Illinois Environmental Protection Agency

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

Division of Water Pollution Control
ANNUAL FACILITY INSPECTION REPORT
for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

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

Report Period: From March, 2020 To March, 2021

Permit No. ILR40 0285

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

Name: Village of Barrington - Public Works Mailing Address 1: 302 N Raymond Ave.

Mailing Address 2: County: Lake

City: Barrington State: IL Zip: 60010 Telephone: 847-381-7903

Contact Person: Mike Casper Email Address: mcasper@barrington-il.gov
(Person responsible for Annual Report)

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

Village of Barrington Lake County

THE FOLLOWING ITEMS MUST BE ADDRESSED.

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

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

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))

Mike Casper
Owner Signature:

4.27.21
Date:

Mike Casper
Printed Name:

Plant Superintendent
Title:

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

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

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

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

Permit No. ILR40-0285
Permit Year 18: March 1, 2020 to March 1, 2021

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Appendix 2020-2021 Water Quality Report Data

Part A. MS4 Changes to Best Management Practices, Year 18

The Village of Barrington has committed to implementing Best Management Practices (BMPs) in accordance with the Village's Storm Water Management Plan (SWMP) dated March 2013 and revised March 2017. This plan reflects implementation of BMPs in accordance with the schedule below. No changes to the SWMP were made in Year 18.

Note: "X" indicates BMPs that were implemented in accordance with the MS4's SMPP
✓ indicates BMPs that were changed during Year 18

Year 18 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
X	A.6 Other Public Education
B. Public Participation/Involvement	
	B.1 Public Panel
	B.2 Educational Volunteer
	B.3 Stakeholder Meeting
X	B.4 Public Hearing
	B.5 Volunteer Monitoring
	B.6 Program Coordination
X	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
X	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
X	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 18 MS4	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

Part B. MS4 Status of Compliance with Permit Conditions, Year 18

The IEPA issued a new version of its General NPDES Permit No. ILR40 (Permit), effective on March 1, 2016. The Village revised the local Storm Water Management Plan (SWMP) in March 2017 to reflect the requirements of the new Permit. On behalf of all MS4s within Lake County, the Stormwater Management Commission (SMC) performs activities related to each of the six minimum control measures which are described in detail in the SWMP. The Village takes credit for these activities as a Qualifying Local Program. 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.

- The SWMP and previous five-years of Annual Reports for this MS4 Program can be viewed at the following link:
  https://www.barrington-il.gov/government/departments/development_services/stormwater_management.php

BMP 1: Public Education and Outreach	
Description	**Measurable Goals**
Distribute educational materials in the Village newsletter, on the Village website, at take-a-way racks in Village offices, at outreach events, and at scheduled meetings with the public.	Track amount of printed material consumed by the public
Maintain and update the portion of the website dedicated to storm water.	Maintain the web site.
Maintain and update links to websites related to the environment such as the Center for Neighborhood Technology, Environmental Protection Agency, Household Hazardous Waste Collection Schedule, and the Rain Garden Network.	*Maintain the web site
Post the Village's SWMP, Notice of Intent, current Annual Report, and the previous 5 years of Annual Reports on the Village website.	*Maintain the web site
Maintain Tree City USA designation from the Tree City USA program.	Maintain Tree City USA designation
Continue to promote and facilitate Arbor Day events.	Track number of attendees to events and track number of trees planted
Continue promotion and implementation of the Village's rain barrel rebate program.	Track number of rain barrel rebates provided
Support and publicize SWANCC and SWALCO efforts.	Maintain publicizing records
Continue the Village's special collection efforts and community programs.	Track amount of material collected
Continue to offer and promote refuse and recycling programs.	Track amount of material collected

Public Education and Outreach continues to increase awareness in the community for pollution prevention and opportunities to enhance water quality.

*A current NOI has not been published. An NOI was submitted in February 2021 and will be linked on the Village website.

BMP 2: Public Participation and Involvement	
Description	**Measurable Goal**
Present each year's Annual Report to the Village Board during an open meeting and encourage input from the public as to the adequacy of the SWMP.	*Maintain meeting minutes reflecting the presentation
Evaluate and incorporate comments received from the Village Board and the public.	Track comments received
Complete the environmental justice screening annually. If any environmental justice areas are identified within the community, ensure that BMP efforts are targeted at these areas.	**Provide screening results in the Annual Report
Encourage the submission of complaints, suggestions, and requests related to storm water by publicizing contact information on education materials and the Village website.	Track feedback received and responses

*The Village continues to welcome Public Participation and Involvement in stormwater pollution prevention. Contact information is regularly publicized and members of the public are encouraged to report complaints, suggestions, and requests which are tracked by the Village. The annual presentation was given to Village Board at the February 2021 Committee of the Whole meeting.

**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."

Using the USEPA environmental justice website noted above, the Village determined that there are currently no areas within the Village that qualify as environmental justice areas. The following table presents data polled in April 2021.

