



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, 2019 To March, 2020

Permit No. ILR40 0374

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

Name: Village of Libertyville Mailing Address 1: 118 W. Cook Avenue
Mailing Address 2: County: Lake
City: Libertyville State: IL Zip: 60048 Telephone: (847) 382-2430
Contact Person: Paul Kendzior Email Address: pkendzior@libertyville.com
(Person responsible for Annual Report)

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

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 | <input type="checkbox"/> | 4. Construction Site Runoff Control | <input type="checkbox"/> |
| 2. Public Participation/Involvement | <input type="checkbox"/> | 5. Post-Construction Runoff Control | <input type="checkbox"/> |
| 3. Illicit Discharge Detection & Elimination | <input type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input type="checkbox"/> |

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Owner Signature:

Paul Kendzior, PE

Printed Name:

3/24/20

Date:

Director of Public Works

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

Village of Libertyville
Permit No. ILR40-0374
Permit Year 17: March 1, 2019 to March 1, 2020

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Part A. Village Changes to Best Management Practices, Year 17

Information regarding the status of all of the Best Management Practices (BMPs) and measurable goals described in the Village’s SMPP is provided in the following table.

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

✓ indicates BMPs that were changed during Year 17

Year 17	
Village	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
	A.3 Public Service Announcement
X	A.4 Community Event
	A.5 Classroom Education Material
X	A.6 Other Public Education
B. Public Participation/Involvement	
	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
X	B.4 Public Hearing
X	B.5 Volunteer Monitoring
X	B.6 Program Coordination
X	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
X	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
X	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 17	
Village	
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
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

Additional information about the changes that were made to the BMPs described in the Village's SMPP during Year 17 is provided below. The stormwater activities that the Village performed during Year 17, including the Village's BMPs and measurable goals, are described in detail in the Village's SMPP, which can be viewed at www.libertyville.com/documentcenter/view/19646

B.6 Program Coordination

Measurable Goal(s):

- Continue to attend and participate in MAC meetings.

Year 17 Village Activities:

- The Village of Libertyville staff/consultant was able to attend and participate in all of the MAC meetings facilitated by SMC during Year 17. Meeting materials were obtained and reviewed for all MAC meetings. During Year 18, the Village anticipates that it will continue its participation in all scheduled MAC meetings.

E.2 Regulatory Control Program

Measurable Goal(s):

- Enforce the minimum requirements set in the WDO.

Year 17 Village Activities:

- The Village has revised its local amendment to the Lake County Watershed Development Ordinance (WDO): Appendix P - Stormwater Management Regulations. These regulations establish requirements and guidance for the provision of stormwater management for smaller developments that would otherwise fall beneath the detention thresholds of the WDO. The Appendix P regulations are applied to developments that result in a net increase of impervious surface area of 400 square feet or greater up to 0.5-acre as defined in the WDO (www.libertyville.com/919/Appendix-P).

Part B. Status of Compliance with Permit Conditions, Year 17

Stormwater Management Activities, Year 17

Please note that Illinois Environmental Protection Agency (IEPA) issued a new version of its General NPDES Permit No. ILR40 (Permit), effective on March 1, 2016. On behalf of all MS4s within the county, the Stormwater Management Commission (SMC) performs activities related to each of the six minimum control measures as a Qualifying Local Program (QLP) 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. The SMPP can be viewed at the following link: www.libertyville.com/documentcenter/view/19646

The stormwater management activities that the Village performed during Year 17, including the Village's BMPs and measurable goals, are described in detail in the SMPP and summarized below. A copy of the annual tracking form is included at the end of Part B of this report.

A. Public Education and Outreach

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

Year 17 Village Activities:

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

A.1 Distributed Paper Material

Brief Description of BMP:

The Village publishes a quarterly newsletter that regularly includes articles pertaining to and advertisements of various stormwater maintenance activities and improvements throughout the Village. The newsletters for this report period are attached.

A.4 Community Event

Brief Description of BMP:

The Village hosted an open house (6/27/19) at the Village Hall to discuss and inform residents of the upcoming Rockland Rock Reconstruction project.

A.6 Other Public Education

Brief Description of BMP:

The Village dedicates a portion of its website to its stormwater management program including links to the Des Plaines River Watershed Workgroup (DRWW) and North Shore Water Reclamation District (NSWRD) websites. The website also includes links to the SMPP, NOI, and Annual Reports (www.libertyville.com/838/Stormwater-Pollution-Prevention-Informat).

B. Public Participation/Involvement

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

Year 17 Village Activities:

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

B.3 Stakeholder Meeting

Brief Description of BMP:

The Village hosted an open house (6/27/19) at the Village Hall to discuss and inform residents of the upcoming Rockland Rock Reconstruction project.

B.4 Public Hearing

Brief Description of BMP:

The Village hosted an open house (6/27/19) at the Village Hall to discuss and inform residents of the upcoming Rockland Rock Reconstruction project.

B.5 Volunteer Monitoring

Brief Description of BMP:

The Village supports the efforts of private entities to mark inlets to assist in educating the public about stormwater runoff pollution.

B.6 Program Coordination

Brief Description of BMP:

The Village attends and participates in quarterly SMC Municipal Advisory Committee (MAC) meetings.

