training Event	Location	Date	Village Staff Attendees
Forestry Webinar - Tree Planting and Pruning	Online	2.12.2025	J. Happ, M. Cardenas, B. Renz & K. Slaybaugh
NBWW General Membership Meeting - NARP Update	Lake Forest	2.19.25	J. Happ, M. Cardenas, B. Renz & K. Slaybaugh
IACD Conference - General ecological topics	Starved Rock	2.20 - 2.21.2025	J. Happ, M. Cardenas, B. Renz & K. Slaybaugh
Forestry Webinar - Biotic and Abiotic Stressors	Online	2.26.24	J. Happ, M. Cardenas, B. Renz & K. Slaybaugh
Wetland Mitigation Bank Meetings - field observations, plug zones, & trail decisions	Casey North	4/16, 5/1, 5/27, 5/28/24	J. Happ all meetings/K. O'Connor on 5/28
NBWW General Membership Meeting - NARP Update	Lake Forest	8.14.24	J. Happ
DRWW General Membership Meeting - general	Mundelein	8.15.24	J. Happ
Army Corps of Engineer Meeting/Wetland Mitigation Bank	Casey North	9.23.24	J. Happ & K. O'Connor
MOBI Webinar - Reivew of how to use Map of Biological Importance Web application	Virtual	9.24.24	J. Happ, M. Cardenas, B. Renz & K. Slaybaugh
S130/190, ICS-100	Virtual	10.21.24	Wildland Fire Training

Part C. MS4 Information and Data Collection Results, Year 22

The IEPA's General NPDES Permit No. ILR40 includes a monitoring requirement in order to gauge the effect of stormwater discharges on the physical/habitat-related aspects of the receiving waters, and/or monitoring the effectiveness of BMPs. The Permit described various potential methods to meet this requirement. This section of the Annual Report should summarize any monitoring or sampling data that was collected during the reporting period to comply with this monitoring requirement.

Annual Monitoring and Data Collection, Year 22

Information and data that the MS4 collected to meet the monitoring requirement of the version of IEPA's General NPDES Permit No. ILR40 that applied to the reporting period are summarized below.

In compliance with the deicing activities permitting requirement in the General NPDES Permit No. ILR40, Part III, Item D, this MS4 satisfies the permit requirement of participating in the watershed group(s) by maintaining membership in the following workgroup(s):

- The Des Plaines River Watershed Workgroup (DRWW)
- The North Branch Watershed Workgroup (NBWW)

The following is a brief summary of the efforts described in more detail in the SMPP.

- The Des Plaines River Watershed Workgroup (DRWW) monitors water quality in the Des Plaines River and tributaries to accurately identify the quality of the river ecosystems as well as stressors associated with non-attainment of water quality standards and designated uses. The Workgroup's mission is to bring together a diverse coalition of stakeholders to work together to improve water quality in the Des Plaines River and its tributaries in a cost-effective manner to meet Illinois EPA requirements. During the YR22 reporting period, DRWW's monitoring program included Water Quality sampling and analysis at 73 Monitoring Locations for 2024. Analysis and reporting of 2022 fish, habitat, macroinvertebrate, and sediment chemistry were completed June 2024. An annual water chemistry monitoring report was submitted to Illinois EPA on behalf of DRWW members for 2023 monitoring on March 27, 2024, and for 2024 monitoring on March 31, 2025, which covers the NPDES II monitoring requirements for MS4 communities that are DRWW members. The DRWW submitted the DRWW Nutrient Assessment Reduction Plan (NARP) to the Illinois EPA on December 29, 2023. The DRWW and its members look forward to continuing discussions with the Illinois EPA during this next phase. Current DRWW member list is located at (URL: <http://www.drww.org/members>).
- The North Branch Watershed Workgroup (NBWW) monitors water quality in the North Branch Chicago River and tributaries to accurately identify the quality of the river ecosystems as well as stressors associated with non-attainment of water quality standards and designated uses. 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 all 25 sites for water column chemistry. The NBWW will continue to support the North Branch Watershed Planning Committee and the North Branch Watershed Consortium through regular discussion at general meetings. An annual water chemistry monitoring report was submitted to Illinois EPA on behalf of NBWW members for 2023 monitoring on January 23, 2024, and for 2024 monitoring on February 12, 2025, which covers the NPDES II monitoring requirements for MS4 communities that are NBWW members. The NBWW continues to progress on developing a NBWW Nutrient Assessment Reduction Plan (NARP) based on the NBWW NARP Workplan submitted to the Illinois EPA on December 31, 2021. Progress made on the NBWW NARP is

summarized in the annual water chemistry monitoring report submitted to the Illinois EPA. The NBWW completed a 2018-2023 Water Quality Summary Report for NBWW members to utilize to assess water quality trends for different water quality parameters. The NBWW has continued to coordinate with the Illinois EPA on the progress of the NBWW NARP Workplan and NARP development (deadline December 31, 2025). Current NBWW member list is located at (URL: www.nbwwil.org).

- The LCHD Ecological Services Department has been collecting water quality data on Lake County lakes since the late 1960s. Since 2000, 176 different lakes 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 (URL: <https://www.lakecountyil.gov/2400/Lake-Reports>).