Table 1: EJ Screen Data May 2020

Demographic Indicators	Village Statistic	State Average	2x State Average	> 2x State Average?
Demographic Index	12%	34%	68%	No
Minority Population	15%	38%	76%	No
Low Income Population	9%	29%	58%	No

BMP 3: Illicit Discharge, Detection, and Elimination	
Description	**Measurable Goal**
Maintain the Village's storm sewer system map, updating annually.	Maintain the mapping system
Enforce the Village's Illicit Discharge Ordinance (Chapter 10 "Illegal Discharges and/or Illicit Connections to Municipal Storm Drainage System (MS4) Prohibited)	Document violations and enforcement action taken
Adhere to the requirements of the WDO.	Document permit applications and permits issued
Identify high priority outfalls. Conduct outfall inspections annually during periods of dry weather. Follow up on any observations of dry weather flow.	Document outfalls inspected, results, and additional actions if needed.
Maintain a database of industrial and commercial businesses that have a high potential for contributing to water pollution.	Maintain the database
Inspect 1/3 of facilities annually.	Document which facilities were inspected, results, and additional actions if needed.
Notify the IEPA of NPDES ILR00 Permit infractions and recommend enforcement actions, where appropriate.	*Document IEPA notifications

The Village continues to update and maintain storm sewer mapping in conjunction with outfall inspections. IDDE ordinance violations are prosecuted in accordance with the Municipal Code to achieve compliance.

*No illicit discharges were detected.

BMP 4: Construction Site Runoff Control	
Description	**Measurable Goal**
Publicize the Public Works Department phone number on outreach material and on the Village website.	Document reports submitted, inspections performed, and resulting actions
Provide educational material on illicit discharges and illegal dumping on the Village website.	Track number of downloaded documents.
Review site plans and issue permits in accordance with the Village Code.	Document permit applications received, and permits issued.
Ensure construction sites needing coverage under the NPDES Construction Site General Permit ILR10 obtain coverage prior to issuance of a Watershed Development Permit.	Document permit applications received, and permits issued.

The Village continues to enforce the Municipal Code and Watershed Development Ordinance for Construction Site Runoff Control.

BMP 5: Post Construction Storm Water Management in New Development and Redevelopment	
Description	**Measurable Goal**
Document and track site inspections on development sites. Keep files for 5 years.	Track site inspections and outcomes
Document BMPs approved on development sites.	Maintain maintenance plans for development sites
Ensure maintenance plans are prepared for all storm water management systems as required by the Village Code.	Maintain maintenance plans for development sites
Maintain an inventory of all public and private storm water management facilities.	Maintain the inventory
Inspect 20% of all public and private storm water management facilities on an annual basis. Recommend remedial actions as appropriate.	Track inspections performed annually and resulting actions
Evaluate the feasibility of retrofits and enhancements to storm water management facilities.	Document designs and installations completed.

The Village continues to maintain approved storm water management plans for permitted developments within the community.

BMP 6: Pollution Prevention / Good Housekeeping for Municipal Operations	
Description	**Measurable Goal**
Clean catch basins and inlets on an as needed basis.	Document the number and location of catch basins and inlets cleaned. Track the linear feet of storm sewer cleaned.
Report catch basins found to have structural deficiencies. Complete necessary repairs.	Document number of structures repaired.
Complete routine maintenance of the triple catch basin.	Document maintenance activities of the triple catch basin.
Conduct monthly pollution prevention inspections at the Public Works Facility.	Document monthly inspection results
Maintain current street sweeping practices.	Document the location and miles of street cleaned. Document the amount of material collected with street sweepers and disposed of.
Manage the use of pesticides and fertilizers in a way that minimizes the volume of storm water runoff and pollutants.	Document the amount of pesticides and fertilizers used.
Ensure landscape contractors utilized by the Village meet NPDES MS4 training requirements.	*Maintain list of contractors that meet the NPDES MS4 training requirements
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.	Document the amount of de-icing chemicals and salt used. Maintain list of staff that have completed the pre-season training.

	Document participation in watershed groups that address chlorides.
Continue to implement the procedures for vehicle and equipment maintenance.	Document materials removed by a private contractors including waste oil, antifreeze, batteries, and tires.
Properly handle, store, and dispose of wastes generated by Village maintenance activities.	Document the removal of wastes from the maintenance facility.
Require approval for special events to prohibit the dumping, depositing, dropping, throwing, discarding, or leaving of litter and all other illicit discharges from entering the storm water management system.	Document events and any illicit discharges.
Implement the Spill Response Plan.	Document the location, type, and action taken for spill events and any related illicit discharges.

Pollution prevention BMPs for Municipal Operations continue to be successfully implemented in accordance with the SWMP.

*This list has not been created and this item will be reviewed for future reports.

Part C. MS4 Information and Data Collection Results, Year 18

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 SWMP identified two impaired waters based on the July 2016 303(d) list. While the final report has not been released the draft July 2018 indicates that these waters remain impaired.