B.7 Other Public Involvement

Brief Description of BMP:

The Village maintains, operates, and publicizes the “Illicit Discharge/Illegal Dumping” hotline where parties can contact the Village with environmental concerns. The village also supports Adopt-A-Highway, with the objective of reducing potential illicit discharges.

C. Illicit Discharge Detection and Elimination

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

Year 17 Village Activities:

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

- The Village performed dry weather outfall inspections throughout the Village as part of the completion of the Master Stormwater Management Plan for the Village. Additional outfall inspections of the high priority outfalls east of Milwaukee Ave discharging to the Des Plaines River were completed with the Rockland Road stormwater management project. No illicit discharges were identified.

D. Construction Site Runoff Control

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.
- Enforce the WDO, ensuring that all applicable developments are regulated pursuant to the WDO.

Year 17 Village Activities:

- The Village continues to implement the BMPs described in its SMPP and to track progress in implementing its stormwater management program.
- The Village continues to enforce the WDO, ensuring that all applicable developments are regulated pursuant to the WDO.

E. Post-Construction Runoff Control

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.
- Enforce the WDO, ensuring that all applicable developments regulated pursuant to the WDO.

Year 17 Village Activities:

- The Village continues to implement the BMPs described in its SMPP and to track progress in implementing its stormwater management program.
- The Village continues to enforce the WDO, ensuring that all applicable developments are regulated pursuant to the WDO.

F. Pollution Prevention/Good Housekeeping

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

Year 17 Village Activities:

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

Stormwater Management Program Assessment, Year 17

An overall assessment of the Village's stormwater management program and the appropriateness of its BMPs is provided below.

The Village of Libertyville program evaluation is performed on an annual basis. The primary mechanism for evaluating the program and ensuring that staff has adequate knowledge is supervision by responsible department managers. Management support tasks include observing and evaluating design, construction and field personnel as they implement the requirements of the SMPP on both municipal and private projects, and operations/maintenance personnel as they conduct their assigned activities. The Village of Libertyville Program Coordinator, who serves as the lead contact for Village's NPDES No. ILR40 permit, works with Village departments to ensure compliance with IEPA permit requirements as outlined in the SMPP. This is achieved through support activities, technical guidance, field inspections, and continual evaluation of existing programmatic components.

The Village of Libertyville remains committed to maintaining its current stormwater management program and to continue to work to update and enhance its program, as needed, to comply with the requirements of the ILR40 permit.

On-going SMPP Tasks

BMP	Task	Date Compl'd	SMPP Section
All	Support QLP efforts		3.4.A.1
A.1, A.6	Maintain take-a-way racks and provide other appropriate outreach efforts. Provide safe vehicle maintenance, car washing, healthy lawn care, green infrastructure, pool		3.2.A, 3.2.G-K
A.1	Include SMPP related article in newsletter		3.2.A
A.4	Support and publicize SWALCO collections		3.2.E
B.3	Participate in QLP or other sponsored watershed planning events (stakeholder groups)		3.3.A
A.6	Maintain link to SMC, link to SWALCO, IEPA, safe vehicle maintenance & car washing information, healthy lawn care, green infrastructure, pool dewatering.		3.2.B, 3.2.G-K
B.6, C.6	Participates in MAC meetings and events hosted by the QLP		3.3.C
B.7	Publicize contact information to encourage submission of complaints, suggestions,		3.3.B.2
C.2	Enforce WDO		3.4.A.1
C.2	Enforce IDDE Ordinance		3.4.A.2
C.2	Enforce Subdivision & Public Utility Ordinance		3.4.A.3
D.1 D.6, E.2 E.5	Administer & enforce (or assist SMC in) WDO provisions (plan review, permitting, inspections and enforcement)		3.5.B-1, 3.6.A-E
D.5, E.3	Keep log, track number, respond to se/so and post construction storm water concerns		3.5.G, 3.6.B
E.4	Ensure development plans address municipal established RVRH goal and incorporate		3.6.C
E.6, E.7	encourage property owners to implement watershed plan recommendations (streambank, shoreline, detention basin etc)		3.6.E
E.7, F.4	Street sweeping		3.7.A.1
E.7, F.2	Inspect swales and overland flow paths for erosion and sediment accumulation, report		3.7.A.2
E.7, F.4	Collect yard waste/leaves		3.7.A.3
F.4	Remove litter/debris from Village property, roadway right-of-ways, facilities, park & rec		3.7.A.3
F.4	Collection and disposal of "road kill" and carcasses		3.7.A.7
F.3	Follow Snow Removal and Ice Control BMP in SMPP		3.7.A.4
F.4	Vehicle Maintenance collection and disposal (waste oil, antifreeze, batteries, tires)		3.7.A.6
F.4	Follow Waste Control BMP in SMPP		3.7.A.8
F.3	Identify and maintain green infrastructure		3.7.A.10
F.4	Prevent/Minimize illicit discharges from Special Events		3.7.A.11

Part C. Information and Data Collection Results, Year 17

Annual Monitoring and Data Collection, Year 17

Information and data that the Village 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.