Part D. MS4 Summary of Year 23 Stormwater Activities

The table below indicates the stormwater management activities that the MS4 plans to undertake during Year 23. Additional information about the stormwater management activities that the MS4 will perform is provided in the section following the table.

Note: “X” indicates BMPs that will be implemented during Year 23

✓ indicates BMPs that were changed during Year 23

Year 23	
MS4	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
	A.3 Public Service Announcement
	A.4 Community Event
	A.5 Classroom Education Material
	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
	B.6 Program Coordination
	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	C.3 Detection/Elimination Prioritization Plan
	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 23	
MS4	
D. Construction Site Runoff Control	
	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
	D.3 Other Waste Control Program
	D.4 Site Plan Review Procedures
	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
	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
	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
	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

Stormwater Management Activities, Year 23

As described in Part B above, a significant enhancement to the SMPP is the inclusion of Chapter 3.1 Qualified Local Program. On behalf of all MS4s within the county, SMC performs activities related to each of the six minimum control measures which are described in detail in the SMPP. These BMPs, implemented at the county level, make significant strides in achieving the statutory goal of reducing the discharge of pollutants to the MEP as watershed boundaries are not constrained by municipal borders. As such, a significant portion of the stated MS4 measurable goals is to support QLP efforts.

During Year 23, the MS4 plans to continue to support and supplement QLP efforts, as described in detail in the MS4's SMPP and in brief below.

During Year 23, the MS4 plans to review and update its NOI and stormwater management plan as needed to recognize new permit conditions for which the MS4 can complete to the maximum extent practicable.

A. Public Education and Outreach

The Township 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 include Township contact information to encourage residences to report environmental concerns. The Township plans to continue to implement the following BMPs as outlined in the Township's SWMP:

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

Measurable Goal(s):

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

B. Public Participation/Involvement

The Township 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 Township plans to continue to implement the following BMPs as outlined in the Township's SWMP:

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

Measurable Goal(s):

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

C. Illicit Discharge Detection and Elimination

The Township is committed to perform activities related to the illicit discharge component of its SWMP. The Township plans to continue to implement the following BMPs as outlined in the Township's SWMP:

- Storm Sewer System Map
- Visual Dry Weather Inspection Program
- Public Notification

Measurable Goal(s):

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

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. The WDO, which is administered and enforced by Lake County, establishes standards for construction site runoff control. The Township will Assist Lake County in ensuring that all applicable developments are in compliance with the WDO.

Measurable Goal(s):

- Assist Lake County in ensuring that all applicable developments are in compliance with the WDO.

E. Post-Construction Runoff Control

As described above, the countywide WDO establishes the minimum stormwater management requirements for development in Lake County. The WDO establishes standards for post construction site runoff control. These standards apply to any new development or redevelopment resulting in over 0.5 acres of new impervious area. The Township's SWMP also includes inspection procedures for streambanks and detention/retention ponds.

Measurable Goal(s):

- Assist Lake County in ensuring that all applicable developments are in compliance with the WDO.

F. Pollution Prevention/Good Housekeeping

Libertyville Township is committing to implementing the Pollution Prevention/Good Housekeeping component of its SWMP. This minimum control measure involves the development and implementation of an operation and maintenance program to reduce the discharge of pollutants from Township operations. This program must include a training program for municipal employees. The Township also follows the Storm Water Pollution Prevention Plan (SWPPP) prepared for the public works facility and conducts monthly and annual inspections. Libertyville Township will continue to implement their SWMP which includes a training program for employees. The Township 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 Township will continue to evaluate "sensible salting" procedures relating to a reduction in chloride use. The Township will conduct regular inlet/catch basin cleaning and street sweeping. The Township plans to continue to implement the following BMPs as outlined in the Township's SWMP:

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

Measurable Goal(s):

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

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 22 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 22.
- **Part E3** summarizes the information and data collected by the QLP during Year 22.
- **Part E4** describes the stormwater management activities that the QLP plans to undertake during Year 23.
- **Part E5** lists the construction projects conducted by the QLP during Year 22.

Part E1. QLP Changes to Best Management Practices, Year 22

Note: “X” indicates BMPs that were implemented as planned
✓ indicates BMPs that were changed during Year 22

Year 22	
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 22	
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

Part E2. QLP Status of Compliance with Permit Conditions, Year 22

IEPA issued its General NPDES Permit No. ILR40 effective March 1, 2016 (the first day of Year 14). SMC reviewed the 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 that it provides to Lake County communities in August 2016; the final draft was provided in November 2016. SMC has provided annual updates to the template since 2016.

Please note the permit effective on March 1, 2016, expired on February 28, 2021, and is currently being administratively continued by the IEPA. In order to comply with the General NPDES Permit No. ILR40 issued in 2016, the Year 21 Annual Reporting Template includes updates on SMC QLP activities, DRWW and NBWW activities, and various text references of the 2016 permit.

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 22 are described below.

A. PUBLIC EDUCATION AND OUTREACH

A.1 Distributed Paper Material

Measurable Goal(s):

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

Year 22 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.
- During Year 22 SMC distributed over 2,100 paper informational materials during public outreach, community events, stakeholder meetings, and its "take-away" rack. The materials consisted of a variety of topics related to stormwater management, water quality, flood mitigation, and winter best management practices.