Impaired waters within the Village:

- Flint Creek Main Stem IL_DTZS_01
- Lake Louise IL_VTZJ

The MS4 is located in and participates in the Flint Creek / Spring Creek Watershed Group and supports Lake County Health Department (LCHD) efforts. The QLP section of the report describes the status of Lake County waters using information gathered by these workgroups, the LCHD and IEPA.

The LCHD Lakes Management Unit has been collecting water quality data on Lake County lakes since the late 1960s. Since 2000, 176 different lakes each year have been studied and data collected on temperature, dissolved oxygen, phosphorus, nitrogen, solids, pH, alkalinity, chloride, conductivity, water clarity, the plant community and shoreline characteristics. Lake summary reports can be found (URL: https://www.lakecountyil.gov/2400/Lake-Reports). The IEPA approved the final Upper Fox River/Flint Creek Watershed TMDL Report detailing requirements for this watershed (URL: https://www2.illinois.gov/epa/topics/water-quality/watershed-management/tmdls/Documents/Upper%20Fox%20River-Flint%20Creek%20TMDL_Approved%20Final%20Report_061920.pdf).

The SWMP adopted by the Village identifies three water quality monitoring locations within the community. In Year 18 quarterly water quality monitoring was completed at six locations within the community including:

- Upstream of Lake Louise at Baker Lake
- Upstream of Lake Louise at Makray Memorial Gold Club
- Upstream of Lake Louise at Main Street
- East Branch of Flint Creek entering the Village at Lake Zurich Road
- East Branch of Flint Creek exiting the Village at Hart Road
- Along Lake Louise's southern limits.

Increasing the number of testing locations is expected to provide more resolution into the effectiveness of the Village's BMPs and the data collection results, and an analysis, is included in this report as an appendix.

Part D. MS4 Summary of Year 19 Stormwater Activities

The table below indicates the stormwater management activities that the MS4 plans to undertake during Year 19. Specific measurable goals are identified in the Village's SWMP. A new Notice of Intent was submitted to the IEPA in February 2021 indicating these changes.

Note: "X" indicates BMPs that will be implemented during Year 19
✓ indicates BMPs that were changed during Year 19

Year 19 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
X	A.6 Other Public Education
B. Public Participation/Involvement	
	B.1 Public Panel
	B.2 Educational Volunteer
	B.3 Stakeholder Meeting
X	B.4 Public Hearing
	B.5 Volunteer Monitoring
X	B.6 Program Involvement
X	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
X	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
X	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 19 MS4	
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
X	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
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

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 18 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 18.
- **Part E3** summarizes the information and data collected by the QLP during Year 18.
- **Part E4** describes the stormwater management activities that the QLP plans to undertake during Year 19.
- **Part E5** lists the construction projects conducted by the QLP during Year 18.

Part E1. QLP Changes to Best Management Practices, Year 18

Note: "X" indicates BMPs that were implemented as planned
✓ indicates BMPs that were changed during Year 18

Year 18 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 18 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 18

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

The Lake County Stormwater Management Commission (SMC) serves as a Qualifying Local Program (QLP) for MS4s in Lake County. In accordance with IEPA's NDPES 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 18 are described below.

A. Public Education and Outreach

A.1 Distributed Paper Material

Measurable Goal(s):

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

Year 18 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.

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 18 QLP activities:

- SMC continues to make available "The Big Picture: Water Quality, Regulations & NPDES" presentation to Lake County MS4s, (URL hyperlink).
- Provided NPDES related information via Facebook.
- SMC held a Virtual Meeting "Illinois DCEO Capital Projects Roundtable" on 2/19/2021.
- SMC held a presentation via Storm Water Solutions (SWS) Video Series #21: Lake County Wetland Restoration and Preservation Plan on 1/18/2021.
- SMC presented on the QLP MS4 NOI to the Des Plaines River Watershed Workgroup
- Monitoring/Water Quality Improvements Committee on 9/13/2020.

A.3 Public Service Announcement

Measurable Goal(s):

- Include public service announcement highlighting community accomplishments related to IEPA's NPDES Stormwater Program in "Watershed E-News".
- Post watershed identification signage with LCDOT on Roads maintained by the Lake County Dept. of Transportation.

Year 18 QLP activities:

- SMC includes announcements highlighting community accomplishments related to IEPA's NPDES Stormwater Program on its website, in its newsletter, and through other media outlets (URL hyperlink).
- Watershed identification signage is located 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 18 QLP activities:

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

- SMC sponsored (1) Designated Erosion Control Inspector (DECI) Workshop held on 2/23/2021.
- SMC co-sponsored a river cleanup for Chicago River Day on 5/9/2020 throughout the watershed.