As described in the revised SMPP there are extensive monitoring efforts already underway across the County. The Village is located in and participates in the Des Plaines River Watershed Workgroup (DRWW). The QLP section of the report describes the status of Lake County waters using information gathered by these workgroups, the Lake County Health Department (LCHD) and IEPA. 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. During the current YR17 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. The Village of Libertyville is currently a DRWW member for the reporting year (www.drww.org/members).
- 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 has been collected on temperature, dissolved oxygen, phosphorous, nitrogen, solids, pH, alkalinity, chloride, conductivity, water clarity, plant community, and shoreline characteristics. Lake summary reports can be found at the following website: www.lakecountyil.gov/2400/lake-reports

Part D. Summary of Year 18 Stormwater Activities

The table below indicates the stormwater management activities that the Village plans to undertake during Year 18. Additional information about the BMPs and measurable goals that the Village will perform during Year 18 is provided in the section following the table.

Note: “X” indicates BMPs that will be implemented during Year 18

✓ indicates BMPs that will be changed during Year 18

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

Year 18	
Village	
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
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
X	F.6 Other Municipal Operations Controls

Stormwater Management Activities, Year 18

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 Village measurable goals are to “support QLP efforts.”

During Year 18, the Village plans to continue to perform a variety of stormwater management activities, as well as support and supplement QLP efforts, as described in detail in the Village’s SMPP and in brief below. The Village’s SMPP can be viewed at www.libertyville.com/documentcenter/view/19646

A. Public Education and Outreach

In addition to the extensive QLP efforts, the Village utilizes a variety of methods to educate and provide outreach to the public about the importance of managing pollutants that potentially could enter the stormwater system. The Village’s Public Education and Outreach program includes: the distribution of educational material via take-away racks, municipal newsletters, website, at outreach events and by supporting efforts of the Solid Waste Agency of Lake County (SWALCO).

Measurable Goal(s):

- Support QLP efforts.
- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

B. Public Participation/Involvement

In addition to the extensive QLP efforts, the Village utilizes a variety of methods to allow input from citizens during the development and implementation of the SMPP. The Village’s Public Participation/Involvement program includes: maintaining a process for receiving and processing citizen input/complaints; attending and publicizing stakeholder meetings and the Lake County Municipal Advisory Committee, identification of environmental justice areas, and presenting program information at a public meeting at least once annually.

Measurable Goal(s):

- Support QLP efforts.
- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

C. Illicit Discharge Detection and Elimination

In addition to the extensive QLP efforts, the Village will conduct activities toward the identification and removal of direct connections of pollutants into the storm water management systems (including wetlands and receiving waters). The program includes the following primary components.

- An outfall map showing the locations of outfalls and the names and locations of all waters that receive discharges from those outfalls;
- An ordinance that prohibits all non-storm water discharges into the storm sewer system and provides the authority for appropriate enforcement procedures and actions;
- A plan to detect and address all non-stormwater discharges, into the storm sewer system;
- Periodic inspection of outfalls for detection of non-stormwater discharges and illegal dumping (5-yr rescreening schedule).
- Annual inspection of all High Priority Outfalls.

Measurable Goal(s):

- Support QLP Efforts.
- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

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 establishes countywide standards for runoff maintenance, detention sites, soil erosion and sediment control, inspections, water quality, wetlands and floodplains. The WDO, which is administered and enforced within the community by SMC and the Village, establishes standards for construction site runoff control.

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.
- Enforce the WDO, 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. BMP standards are incorporated into the WDO to implement stormwater management strategies that minimize increases in stormwater runoff rates, volumes, and pollutant loads from development sites. The SMPP also includes support of adopted Watershed Plan recommendations and inspection procedures for pre-WDO developments, streambanks and shorelines, streambeds, and detention/retention ponds.

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.
- Enforce the WDO, ensuring that all applicable developments are in compliance with the WDO.

F. Pollution Prevention/Good Housekeeping

In addition to the QLP efforts to provide training materials and opportunities, the Village is committed to implementing the Pollution Prevention/Good Housekeeping component of its SMPP. The Village is responsible for the care and upkeep of the general facilities, municipal roads, its general facilities and associated maintenance yards. The Village's Pollution Prevention/Good Housekeeping program includes: the evaluation and improvement of municipal policies and procedures to reduce the discharge of pollutants from municipal activities and operations; and, a training program for municipal employees.

Measurable Goal(s):

- Support QLP efforts.
- Implement BMPs and track progress of BMP implementation, as described in the SMPP

Part E. Notice of Qualifying Local Program

The Lake County Stormwater Management Commission (SMC) serves as a Qualifying Local Program (QLP) for MS4s in Lake County. In accordance with the IEPA's General Permit No. IL40, 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 17 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 17.
- **Part E3** summarizes the information and data collected by the QLP during Year 17.
- **Part E4** describes the stormwater management activities that the QLP plans to undertake during Year 18.
- **Part E5** lists the construction projects conducted by the QLP during Year 17.