A.2 Speaking Engagement

Measurable Goal(s):

- Provide educational presentations related to Illinois EPA's NPDES Stormwater Program at MAC meetings. Upon request, provide educational presentations related to Illinois EPA's NPDES Stormwater Program to Lake County MS4s.
- Upon request or download "The Big Picture: Water Quality, Regulations & NPDES" to Lake County MS4s.

Year 22 QLP activities:

- SMC continued to provide and make available NPDES related information on our website, social media platforms, and email distribution list.
- SMC continued to provide educational presentations related to Illinois EPA's NPDES Stormwater Program at MAC meetings on April 2, 2024 and November 20, 2024.
- SMC staff hosted the 2024 Homeowners Association Workshop and Vendors Expo on September 12, 2024. SMC staff presented the following topics:
 - Stormwater Facility Maintenance
 - Watershed Management Board Grant Program

- SMC staff presented at the Annual All-Natural Hazard Mitigation Plan meeting held on November 20, 2024
- SMC staff presented at the DECI 101 Webinar: Introduction to the Designated Erosion Control Inspector Program held on January 18, 2025
- SMC staff presented at the Kane-DuPage Soil & Water Conservation District Stream Diversion & Causeways Workshop on a panel January 29, 2025
- SMC staff presented the following topics at the Enforcement Officer-Certified Wetland Specialist (EO-CWS) Workshop on January 22, 2025
 - Permitting for Permeable Surface Development, Artificial Turf Fields, and Permeable Pavements
 - Commercial Solar Farm Development
 - Threatened and Endangered Species Compliance Requirements for WDO Permitting
 - Updates available on Maps Online

A.3 Public Service Announcement

Measurable Goal(s):

- Include public service announcements highlighting community accomplishments related to IEPA's NPDES Stormwater Program on social media platforms and via email list distributions.
- Post watershed identification signage with LCDOT on Roads maintained by the Lake County Dept. of Transportation.

Year 22 QLP activities:

- SMC included announcements highlighting community accomplishments related to IL EPA's NPDES Stormwater Program on its website, in its monthly newsletter, and through other media outlets ([SMC Annual Reports | Lake County, IL](#)).
- SMC continued to coordinate with LCDOT on maintaining watershed identification signage on roads maintained by the LCDOT.
- Watershed identification signage is located throughout the county.
 - Signage updates and name change awareness was provided to Lake County residents during SMC meetings and email notifications based on the USGS renaming of Squaw Creek to Manitou Creek in Lake County. Corrected identification signage has been posted throughout the county.

A.4 Community Event

Measurable Goal(s):

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

Year 22 QLP activities:

SMC sponsored or co-sponsored many workshops and events on stormwater-related topics, including:

- SMC sponsored the hybrid 2024 Homeowners Association Workshop and Vendor's Expo held on 09/12/2024 (48 In-person and 30 virtual participants)
- SMC co-sponsored nine (9) winter best management practices (de-icing) workshops with over 1,300 participants and one (1) in-person calibration event with sixteen (16) participants in the Northeastern Illinois region:
 - Winter Best Practices (De-icing) Workshop for Public Roads (6): September 17, 2024 (In-person), September 24, 2024 (In-person), October 3, 2024 (In-person), October 8, 2024 (virtual), October 15, 2024 (virtual), and November 19, 2024 (virtual).
 - Winter Best Practice (De-icing) Workshop for Parking Lots and Sidewalks (3): September 26, 2024 (virtual), October 1, 2024 (In-person), and November 13, 2024 (virtual).
 - Lake County Calibration Event (In-person): October 23, 2024

- SMC sponsored an education table for It's Our Fox River Day (IOFRD) Port Barrington RiverFest on 9/21/2024. Two (2) SMC staff participated; fifty-four (34) attendees visited the education table during the course of the event.
- SMC sponsored one (1) DECI 101 Webinar held on 1/18/2025 (88 participants), one (1) Designated Erosion Control Inspector (DECI) Workshop held on 2/11/2025 (320 participants), and one (1) Make-Up DECI Workshop on 3/21/2024 (59 participants).
- SMC sponsored one (1) hybrid Enforcement Officer & Certified Wetland Specialist Workshop held on 01/22/2025 (28 In-person and 113 virtual participants).

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 22 QLP activities:

- SMC continues to offer educational stormwater materials.

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.