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 18 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 18 QLP activities:

- As new information and resource materials become available, they are posted to the SMC website and/or distributed directly to Lake County MS4s, (URL hyperlink).
- SMC continues 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, (URL hyperlink).
- SMC maintains an ArcGIS geospatial web tool for Lake County watersheds where inventoried, allowing the public to see an Inventory of Ravine, Stream and Detention Basin Information, (URL hyperlink).
- SMC maintains an ArcGIS geospatial web tool for Lake County Des Plaines River Watershed Water Quality Improvement Project recommendations, allowing the public to see, (URL hyperlink).
- SMC maintains reference documents for stormwater best practices, BMPs and green infrastructure practices on its website, (URL hyperlink).
- SMC continues 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, (URL hyperlink); Spanish version (URL hyperlink).
- SMC continue to maintain website outreach. In YR18 SMC had the following visitors:
    - Stormwater Management Commission | Lake County, IL- 8,933 visitors
    - Watersheds | Lake County, IL- 1,668 visitors
    - Watershed Development Ordinance | Lake County, IL- 2,798 visitors
    - Stormwater Best Practices | Lake County, IL- 699 visitors

- National Pollution Discharge Elimination System (NPDES) Phase II | Lake County, IL- 161 visitors

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 18 QLP activities:

- Notice of all public meetings continues to be provided on the SMC website and though direct mailings and e-mailings to distribution lists.
- SMC tracked the number of Stormwater Management Committee Board (SMC) meetings, Technical Advisory Committee (TAC) meetings, Municipal Advisory Committee (MAC), and Watershed Management Board (WMB) meetings conducted during Year 18.
- Per records, there were (12) SMC meetings, (6) TAC meetings, (1) MAC meetings, and (1) WMB meeting conducted.
- 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 18 QLP activities:

- Notice of all stakeholder meetings continues to be provided on the SMC website and through direct mailings and e-mailings to stakeholder lists.
- SMC tracked the number of stakeholder meetings conducted for the various watershed planning committees during the reporting period. The list below summarizes the watershed planning committee meetings that were conducted during Year 18:
  - Des Plaines River Watershed Workgroup (9) meetings (excluding executive board meetings)
  - North Branch Chicago River Watershed Workgroup (3) General Membership meetings – Aug 2020, Nov 2020 and Feb. 2021 (excluding executive board meetings and Monitoring Committee meetings)
  - Des Plaines River Planning Committee had (0) meetings during reporting year. Meetings cancelled due to in person meeting restrictions.
- SMC continues to establish and/or assist watershed planning committees for each new watershed planning effort.

B.6 Program Coordination

Measurable Goal(s):

- Track number of MAC meetings conducted during Year 18.
- Prepare annual report on Qualifying Local Program activities at end of Year 18.

Year 18 QLP activities:

- SMC tracked the number of Municipal Advisory Committee (MAC) meetings: According to records, there were (1) MAC meetings conducted during this reporting period (12/09/20). During the reporting year additional meetings were cancelled due to in person meeting restrictions.
- QLP prepared an annual report template including stormwater management activities that SMC performed as a QLP are described in this Annual Facility Inspection Report template. This template is provided to Lake County MS4s.

- QLP prepared an NOI template including QLP activities related to each of the six minimum control measures (MCMs) provided to Lake County MS4s.
- The stormwater management activities that SMC plans to perform as a QLP during Year 19 are described in Part E4 of the Annual Report template.

C. Illicit Discharge Detection and Elimination

C.2 Regulatory Control Program

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 18 QLP activities:

- SMC continues to enforce the countywide WDO.
- Lake County continues to provide the Lake County Illicit Discharge Detection and Elimination (IDDE) Manual on the SMC website, (URL hyperlink).

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 18 QLP activities:

- SMC sponsored or co-sponsored many workshops and events on stormwater-related topics. Such workshops and events are described above.
- SMC continues 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, (URL hyperlink); Spanish version (URL hyperlink).

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 18 QLP activities:

- SMC continues to enforce the countywide WDO.
- SMC continues to administer the Designated Erosion Control Inspector (DECI) program as outlined by the WDO, (URL hyperlink).
    - Total DECIs who have passed the exam (to date): 793.
    - DECIs who have passed the exam between 03/01/2020 – 03/1/2021: 35.
    - Total listed DECIs (to date): 201 (DECI completed certification process).
    - DECIs have a recertification process every (3) years. Current cycle 2020-2023.

D.2 Erosion and Sediment Control BMPs

Measurable Goal(s):

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

Year 18 QLP activities:

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

- SMC staff distributed 59 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 18 QLP activities:

- SMC continues to enforce the countywide WDO.

D.4 Site Plan Review Procedures

Measurable Goal(s):

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

Year 18 QLP activities:

- SMC continues to track the number of enforcement officers (EOs) who have passed the EO exam and have become EOs. Per records, as of the end of Year 18, there are 93 EOs certified in Lake County.
- The list of EOs representing Certified Communities is continually updated and is maintained on the SMC website, (URL hyperlink).
- In accordance with the amended countywide WDO, the certification process is every 5 years, (URL hyperlink). The community re-certification process, which includes a performance review of all 53 certified and non-certified communities for permitted development compliance.
- The SMC website includes guidance information to supplement the TRM related to WDO interpretation as well as ordinance administration and enforcement.