Part E1. QLP Changes to Best Management Practices, Year 17

Note: “X” indicates BMPs that were implemented as planned
✓ indicates BMPs that were changed during Year 17

Year 17	
QLP	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
X	A.5 Classroom Education Material
X	A.6 Other Public Education
B. Public Participation/Involvement	
X	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
	B.4 Public Hearing
	B.5 Volunteer Monitoring
X	B.6 Program Coordination
	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	C.3 Detection/Elimination Prioritization Plan
	C.4 Illicit Discharge Tracing Procedures
	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
X	C.10 Other Illicit Discharge Controls

Year 17	
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 17

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 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 17 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 17 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.
- Provided NPDES related information via Facebook

A.3 Public Service Announcement

Measurable Goal(s):

- Include public service announcement highlighting community accomplishments related to IEPA's NPDES Stormwater Program in “Watershed E-News”;
- Post watershed identification signage with LCDOT;
- Upon request or download “The Big Picture: Water Quality, Regulations & NPDES” to Lake County MS4s.

Year 17 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.
- SMC continues to make available “The Big Picture: Water Quality, Regulations & NPDES” presentation to Lake County MS4s, ([URL hyperlink](#)).

A.4 Community Event

Measurable Goal(s):

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

Year 17 QLP activities:

- SMC sponsored or co-sponsored many workshops and events on stormwater-related topics, including:
 - SMC sponsored (2) Designated Erosion Control Inspector (DECI) Workshops held on 4/11/2019 and 2/26/2020.
 - SMC co-sponsored a river cleanup for Chicago River Day on 5/11/2019 throughout the watershed.
 - SMC co-sponsored Parking Lots & Sidewalks De-Icing Workshop held in Libertyville, IL on 9/30/2019.
 - SMC co-sponsored Roadway De-Icing Workshop held in Libertyville, IL on October 1 and 2, 2019.
 - SMC co-sponsored a De-Icing Summit held in Libertyville, IL on 4/17/2019.
 - SMC co-sponsored an Earth Day Event at a Lake County Public Facility on 4/23/2019 with 52 attendees

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 17 QLP activities

- Stormwater educational materials were compiled for use at several public education events, including:
 - SMC held a General Presentation about SMC Public Stormwater Program at UW Parkside on 2/22/2020.
 - SMC sponsored a Cool Learning Experience for Lake County high school students on 7/26/2019.
 - SMC published in Wetland Science & Practice on Lake County, IL wetlands- Crane, J.E., G.H. Westman, and M.E. Prusila. 2019. Using Landscape-Level Wetland Assessment to Aid in Local Management of Wetlands for Lake County, Illinois. Wetland Science & Practice, January 2019, pp. 33-43.

A.6 Other Public Education

Measurable Goal(s):

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

Year 17 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 make available "The Big Picture: Water Quality, Regulations & NPDES" presentation 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 statuses, 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 YR17 SMC had the following visitors:
 - Stormwater Management Commission | Lake County, IL- 8,386 visitors
 - Watersheds | Lake County, IL- 1,813 visitors
 - Watershed Development Ordinance | Lake County, IL- 1,542 visitors
 - Stormwater Best Practices | Lake County, IL- 169 visitors
 - National Pollution Discharge Elimination System (NPDES) Phase II | Lake County, IL- 78 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 17 QLP activities:

- Notice of all public meetings continues to be provided on the SMC website and through direct mailings and e-mailings to distribution lists.
- SMC tracked the number of Stormwater Management Committee Board (SMC) meetings, Technical Advisory Committee (TAC) meetings, Municipal Advisory Committee (MAC), and Watershed Management Board (WMB) meetings conducted during Year 17.
- Per records, there were (9) SMC meetings, (11) TAC meetings, (2) MAC meetings, and (1) WMB meeting conducted.
- According to records (8) CIRS community inquiries were received and processed by SMC staff.
- SMC held (3) Increased Rainfall Public Information Meetings based on “J. R. Angel, and M. Markus, 2019. Frequency Distributions of Heavy Precipitation in Illinois: Updated Bulletin 70, Illinois State Water Survey”: 7/16/2019 (Highland Park), 7/24/2019 (Barrington), and 8/8/2019 (Round Lake).
- SMC held a Floodproofing and Rainfall Public Information Meeting on 9/17/2019 (Gurnee).

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 17 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 17:
 - Des Plaines River Watershed Workgroup (11) meetings (excluding executive board meetings)
 - North Branch Chicago River Watershed Workgroup (7) meetings (excluding executive board meetings)
 - Des Plaines River Planning Committee (1) meeting on 10/23/2019.
- 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 17.
- Prepare annual report on Qualifying Local Program activities at end of Year 17.

Year 17 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. 4/4/19, and 12/11/19.
- 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 18 are described in Part E4 of the Annual Report template.
- SMC conducted a survey in November 2019 of Lake County's 67 Municipality and Township MS4 program permit metrics and QLP topics. The survey received (35) responses.

C. Illicit Discharge Detection and Elimination

C.2 Regulatory Control Program

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 17 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 17 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 17 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): 825.
 - DECIs who have passed the exam between 03/01/2019 – 02/29/2020: 48.
 - Total listed DECIs (to date): 282 (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 17 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 100 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 17 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 17 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 17, there are 91 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.

Year 17 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 17 QLP activities:

- SMC continues to track the number of site inspections conducted by SMC staff.
- According to records, 1074 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 17 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 17 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 17 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 17 QLP activities:

- SMC continues to enforce the countywide WDO.