Year 22 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, ([National Pollution Discharge Elimination System \(NPDES\) Phase II | Lake County, IL](#)).
- SMC continued to update and maintain an ArcGIS geospatial web tool for Lake County MS4 programs that indicates TMDL, 303(b), 305(d), HUC-12 watershed information and other information within an MS4 defined boundary, ([Lake County MS4 Community Information Tool](#)).
- SMC maintained an ArcGIS geospatial web tool for Lake County watersheds where inventoried, allowing the public to see inventory's of ravine, stream and detention basin information ([Watershed Planning Documents | Lake County, IL](#)).
- SMC maintained an ArcGIS geospatial web tool for Lake County Des Plaines River Watershed Water Quality Improvement Project recommendations, ([Des Plaines River Watershed-Based Plan](#)).
- SMC maintained an ArcGIS geospatial web tool for Lake County North Branch Chicago River Watershed Water Quality Improvement Project recommendations, ([North Branch Watershed-Based Plan](#)).
- SMC maintained reference documents for stormwater best practices, BMPs and green infrastructure practices on its website, ([Stormwater Best Practices | Lake County, IL](#)).
- SMC continued to make available via the Lake County SMC website, Community Awareness Illicit Discharge Education and Elimination Videos. The online videos are available in English and Spanish; English version, ([Nov 01, 2018 Illicit Discharge Education and Elimination](#)); Spanish version ([Nov 01, 2018 Video de Eliminación y Educación de Descargas Ilícitas](#)).
- SMC staff maintained a webpage reference resource to Lake County citizens and organizations. The website identifies a list of potential funding sources that communities can utilize and pursue based on the function and characteristic of their project goals: last updated August 2023 ([Funding Sources | Lake County, IL](#)).
- SMC made the following videos available to the public on its County YouTube channel:
 - Park City Capital Improvement Project Finalized – June 10, 2024 ([Park City Capital Improvement Project Finalized - June 10, 2024](#))
 - Sylvan Lake Dam Modifications Ceremonial Groundbreaking ([Sylvan Lake Dam Modifications Ceremonial Groundbreaking](#))

- Sylvan Lake Dam Modifications Ceremonial Groundbreaking – Full Version ([Sylvan Lake Dam Modifications Ceremonial Groundbreaking - Full Version](#))
- SMC INFLOW Webinar Tutorial ([SMC INFLOW Webinar Tutorial](#))
- 2024 Homeowner Association Workshop ([2024 Homeowners Association Workshop](#))
- SMC 2024 Homeowners Association Workshop Quick Clip ([SMC 2024 Homeowners Association Workshop Quick Clip](#))
- A How-to Calibration Event for Winter Maintenance Vehicles ([A How to Calibration Event for Winter Maintenance Vehicles](#))
- Winter Maintenance and Best Practices Annual Workshop Explained ([Winter Maintenance and Best Practices Annual Workshop Explained](#))
- Round 2.0 DCEO Grants in Action ([GlideActive GG v8 1 16 9 c thanh duocvanviet hoangpham](#))
- 2025 Designated Erosion Control Inspector 101 Training ([2025 Designated Erosion Control Inspector 101 Training](#))
- SMC distributed (11) Mainstream Newsletter via email distribution to 52,464 recipients with an opening rate of 54%.
- SMC distributed (9) NPDES related informational emails to 1,908 recipients with an opening rate of 73%.
- SMC distributed (78) stormwater related informational emails to 255,245 recipients with an opening rate of 66%.
- SMC continues to maintain website outreach to the Lake County Community.
 - The following SMC webpages had the following visitors in Year 22:
 - Stormwater Management Commission | Lake County, IL- 7,399 total views
 - Local Watersheds | Lake County, IL- 1,010 views
 - Watershed Development Ordinance Program | Lake County, IL- 3,476 views
 - Stormwater Best Practices | Lake County, IL- 955 views
 - National Pollution Discharge Elimination System (NPDES) Phase II | Lake County, IL- 185 views

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 22 QLP activities:

- Notice of all public meetings continued 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 (SMC) Board meetings, Technical Advisory Committee (TAC) meetings, Municipal Advisory Committee (MAC), and Watershed Management Board (WMB) meetings conducted during Year 22. Per records, there were (10) SMC Board meetings, (4) TAC meetings, (2) MAC meetings, and (1) WMB meetings were conducted.
- 4 CIRS community inquiries were received and processed by SMC staff.

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 22 QLP activities:

- Notice of all stakeholder meetings continued to be provided on the SMC website and e-mails to stakeholder lists.

- SMC hosted two (2) public meetings informing stakeholders of the update of the Lake County Comprehensive Stormwater Management Plan.
- 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 22:
 - Des Plaines River Watershed Workgroup held two (2) General Membership meetings – August 15, 2024, and February 20, 2025. Including (8) Executive Board, (8) Monitoring Committee, and (3) Lakes Committee meetings.
 - Des Plaines River Watershed Workgroup released a newsletter in May 2024 & an annual accomplishments January 2025.
 - North Branch Chicago River Watershed Workgroup held two (2) General Membership meetings – August 14, 2024 and February 19, 2025. Including (8) Executive Board and (6) Monitoring Committee meetings.
 - North Branch Chicago River Watershed Workgroup released a newsletter in January 2025.
 - SMC continued 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 22.
- Prepare annual report on Qualifying Local Program activities at end of Year 22.

Year 22 QLP activities:

- SMC tracked the number of Municipal Advisory Committee (MAC) meetings: According to records, there were (2) MAC meetings conducted during this reporting period (04/02/2024 and 11/20/2024).
- The stormwater management activities that SMC performed as a QLP 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 23 are described in Part E4 of the Year 22 Annual Report template.