D.5 Public Information Handling Procedures

Measurable Goal(s):

- Track number of complaints received and processed related to soil erosion and sediment control (SE/SC).

Year 18 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 18 QLP activities:

- SMC continues to track the number of site inspections conducted by SMC staff.
- According to records, 959 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 18 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 18 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 18 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 18 QLP activities:

- SMC continues to enforce the countywide WDO.

E.6 Post-Construction Inspections

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 18 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 18 QLP activities:

- The annual WMB meeting was held on Dec. 2, 2020.
- At the annual WMB meeting 11 Projects were selected to receive $196,400 of funding through the SMC grant program. These projects including planning and in the ground project efforts that support flood reduction, water quality improvement, and stormwater retrofit projects.
    - 10 WMB project grants awarded.
    - 1 Watershed Management Assistance (WMAG) project grant awarded.
- SMC staff attended the Stormwaterone.com "Addressing Stormwater Compliance on Construction Projects using "The 3 C's of Stormwater" on 5/21/2020.
- SMC staff attended the Stormwater Solutions "MS4 Challenges Posed by Evolving Construction Site Storm Water Requirements" on 6/04/2020.
- SMC staff attended the SMC "2021 DECI Virtual Workshop" on 2/23/2021.

F. Pollution Prevention/Good Housekeeping

F.1 Employee Training Program

Measurable Goal(s):

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

- Make available the Excal Visual "IDDE - A Grate Concern" training video and testing.

Year 18 QLP activities:

- SMC continues to provide information on training opportunities and training resources to Lake County MS4s.
- SMC continues to make available the Excal Visual Storm Watch Municipal Stormwater Pollution Prevention software to Lake County MS4s.
- SMC continues to make available the Excal Visual "IDDE - A Grate Concern" software to Lake County MS4s.

F.5 Flood Management/Assess Guidelines

Measurable Goal(s):

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

Year 18 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 Deicing

Measurable Goal(s):

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

Year 18 QLP activities:

- De-icing workshops:
    - During the reporting year workshops were cancelled due to in person meeting restrictions.
- De-icing certification process to promote trained vendors is offered
    - No new certification recorded during the reporting year due to in person meeting restrictions.
    - In 2019, 117 preferred providers have been identified based on certification. Vendors stay on the list for 5 years.
- Deicing Summit was cancelled due to in person meeting restrictions.
- SMC continues to make available chloride reduction documents
    - Too Much Salt in Our Winter Maintenance Recipe - Tips for Managing Snow and Ice at Home, (URL hyperlink).
    - Lake County Winter Parking Lot and Sidewalk Maintenance Manual, (URL hyperlink).
    - Less Salt Equals Less Money, Clean Water, Safe Conditions - Tips for Effective Road Salting, (URL hyperlink).

Part E3. QLP Information and Data Collection Results, Year 18

The QLP did not collect any monitoring data on behalf of Lake County's MS4s during Year 18. However, SMC has reviewed information presented by the Illinois EPA (IEPA) in the 2016 Illinois Integrated Water Quality Report and 303(d) List and has developed the brief "State of Lake County's Waters" report provided below.

State of Lake County's Waters
March 2021

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

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

Streams

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

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

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

Table E3.1 2014 303(d) streams removed from 2016 303(d) list

Assessment ID	Name	Miles		Assessment ID	Name	Miles
IL_G-08	Des Plaines River	0.98		IL_QE-01	Dead Dog Creek	4.02
IL_GV-01	Bull Creek	2.33		IL_DTZS-01	Flint Creek	9.66
IL_RGZB	Hastings Lake	0.34		IL_RTJ	Long Lake	2.85
IL_DT-35	Fox River	5.03		IL_RHK	Eleanor Lake	0.36

IL_HCCB-05	West Fork North Branch	5.73		IL_GWA	North Mill Creek	6.62
IL_GST	Buffalo Creek	8.77		IL_RGZE	Slough Lake	0.42
IL_RGZA	Crooked Lake	1.00				

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

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

Lakes

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

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

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

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

Lake Michigan

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

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

exceedances do not necessarily indicate that there are offensive conditions in Lake Michigan due to excessive algal or aquatic plant growth.