E.6 Post-Construction Inspections

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 17 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 17 QLP activities:

- The annual WMB meeting was held on Dec. 4, 2019.
- At the annual WMB meeting 6 Projects were selected to receive \$162,276 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.
 - 12 WMB project grants awarded.
 - 1 Watershed Management Assistance (WMAG) project grant awarded.
- SMC staff attended the EWRI, ASCE Illinois Section “2019 Illinois MS4 Implementation Seminar” on 3/7/2019.
- SMC staff achieved certification with thin the National Green Infrastructure Certification Program (NGICP) on 3/20/2019.
- SMC staff attended the DuPage County Green Infrastructure “Green Infrastructure Seminar for MS4 Communities” on 12/4/2019.

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 17 QLP activities:

- SMC continues to provide information on training opportunities and training resources to Lake County MS4s.
- SMC sponsored or co-sponsored a number of workshops and events on stormwater-related topics. Such workshops and events are described above.

- SMC continues to make available the Excal Visual Storm Watch Municipal Stormwater Pollution Prevention software to Lake County MS4s. According to records, (2) MS4 Programs borrowed the Excal Visual software.
- SMC continues to make available the Excal Visual “IDDE - A Grate Concern” software to Lake County MS4s. According to records, (2) MS4 Programs borrowed the Excal Visual software.

F.5 Flood Management/Assess Guidelines

Measurable Goal(s):

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

Year 17 QLP activities:

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

F.6 Other Municipal Operations Controls

Winter Roadway Deicing

Measurable Goal(s):

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

Year 17 QLP activities:

- SMC co-sponsored 3 de-icing workshops:
 - Deicing Workshop for Parking Lots and Sidewalks 09/30/2019.
 - Deicing Workshop for Roads (2 days) 10/01/2019 and 10/02/2019.
 - In total 144 attendees participated in these three workshops.
 - Since 2009 the deicing workshops have had a cumulative attendance of roughly 1,514 attendees.
- A de-icing certification process to promote trained vendors is offered
 - Preferred Providers that successfully completed a Lake County Deicing Training Workshop and passed the Course Exam can be referenced on a Preferred Provider List ([URL hyperlink](#)).
 - Certification is through a third-party vendor, Fortin Consulting, Inc.
 - In 2019, 117 preferred providers have been identified based on certification.
- A Deicing Summit (target audience is winter maintenance decision makers): In total 52 attendees participated in the Summit.
- 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 17

The QLP did not collect any monitoring data on behalf of Lake County's MS4s during Year 17. 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 February 2020

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.