C. ILLICIT DISCHARGE DETECTION AND ELIMINATION

C.2 Regulatory Control Program

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 22 QLP activities:

- SMC continued to enforce the countywide WDO.
- SMC continued to provide the Lake County Illicit Discharge Detection and Elimination (IDDE) Manual on the SMC website, ([Microsoft Word - IDDE_Guidance_Manual_1106.doc](#)).

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 22 QLP activities:

- SMC sponsored or co-sponsored trainings, workshops, and events on stormwater-related topics. Such training, workshops, and events are described below.
- SMC continues to make available the Excal Visual "IDDE - A Grate Concern" software to Lake County MS4s. During the reporting period there were four (4) registrants.
- SMC continued to make available on the Lake County SMC website, Community Awareness Illicit Discharge Education and Elimination Training Videos. The online videos are available

in English and Spanish; English version, ([Nov 01, 2018 Illicit Discharge Education and Elimination](#)); Spanish version ([Nov 01, 2018 Video de Eliminación y Educación de Descargas Ilícitas](#)).

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 22 QLP activities:

- SMC continued to enforce the countywide WDO.
- SMC continued to administer the Designated Erosion Control Inspector (DECI) program as outlined by the WDO, ([Designated Erosion Control Inspector Program \(DECI\) | Lake County, IL](#)).
 - Total DECIs who have passed the exam (to date): 956.
 - DECIs who have passed the exam between 03/01/2024 – 03/01/2025: 40.
 - Total listed DECIs (to date): 249 (DECI completed certification process).
 - DECIs have a recertification process every three (3) years. Current cycle 2023-2026.

D.2 Erosion and Sediment Control BMPs

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 22 QLP activities:

- SMC continued to enforce the countywide WDO.
- SMC continued to provide technical guidance and reference materials to support the administration and enforcement of the countywide WDO.
- SMC staff distributed 50 precipitation weather notifications. The rainfall reports indicate county rain events with observed precipitation for guidance on construction site runoff SE/SC inspections.

D.3 Other Waste Control Program

Measurable Goal(s):

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

Year 22 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.

Year 22 QLP activities:

- SMC continued 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 22, there are 28 EOs certified in Lake County.
- The list of EOs representing Certified Communities is continually updated and is maintained on the SMC website, ([Enforcement-Officer-Contact-List-PDF](#)).
- In accordance with the amended countywide WDO, the certification process is every 5 years, ([Community Certification | Lake County, IL](#)). The community re-certification process includes a performance review of all 53 certified and non-certified communities for permitted development compliance.
- SMC continued to update the website to include guidance information to supplement 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 (SE/SC).

Year 22 QLP activities:

- SMC continues to track the number of complaints received and processed related to soil erosion and sediment control as a component of inspections.

D.6 Site Inspection/Enforcement Procedures

Measurable Goal(s):

- Track number of site inspections conducted by SMC.

Year 22 QLP activities:

- SMC continues to track the number of site inspections conducted by SMC staff.
- According to records, 907 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 22 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 22 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 22 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 22 QLP activities:

- SMC continues to enforce the countywide WDO.

E.6 Post-Construction Inspections

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 22 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 22 QLP activities:

- The annual WMB meeting was held on November 20, 2024.
- At the annual WMB meeting, eight (8) Projects were selected to receive \$189,150 of funding through the SMC grant program. These projects include planning and in-the-ground project efforts that support flood hazard reduction, drainage and water quality improvement, and stormwater retrofit projects.

- 8 WMB project grants awarded.
- 2 projects referred to the Stormwater Infrastructure Repair Fund (SIRF) grant program for funding.
- 2 projects referred to the Maintenance program for funding.

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 “Storm Watch: Municipal Stormwater Pollution Prevention Everyday Best Management Practices” training video and testing.
- Make available the Excal Visual “IDDE - A Grate Concern” training video and testing.

Year 22 QLP activities:

- SMC continued to provide information on training opportunities and training resources for Lake County MS4s.
- SMC continued to make available the Excal Visual “Storm Watch Municipal Stormwater Pollution Prevention” software to Lake County MS4s. During the reporting period there were five (5) registrants.
- SMC continued to make available the Excal Visual “IDDE - A Grate Concern” software to Lake County MS4s. During the reporting period there were four (4) registrants.

F.5 Flood Management/Assess Guidelines

Measurable Goal(s):

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

Year 22 QLP activities:

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

F.6 Other Municipal Operations Controls

Winter Roadway De-Icing

Measurable Goal(s):

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

Year 22 QLP activities:

- SMC co-sponsored nine (9) winter best management practices (de-icing) workshops with over 1,000 participants and one (1) in-person calibration event with sixteen (16) participants in the Northeastern Illinois region.
- SMC continued to make available chloride reduction documents.
 - Too Much Salt in Our Winter Maintenance Recipe - Tips for Managing Snow and Ice at Home, ([Residential Factsheet.pub](#)).
 - Lake County Winter Parking Lot and Sidewalk Maintenance Manual, ([Basic Strategies](#)).
 - Winter Maintenance Practices and the Environment ([Winter-Maintenance-Practices-and-the-Environment-PDF](#))
 - Less Salt Equals Less Money, Clean Water, Safe Conditions - Tips for Effective Road Salting, ([Commercial Factsheet.pub](#)).