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

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

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

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

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

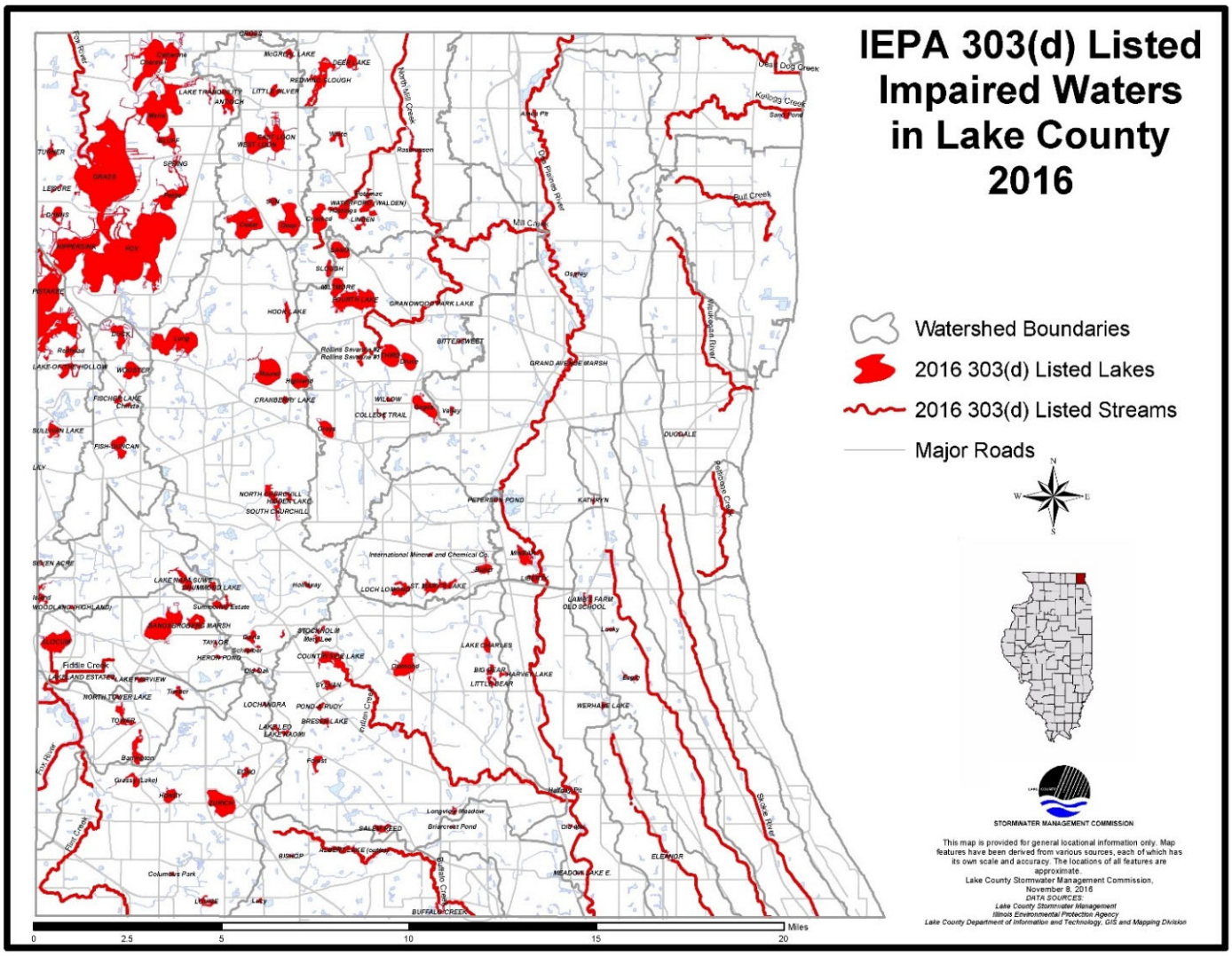
IEPA 303(d) Listed Impaired Waters in Lake County 2016
Watershed Boundaries
2016 303(d) Listed Lakes
2016 303(d) Listed Streams
Major Roads
N
W
E
S
STORMWATER MANAGEMENT COMMISSION
This map is provided for general locational information only. Map features have been derived from various sources, each of which has its own scale and accuracy. The locations of all features are approximate.
Lake County Stormwater Management Commission, November 8, 2016
DATA SOURCES:
Lake County Stormwater Management
Illinois Environmental Protection Agency
Lake County Department of Information and Technology, GIS and Mapping Division
Miles
0
2.5
5
10
15
20

Figure E3.1

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. During the current YR18 reporting period, DRWW's monitoring program includes: Water/Sediment sampling and analysis at 73 Monitoring Locations for 2019; Bioassessment monitoring at 31 monitoring locations; Continuous water quality monitoring with data sondes and Chlorophyll a sampling and analysis at 14 Monitoring Locations; and Flow Monitoring data collection at 22 sites. An annual water chemistry monitoring report was submitted to Illinois EPA on behalf of DRWW members in March 2020, which covers the NPDES II monitoring requirements for MS4 communities that are DRWW members. The Des Plaines River Watershed Monitoring Strategy was also updated and submitted to Illinois EPA in March 2020. 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 and sampled 14 sites for fish, habitat, macroinvertebrate, and sediment chemistry. Data sondes were deployed at 6 sites in the Middle and West Forks for collection of dissolved oxygen (D.O), pH, temperature, and specific conductance. The NBWW will continue to support the North Branch Watershed Planning Committee and the North Branch Watershed Consortium through regular discussion at general meetings. Current NBWW member list is located at (URL: www.nbwwil.org).