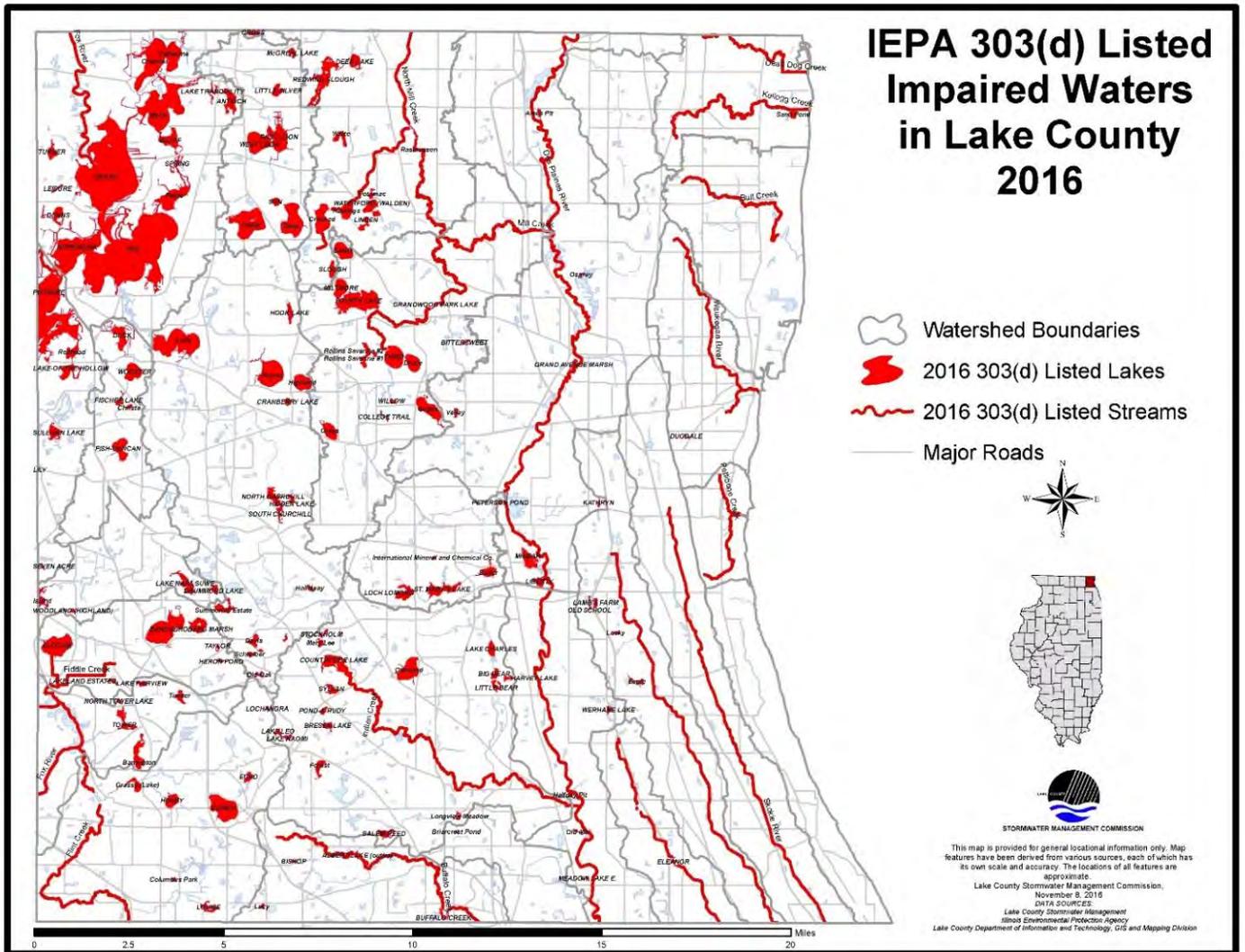


Figure E3.1

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 YR17 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 7 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 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 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 18 Stormwater Activities

The table below indicates the stormwater management activities that the QLP plans to undertake during Year 18. Additional information about the BMPs and measurable goals that the QLP will implement during Year 18 is provided in the section following the table.

Note: X indicates BMPs that will be implemented 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

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

Measurable Goal(s):

- Maintain and update the portion of the SMC website dedicated to IEPA's NPDES Stormwater Program with resources such as model ordinances, case studies, brochures, and links including information related to climate change.
- Make "The Big Picture: Water Quality, Regulations & NPDES" presentation available to Lake County MS4s.
- 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 quarterly MAC meetings and will continue to provide general support to Lake County MS4s as they continue to develop and implement their stormwater management programs. SMC will prepare an annual report on its stormwater management activities and will provide guidance to Lake County MS4s in preparing their own annual reports.

Measurable Goal(s):

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

C. Illicit Discharge Detection and Elimination

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

Measurable Goal(s):

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

C.2 Regulatory Control Program

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

Measurable Goal(s):

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

C.10 Other Illicit Discharge Controls

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

Measurable Goal(s):

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

D. Construction Site Runoff Control

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

D.1 Regulatory Control Program

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

Measurable Goal(s):

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

D.2 Erosion and Sediment Control BMPs

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

Measurable Goal(s):

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

D.3 Other Waste Control Program

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

Measurable Goal(s):

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

D.4 Site Plan Review Procedures

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

Measurable Goal(s):

- Administer the Enforcement Officer (EO) program outlined by the WDO.
- Maintain an up-to-date list identifying each community's designated enforcement officer.
- 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.

American Society of Civil Engineers (ASCE) Illinois Section
Certificate of Attendance

Jeffrey Cooper

participated in:

ILLINOIS MS4 IMPLEMENTATION SEMINAR

March 7, 2019

Schaumburg, IL

3.0 professional development hours

I hereby certify that on the above-mentioned date I did attend the event identified above, thereby earning the professional development hours listed.




Signed (attendee)




Stephen Randolph, P.E.
Board, ASCE IL Section Environmental & Water Resources Institute

Municipal Advisory Committee - MEETING AGENDA

April 10, 2019, 9:00-11:00 AM
Lake County Central Permit Facility
500 W. Winchester Rd., 2nd Floor, Libertyville, IL



STORMWATER MANAGEMENT COMMISSION

- I. Introductions** [5]
- II. Approval of Minutes**
 - a) Approval of December 2018 Meeting Minutes
- III. NPDES Municipal Stormwater Program**
 - a) MAC updates, Ernesto Huaracha, SMC [10]
 - i. Amended MAC By-Laws
 - ii. YR16 Annual Facilities Reporting Template
 - iii. MS4 Survey Proposed Questionnaire
 - iv. Misc. Updates
 - b) West Park-- Village of Wilmette [40]
 - Brigitte Ann Berger, Director of Engineering and Public Works
 - Mike Young, Senior Vice President of RJN Group
- IV. Ordinance Administrative Issues**
 - a) TAC Meeting Schedule for 2019 and Bulletin 70 Update [15]
 - Kurt Woolford, SMC
- V. SMC/Community Working Relationships**
 - a) The RainReady Community Tool: A Tool to Assist Stormwater Management Planning in Northeastern Illinois [40]
 - Dawn Walker, CNT Director of RainReady
 - Peter Haas, CNT Chief Research Scientist
- VI. Inter-jurisdictional Programs, Projects and Grants Forum**
 - a) Inter-jurisdictional Programs - **No Action**
 - i. Fremont Township GIS/Asset Inventory Program [20]
 - Herb Riedel, Fremont Township
 - b) Projects - **No Action**
 - c) Grants Forum - **No Action**
- VII. Upcoming Training Opportunities, Meetings, Events**
 - a) Lake County SMC DECI Workshop, April 11, 2019,
 - b) Snow and Ice Leadership Summit, April 17, 2019, This leadership summit is for decision makers and leaders from both the public and private sectors. The target audience is Public Works

Municipal Advisory Committee - MEETING AGENDA

April 10, 2019, 9:00-11:00 AM
Lake County Central Permit Facility
500 W. Winchester Rd., 2nd Floor, Libertyville, IL



STORMWATER MANAGEMENT COMMISSION

Directors, Property Managers, and others who help drive policy and lead winter maintenance operations.