Part E3. QLP Information and Data Collection Results, Year 22

The QLP did not collect any monitoring data on behalf of Lake County's MS4s during Year 22. However, SMC has reviewed information presented by the Illinois EPA (IL EPA) in the Illinois Integrated Water Quality Report and 303(d) List, 2024 Draft and has developed the brief "State of Lake County's Waters" report provided below.

State of Lake County's Waters March 2025

This brief report is based on information contained in the Illinois EPA's 2024 Draft Illinois Integrated Water Quality Report (IIWQR) and Section 303(d) List (dated June 2024) that was partially approved by the U.S. EPA. IL EPA submitted its 2024 Section 303(d) list to the U.S. EPA on October 2, 2024. U.S. EPA evaluated IL EPA's submission and determined that it was not fully consistent with the requirements of Section 303(d) of the CWA and the U.S. EPA's implementing regulations. On December 11, 2024, U.S. EPA partially approved and partially disapproved IL EPA's 2024 303(d) list submission. The purpose of the IIWQR 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 2024 Illinois Integrated Water Quality Report and Section 303(d) List and U.S. EPA's Partial Approval of Illinois' 2024 303(d) List of Impaired Waters.

The IL EPA's Draft 2024 IIWQR and Section 303(d) List assesses the condition of surface water within streams, inland lakes, and Lake Michigan waters. The IL EPA 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 of designation is accomplished 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 IL EPA 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 the 2024 impaired streams to the 2020/2022 impaired streams indicates new pollutants added to four (4) stream segments from the 2024 303(d) list previously not listed in the 2020/2022 303(d) list:

Table E3.1 Stream Segments: Pollutants added to 2024 303(d) list, not previously listed in 2020/2022			
Assessment ID	Name	Cause	New Use Attainment Impairment Added
IL_DTK-04	Nippersink Creek	Cause Unknown	Aquatic Life Use
IL_G-08	Des Plaines River	Cause Unknown	Aquatic Life Use
IL_G-08	Des Plaines River	Fecal Coliform	Primary Contact Use
IL_HCCB-05	West Fork North Branch Chicago River	Cover Loss, pH	Aquatic Life Use
IL_HCCC-02	Middle Fork North Branch Chicago River	Cover Loss, pH	Aquatic Life Use

An analysis of the 2024 impaired streams to the 2020/2022 impaired streams indicates listed pollutants removed from seven (7) stream segments from the 2024 303(d) list that were previously listed in the 2020/2022 list:

Table E3.2 Stream Segments: Pollutants removed from 2024 303(d) list, previously listed in 2020/2022			
Assessment ID	Name	Parameter Code Name	Reason for Removal
IL_DT-06	Fox River	Dissolved Oxygen	No standard violation in new data for 2024 cycle
IL_DT-22	Fox River	Chloride, Copper	No standard violation in new data for 2024 cycle
IL_DT-22	Fox River	Fecal Coliform	Segment is Fully Supporting for 2024 cycle
IL_DTK-04	Nippersink Creek	Dissolved Oxygen	No standard violation in new data for 2024 cycle
IL_G-08	Des Plaines River	Dissolved Oxygen	No standard violation in new data for 2024 cycle
IL_HCCB-05	West Fork North Branch Chicago River	Endrin, Flow Alteration, Stream Alteration	No standard violation in new data for 2024 cycle
IL_HCCC-02	Middle Fork North Branch Chicago River	Habitat Alteration, Stream Alteration	No standard violation in new data for 2024 cycle

Lakes

An analysis of the 2024 impaired lakes to the 2020/2022 impaired lakes indicates new pollutants added to one (1) lake previously not listed in the 2020/2022 303(d) list are located in Lake County:

Table E3.3 Inland Lakes: Pollutants added to 2024 303(d) list, not previously listed in 2020/2022			
Assessment ID	Name	Cause	New Use Attainment Impairment Added
IL_WGZJ	STERLING	Mercury, Dieldrin	Fish Consumption

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.

Along Illinois' Lake Michigan coastline, two of the 13 harbors assessed in the 2024 IIWQR and Section 303(d) list are located in Lake County.

Table E3.4 Use Attainments of Lake Michigan Harbors in Lake County: 2024 data vs. 2020/2022 data				
Assessment ID	Name	2024 303(d) data	2020/2022 303(d) data	Summary:
IL_QH	North Point Marina Harbor	Fully Supporting: Aquatic Life, Aesthetic Quality, Primary Contact Not Supporting: Fish Consumption Not Assessed: N/A	Fully Supporting: Aquatic Life, Aesthetic Quality Not Supporting: Fish Consumption Not Assessed: Primary Contact	Added in 2024: Fully Supporting Primary Contact

IL_QZO	Waukegan Harbor	Fully Supporting: Aesthetic Quality, Primary Contact Not Supporting: Aquatic Life, Fish Consumption Not Assessed: N/A	Fully Supporting: Aquatic Life, Aesthetic Quality Not Supporting: Fish Consumption Not Assessed: Primary Contact	Added in 2024: Not Supporting Aquatic Life, Fully Supporting Primary Contact
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Appendix A-3 of the IIWQR, lists potential causes of impairment in the harbors of Lake Michigan that can include polychlorinated biphenyls (PCBs) and mercury.