The LCHD Lakes Management Unit 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 hyperlink). 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 19 Stormwater Activities

The table below indicates the stormwater management activities that the QLP plans to undertake during Year 19. Additional information about the BMPs and measurable goals that the QLP will implement during Year 19 is provided in the section following the table.

Note: "X" indicates BMPs that will be implemented during Year 19

Year 19 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 19 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 19, 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 2016-2021 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 announcement related to IEPA's NPDES Stormwater Program or Stormwater BMPs are included in SMC's watershed E-News. SMC also utilizes social media and coordinates with the Lake County Department of Transportation (LCDOT) to post watershed identification signage in watersheds where watershed planning activities have occurred or are occurring.

Measurable Goal(s):

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

A.4 Outreach Events

SMC sponsors and co-sponsors educational and technical training workshops on a variety of stormwater management-related topics. Each year, SMC will sponsor or co-sponsor at least one

workshop on a topic related to IEPA's NPDES Stormwater Program, such as soil erosion and sediment control, illicit discharge detection and elimination, or stormwater best management practices (BMPs) that can be used to protect and improve water quality.

Measurable Goal(s):

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

A.5 Classroom Education Material

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

Measurable Goal(s):

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

A.6 Other Public Education

SMC maintains a website that contains a variety of materials and resources related to stormwater management. The website 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 IEPA's NPDES Stormwater Program with resources such as model ordinances, case studies, brochures, and links including information related to climate change.
- Make "The Big Picture: Water Quality, Regulations & NPDES" presentation available to Lake County MS4s.
- 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, (URL hyperlink); Spanish version (URL hyperlink).

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, (URL hyperlink).
- Lake County Watershed Based Plans, (URL hyperlink).

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.
- Contribute green infrastructure support as a certified professional in the National Green Infrastructure Certification Program (NGICP).

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 18

Project Name	Project Size (acres)	Construction Start Date	Construction End Date
Strawberry Condos Drainage Improvement Project	0.18	10/5/2020	12/18/2020
Beach Park Bull Creek Ravine and Streambank Stabilization Project	0.54	11/10/2020	7/25/2021
2020 Demolition and Site Restoration Project – 991 Kilbourne Rd, Gurnee	0.35	11/10/2020	7/25/2021
2020 Demolition and Site Restoration Project – 1046 Kilbourne Rd, Gurnee	0.43	12/1/2020	3/15/2021
2020 Demolition and Site Restoration Project – 1059 Briargate Dr, Highland Park	0.42	12/1/2020	3/15/2021
2020 Demolition and Site Restoration Project – 1065 Briargate Dr, Highland Park	0.42	12/1/2020	3/15/2021
2020 Demolition and Site Restoration Project – 1318 Golf Ave, Highland Park	0.17	12/1/2020	3/15/2021
2020 Demolition and Site Restoration Project – 1217 Taylor Ave, Highland Park	0.20	12/1/2020	3/15/2021

Part F. MS4 Construction Projects Conducted During Year 18

Project Name	Project Size (acres)	Construction Start Date	Construction End Date
Lageshulte Street Safe Routes to School Sidewalk Improvements	~2	07/08/2019	08/30/19
Annual Road Patching Program	.54	07/15/2019	09/27/2019

Site:	Baker's Lake					
Date	Parameter with Acceptable Limit					
	Ammonia	pH	BOD	Total Phosphorus	Fecal	TSS
	17 mg/L	*6.5-9.0*	*>3 mg/L*	*<.05 mg/L**	*< 200 cfu/100ml*	*<11.3 mg/L***
2012	0.161	8.5	8	0.11	N/A	18
2013	0.04	9.8	8	0.18	N/A	77
2014	0.04	8.9	7	0.05	N/A	47
2016	0.03	10.2	14	0.67	N/A	170
March 2017	0.509	8.1	9	0.01	N/A	37
June 2017	0.022	9.1	11	0.77	N/A	276
Sept. 2017	0.27	7.8	12	0.89	N/A	258
Dec. 2017	0.037	9	8	0.3	N/A	53
March 2018	0.167	8.3	10	0.18	N/A	38
June 2018	0.115	9.1	11	0.55	230	148
Sept. 2018	1.11	9.4	9	0.38	114	152
Dec. 2018	0.0701	8.8	4	0.29	14	11
March 2019	0.0542	8.8	9	0.22	12	21
June 2019	2.82	8.4	11	0.74	61	76
Sept. 2019	0.02	10.4	9	0.58	26	113
Dec. 2019	0.193	8.5	6	0.24	2	21
March 2020	0.242	8.1	14	0.49	58	66
June 2020	0.243	9.6	9	0.77	52	147
Sept. 2020	0.177	8.1	13	0.76	204	164
Dec. 2020	0.729	9.5	17	0.42	2	39
March 2021	2.21	8.1	8	0.38	0	24