VIII. Other Topics for Discussion

- a) Any MS4/NPDES related projects, awards achievements you wish to highlight and present to the Lake County community, please email ehuaracha@lakecountyil.gov.
- b) If you are not receiving email notifications regarding MAC, please email ehuaracha@lakecountyil.gov to be added to the digital email distribution list.

IX. Next Meeting

- a) December 11, 2019
- b) 2019 Schedule

X. Adjourn

***PDHs are self-reporting. If you want to apply MAC meetings towards your professional license keep the agenda and minutes w/sign in sheets.
***MS4 Program BMP fulfillment. If you want to apply MAC meetings and education towards your MS4 Program YR17 BMP Measurable Goals, keep the agenda and minutes w/sign in sheets.



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee
2019 Meeting Schedule**

Pursuant to the Open Meetings Act, public notice is hereby given that the Lake County Stormwater Management Commission's Municipal Advisory Committee (MAC) will meet as shown below at 9:00 a.m. at the Lake County Central Permit Facility, 2nd Floor Conference Room, 500 W. Winchester Road, Libertyville IL 60048.

MAC

April 10, 2019

December 11, 2019

Executive Committee

February 11, 2019

November 6, 2019

Meeting Minutes and Sign-in
Sheet for
Wednesday, December 5th, 2018

Municipal Advisory Committee (MAC)

Meeting Minutes for Wednesday, December 5th, 2018
Lake County Central Permit Facility, Libertyville



STORMWATER MANAGEMENT COMMISSION

Erika Frable, MAC Chair called the meeting to order at 9:00 a.m.

- I. **Introductions from attendees**
- II. **Approval of Minutes –September 5, 2018.** Minutes approved by consensus.
- III. **NPDES Municipal Stormwater Program**
 - a. **Rebecca Olson, Olson Ecological Solutions, LLC presented on Pollutant Load Reduction and benefits of Floating Treatment Wetlands.**
 - i. Rebecca discussed the basics of floating wetlands. She has been a proponent of floating wetlands and their functions. She chose to be a representative of Floating International wetlands.
 - ii. Floating wetlands are BMPs that improve water quality and mimic the natural function of vegetation qualities in aquatic habitat. Naturally occurring bacteria binds to the root systems and aids plants in the uptake of nutrients through the root system. The bacteria also break down water quality nutrients. The floating islands mimic the natural surface area of an island and used a recycled high-grade plastic as the growing base for the islands. The islands are buoyant based on the material design, after bacteria establishment the bacteria provide some portion of buoyancy to the island as well. The islands can be planted with native plants or plants of choosing. The density of materials prevents wildlife damage to the island. The islands maintain a UV-protection to minimize photo degradation. The systems require an anchoring system the goal is maintaining a fixed location.
 - iii. The islands can be deployed in multiple types of linear or other waterbodies such as lakes, ponds, and detention basins. The system reduces a range of pollutants (E.coli, fecal coliform, nitrogen, phosphorous, TSS, and others).
 - iv. Floating Islands International can provide a sizing criterion per project based on the current pollutant loads, continual inputs, and targeted pollutant loads.
 - v. The planted islands can be functioning in 3-6 months as plants mature.
 - vi. The islands have not been considered for wetland mitigation from the Army Corps of Engineers. The floating islands have been considered for grant funding for pollutant reduction.
 - vii. Costing, the standard island at 88sqft is approximately \$5000 per island pending project specifics.
 - b. **Karen Reynolds of Environmental Canine Services, LLC presented on a canine IDDE Program.**
 - i. The program started in 2009 in Michigan, there are currently three regional locations (NE coast, Midwest, and West coast). Travel is limited to vehicle travel within the inspection regions. Over 80 projects completed to date in 16 different streets and D.C. If known point discharge exists, dog and handler will travel upstream to determine source of contamination. Dogs can sample on 70 sites per day or 2 miles per day.
 - ii. Program provides immediate contaminant location points versus time and cost for lab sampling.
 - iii. Innovative way to track human sewage contamination and some detergent discharges. Dogs are trained by Environmental Canine Services. Dogs have powerful sense of smell, 100,000 times better than humans. They can isolate sense and determine direction of scent. Dogs can discriminate between multiple scents among a mix of smells.
 - iv. Canines can locate broken sanitary lines (earth movement, tree roots) and septic system failures or illegal tie-ins that leach into stormwater. Canines provide a quick response versus dye test or

Municipal Advisory Committee (MAC)

Meeting Minutes for Wednesday, December 5th, 2018
Lake County Central Permit Facility, Libertyville



STORMWATER MANAGEMENT COMMISSION

pipe camera inspection. Research study in California indicated that the canines were highly accurate to sewage (86%) and 100% accurate on samples that did not have sewage. Canines can indicate the presence and residual of sewage (mths. to yrs. later), as low as 1-part sewage to 10,000 parts water. Canines cannot indicate bacteria levels; lab test must indicate levels.

- v. Clean Ocean Action was an ongoing project that has shown improved water quality from canine inspection as client has fixed impacts to illicit discharge points.

c. Ernesto Huaracha, SMC presented on amending the Municipal Advisory Committee by-law language.