Table E3.5 Causes of Impairment of Lake Michigan Harbors in Lake County: 2020/2022 data				
Assessment ID	Name	2024 303(d) data	2020/2022 303(d) data	Summary:
IL_QH	North Point Marina Harbor	Mercury, Polychlorinated biphenyls	Mercury, Polychlorinated biphenyls	No change.
IL_QZO	Waukegan Harbor	Mercury, Polychlorinated biphenyls, Temperature	Mercury, Polychlorinated biphenyls, Zinc	Added in 2024: Temperature

Appendix A-3 of the IIWQR, lists potential causes of impairment to Lake Michigan Shoreline Waters that can include E. coli, polychlorinated biphenyls (PCBs), and mercury. Aquatic Life Use and Aesthetic Quality Use is Not Assessed.

IL Beach State Park North IL_QH-03	IL Beach State Park South IL_QH-09	Lake Bluff Beach IL_QI-06
Lake Forest Beach IL_QI-10	North Point Beach IL_QH-01	Park Ave. Beach IL_QJ-05
Rosewood Beach IL_QJ	Waukegan North Beach IL_QH-04	Waukegan South Beach IL_QH-05

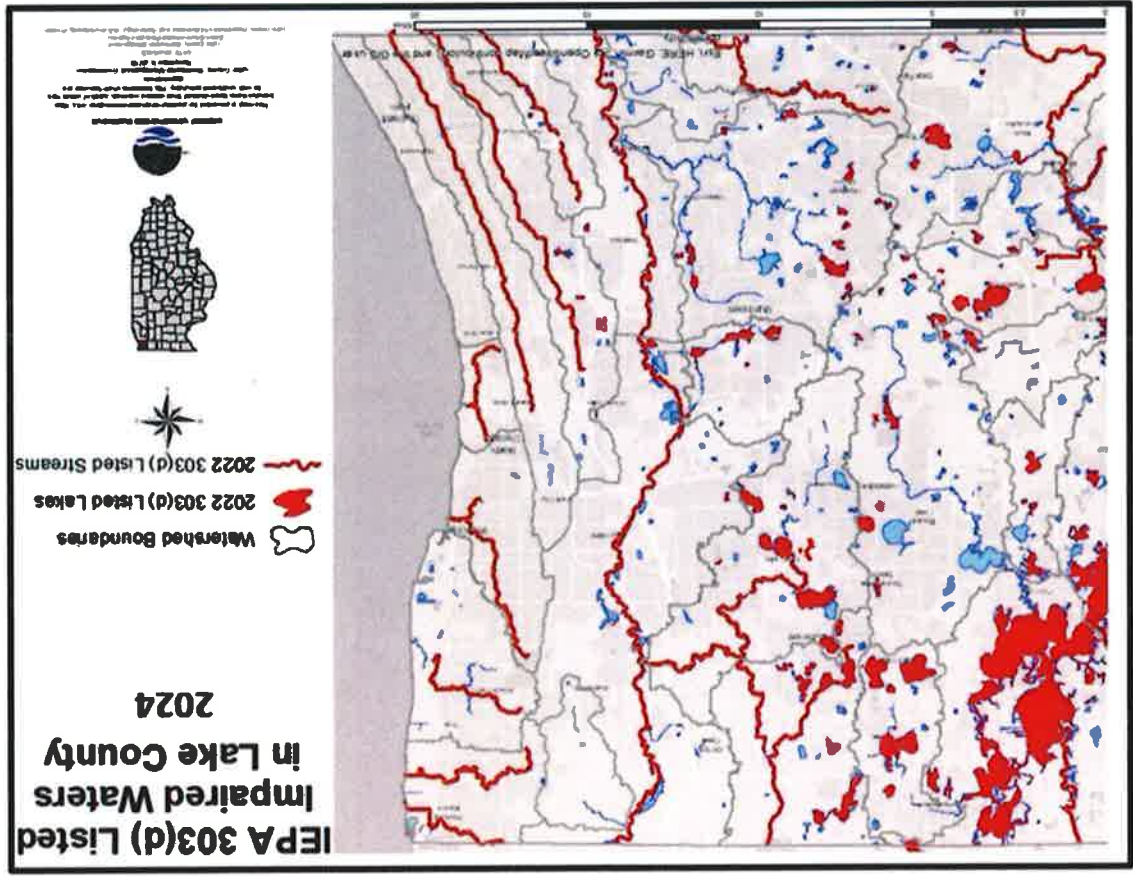


Figure E3.1
Note: 2024 303(d) GIS data is unavailable for public use. Map represents 2020/2022 303(d) available GIS data.