*TMDL June 2020

** LRS June 2020

Site:	Lake Zurich Road					
Date	Parameter with Acceptable Limit					
	Ammonia	pH	BOD	Total Phosphorus	Fecal	TSS
	17 mg/L	*6.5-9.0*	*>3 mg/L*	*<.05 mg/L**	*< 200 cfu/100ml*	*<11.3 mg/L***
2012	0.01	8	1	0.47	N/A	5
2013	0.11	7.7	3	0.37	N/A	0
2014	0.12	7.9	5	0.15	N/A	2
2016	0.17	8	7	0.56	N/A	12
March 2017	0.051	7.7	3	0.02	N/A	19
June 2017	0.601	8.8	7	0.49	N/A	68
Sept. 2017	0.64	7.7	11	0.64	N/A	5
Dec. 2017	0.12	7.9	5	0.22	N/A	30
March 2018	0.0825	7.7	5	0.13	N/A	14
June 2018	0.0767	7.9	6	0.28	120	27
Sept. 2018	1.13	7.3	4	0.18	96	16
Dec. 2018	0.121	7.8	3	0.15	126	8
March 2019	0.175	7.9	6	0.14	10	13
June 2019	0.187	7.9	6	0.32	101	30
Sept. 2019	0.07	7.6	5	0.22	108	10
Dec. 2019	0.0988	7.8	3	0.15	14	16
March 2020	0.0275	7.8	4	0.18	4	12
June 2020	0.231	7.8	4	0.37	92	23
Sept. 2020	0.09	7.9	6	0.34	140	27
Dec. 2020	0.324	7.7	7	0.32	26	41
March 2021	0.456	8	4	0.28	36	10

*TMDL June 2020

** LRS June 2020

Site:	Hart Road					
Date	Parameter with Acceptable Limit					
	Ammonia	pH	BOD	Total Phosphorus	Fecal	TSS
	17 mg/L	*6.5-9.0**	*>3 mg/L*	*<.05 mg/L**	*< 200 cfu/100ml*	*<11.3 mg/L***
2012	0.01	7.7	5	0.38	N/A	9
2013	0.04	8	3	4.16	N/A	1
2014	0.08	7.94	3	1.62	N/A	0
2016	0.07	8	6	1.68	N/A	5
March 2017	0.108	7.8	3	0.06	N/A	61
June 2017	0.176	7.9	5	0.59	N/A	33
Sept. 2017	0.06	8	3	1.67	N/A	3
Dec. 2017	0.163	7.8	4	0.58	N/A	2
March 2018	0.0722	7.8	4	0.17	N/A	4
June 2018	0.124	7.8	4	0.25	110	17
Sept. 2018	1.14	7.7	3	0.23	108	10
Dec. 2018	0.117	8	3	0.22	264	12
March 2019	0.418	8.1	7	0.39	86	24
June 2019	0.118	7.9	6	0.46	80	44
Sept. 2019	0.06	8	4	0.41	124	12
Dec. 2019	0.0659	7.8	3	0.24	14	5
March 2020	0.0299	8.1	4	0.2	106	16
June 2020	0.159	8	3	0.42	164	13
Sept. 2020	0.08	7.9	7	0.58	32	39
Dec. 2020	0.123	8.1	3	0.44	148	10
March 2021	0.637	8.2	5	0.43	328	27

*TMDL June 2020

** LRS June 2020

Site:	Main Street	
	Parameter with Acceptable Limit	
Date	Total Phosphorus	TSS
	*<.05 mg/L**	*<11.3 mg/L***
Dec. 2018	0.22	N/A
March 2019	0.3	N/A
June 2019	0.71	N/A
Sept. 2019	0.49	N/A
Dec. 2019	0.23	N/A
March 2020	0.26	25
June 2020	0.62	126
Sept. 2020	0.49	31
Dec. 2020	0.27	20
March 2021	0.37	11

*TMDL June 2020

** LRS June 2020

Site:	Makray Golf Club	
	Parameter with Acceptable Limit	
Date	Total Phosphorus	TSS
	*<.05 mg/L**	*<11.3 mg/L***
Dec. 2018	0.24	N/A
March 2019	0.24	N/A
June 2019	1.1	N/A
Sept. 2019	0.53	N/A
Dec. 2019	0.23	N/A
March 2020	0.33	43
June 2020	0.55	133
Sept. 2020	0.5	83
Dec. 2020	0.28	34
March 2021	0.28	17

*TMDL June 2020

** LRS June 2020

Site:	Lake Louise (1370 Lake Shore Drive)	
	Parameter with Acceptable Limit	
Date	Total Phosphorus	TSS
	*<.05 mg/L**	*<11.3 mg/L***
Dec. 2018	N/A	N/A
March 2019	N/A	N/A
June 2019	N/A	N/A
Sept. 2019	N/A	N/A
Dec. 2019	N/A	N/A
March 2020	0.31	25
June 2020	0.61	123
Sept. 2020	0.4	28
Dec. 2020	0.3	18
March 2021	0.22	8

*TMDL June 2020

** LRS June 2020