Monitoring

The **Des Plaines River Watershed Workgroup (DRWW)** monitors water quality in the Des Plaines River and tributaries to accurately identify the quality of the river ecosystems as well as stressors associated with non-attainment of water quality standards and designated uses. The Workgroup's mission is to bring together a diverse coalition of stakeholders to work together to improve water quality in the Des Plaines River and its tributaries in a cost-effective manner to meet Illinois EPA requirements. During the YR22 reporting period, DRWW's monitoring program included Water Quality sampling and analysis at 73 Monitoring Locations for 2024. Analysis and reporting of 2022 fish, habitat, macroinvertebrate, and sediment chemistry were completed June 2024. An annual water chemistry monitoring report was submitted to Illinois EPA on behalf of DRWW members for 2023 monitoring on March 27, 2024, and for 2024 monitoring on March 31, 2025, which covers the NPDES II monitoring requirements for MS4 communities that are DRWW members. The DRWW submitted the DRWW Nutrient Assessment Reduction Plan (NARP) to the Illinois EPA on December 29, 2023, and looks forward to continuing discussions with the Illinois EPA during this next phase. Current DRWW member list is located at (<http://www.drww.org/members>).

The **North Branch Chicago River Watershed Workgroup (NBWW)** monitors water quality in the North Branch Chicago River and tributaries to accurately identify the quality of the river ecosystems as well as stressors associated with non-attainment of water quality standards and designated uses. 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 all 25 sites for water column chemistry. The NBWW will continue to support the North Branch Watershed Planning Committee and the North Branch Watershed Consortium through regular discussion at general meetings. An annual water chemistry monitoring report was submitted to Illinois EPA on behalf of NBWW members for 2023 monitoring on January 23, 2024, and for 2024 monitoring on February 12, 2025, which covers the NPDES II monitoring requirements for MS4 communities that are NBWW members. The NBWW continues to progress on developing a NBWW Nutrient Assessment Reduction Plan (NARP) based on the NBWW NARP Workplan submitted to the Illinois EPA on December 31, 2021. Progress made on the NBWW NARP is summarized in the annual water chemistry monitoring report submitted to the Illinois EPA. The NBWW completed a 2018-2023 Water Quality Summary Report for NBWW members to utilize to assess water quality trends for different water quality parameters. The NBWW has continued to coordinate with the Illinois EPA on the progress of the NBWW NARP Workplan and NARP development (deadline December 31, 2025). Current NBWW member list is located at (<https://www.nbwwil.org/about-us/members/>).

The **LCHD Ecological Services Department** has been collecting water quality data on Lake County lakes since the late 1960s. Since 2000, 176 different lakes 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 on the Lake County Health Department website, ([Lake Reports | Lake County, IL](#)). 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 23 Stormwater Activities

The table below indicates the stormwater management activities that the QLP plans to undertake during Year 23. Additional information about the BMPs and measurable goals that the QLP will implement during Year 23 is provided in the section following the table.

Note: “X” indicates BMPs that will be implemented during Year 23

Year 23	
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 23	
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 23, 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 most recent effective 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 to Lake County MS4s.

A.3 Public Service Announcement

SMC performs extensive Social Media Outreach & Announcement Activities. Public service announcements related to IEPA’s NPDES Stormwater Program or Stormwater BMPs are posted periodically on SMC’s social media platforms and sent via email list distributions. SMC also coordinates with the Lake County Department of Transportation (LCDOT) to distribute information regarding watershed identification signage in watersheds where watershed planning activities have occurred or are occurring.

Measurable Goal(s):

- Include public service announcements highlighting community accomplishments related to IL EPA’s NPDES Stormwater Program or stormwater BMPs on social media platforms and via email list distributions.
- Post watershed identification signage in cooperation and collaboration with LCDOT on roads maintained by the Lake County Dept. of Transportation.
- Provide information in its newsletter, via social media (Facebook and Twitter), and through other media outlets ([SMC Annual Reports](#) | [Lake County, IL](#)).

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 provides 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 IL EPA'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.
- Make available via the Lake County SMC website, Community Awareness Illicit Discharge Education and Elimination Videos. The online videos are available in English and Spanish; English version, ([Nov 01, 2018 Illicit Discharge Education and Elimination](#)); Spanish version ([Nov 01, 2018 Video de Eliminación y Educación de Descargas Ilícitas](#)).

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 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 maintains technical guidance resources and 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.
- Periodically review each community's WDO administration and enforcement records. Re-Certification Procedure.
- 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.
- Watershed Planning Status Map, ([Lake-County-Watershed-Based-Plan-Status-Map](#)).
- Lake County Watershed Based Plans, ([Lake-County-Watershed-Map-PDF](#)).

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.

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.
- Make available the Excal Visual IDDE: A Grate Concern 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 21

Project Name	Project Size (acres)	Construction Start Date	Construction End Date
Park City Flood Mitigation Storm Sewer, Park City	1.25	8/2023	9/2024
Talbot Avenue Drainage Improvements, Shields Township	0.54	5/2023	9/2024
Wildwood Area Stormwater Infrastructure Improvements, Warren Township	2.0	8/2023	9/2024
Sylvan Lake Dam	0.41	6/2024	Ongoing

Part F. MS4 Construction Projects Conducted During Year 22

Project Name	Project Size (acres)	Construction Start Date	Construction End Date
Liberty Junction		04/06/2022	On-Going
Northern Lakes Equine Practice		07/26/2024	On-Going
Lake County DOT Fuel Island Replacement		05/15/2024	On-Going
Butler Lake Park		08/22/2024	On-Going
31780 Almond Drive		09/05/2024	On-Going
Oak Spring Road Bridge Replacement		01/20/2024	On-Going