- i. Ernesto proposed amending the by-law language to reduce the meeting requirements for MAC from having a meeting at least every two months to a minimum of 2 general meetings annually with the option of additional meetings as needed. It was requested that a vote is needed to amend the by-laws.
- ii. The MAC attendees voted by consensus to approve the by-law modification.
- iii. The modified MAC by-laws will be presented to the SMC Board for ratification during the January 2019 meeting.
- iv. A 2019 Schedule was provided based on quarterly meetings but will be updated to reflect the by-law revisions. The updated calendar will be posted on the SMC Advisory Committee website, <https://lakecountyil.gov/2338/Standing-Advisory-Committees>.

IV. Ordinance Administrative Issues --No Action

V. SMC/Community Working Relationships

a. Ashley Warren, SMC presented on the Des Plaines River Watershed adoption process and watershed-based plan status.

- i. The watershed-based plan is complete for Des Plaines River Watershed planning area. This plan is also an umbrella plan covering 10 subwatersheds. A summation of the project timeline: vision statement, 7 goals, and 20 meetings. Over 800 attendees for planning timeframe.
- ii. Planning area includes: 12 Impaired Stream Segments representing 85 miles of rivers and streams and 60 Impaired Lakes.
- iii. Watershed plan assessments resulting actions include: Programmatic Actions and site-specific action plan recommendations based on pollutant load reductions per project type, Education & Outreach, Web Mapping Application (<https://lakecountyil.maps.arcgis.com/apps/webappviewer/index.html?id=4bec638a6b8f471eb4e7c3dee717f042>).
- iv. Next steps will be community adoption.
 - Lake County Stormwater Management Commission (Oct. 2018)
 - Lake County Board (Nov. 2018)
 - Communities (2018-2019)

b. Ernesto Huaracha, SMC presented on new QLP available resources for use by Lake County residents.

- i. Lake County SMC has purchased a license agreement with Excal Visual Inc. for the use of Community Awareness Illicit Discharge Education and Elimination Videos on the Lake County SMC website. The videos are available in multiple length segments, but SMC will only have the 10.5-minute video available online in English and Spanish. Please use the provided links.
- ii. The videos will be used as new BMPs in YR16 and yearly BMPs starting in YR17 as a minimum BMPs for Public Education and Outreach and Public Involvement, environmental justice.
- iii. Online Videos

Municipal Advisory Committee (MAC)

Meeting Minutes for Wednesday, December 5th, 2018
Lake County Central Permit Facility, Libertyville



STORMWATER MANAGEMENT COMMISSION

- Illicit Discharge Education and Elimination (English),
(<https://lakecountyil.swagit.com/play/11012018-930/>).
- Illicit Discharge Education and Elimination (Spanish),
(<https://lakecountyil.swagit.com/play/11012018-929/>).

VI. Inter-jurisdictional Programs, Projects and Grants Forum

- a. Inter-jurisdictional Programs **--No Action**
- b. Projects **--No Action**
- c. Grants Forum
 - i. No presentation but SMC WMB grant summary provided:
 - ii. FY2019 Watershed Management Board (WMB) Grant, SMC received 14 project applications for FY 2019 totaling \$5,048,095 and requesting \$397,376 of WMB funds. The Annual WMB Meeting is December 5th, 2018 at which time SMC staff will make a recommendation to the WMB for approval of 6 projects requesting \$182,760 of WMB Funds. Additionally, SMC has recommended 3 projects to the SIRF program for a total of \$99,914 of SIRF funding. SMC will seek Commission approval for WMB approved and SIRF projects in January.

VII. Upcoming Training Opportunities, Meetings, Events

- a. Lake County SMC DECI Workshop, 1st Quarter 2019

VIII. Other Topics for Discussion

- a. If you are not receiving email notifications regarding MAC, please email ehuaracha@lakecountyil.gov to be added to the digital email distribution list.
- b. If your MS4 community has any NPDES related projects, awards achievements you wish to highlight and present to the Lake County community, please email ehuaracha@lakecountyil.gov to schedule a presentation.

IX. Next Meeting

- a. MAC Meeting, a 2019 schedule was provided, but based on the consensus vote to reduce the minimum meeting requirements to at least 2 meetings per year the 2019 will be updated and announced pending approval by the SMC Board during its January 2019 meeting.

X. Adjourn

- a. Meeting adjourned at 11:00 a.m.

2018 Schedule:

General: April 4, 2018 —

General: September 5, 2018

General: June 6, 2018

General: December 5, 2018



STORMWATER MANAGEMENT COMMISSION

Municipal Advisory Committee Meeting December 4, 2018

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
1	John Tierney Baxter & Woodman	jtierney@baxterwoodman.com	Grayslake, Round Lake, Island Lake Lindenhurst, Winthrop Harbor
2	Chris Bouchard		RHMG, Beach Park, Green Oaks, Wauconda
3	Jerry Nellesen	jerry.nellesen@ villageofbeachpark.com	Beach Park
4	M. Adam, LCHD	madame@lccountyil.gov	
5	Nick Leach	nleach@village.gurnee.il.us	Gurnee
6	Brian Frank	bfrank@lccountyil.gov	LCPBED



STORMWATER MANAGEMENT COMMISSION

Municipal Advisory Committee Meeting December 4, 2018

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	<i>John Doe, Consultant Inc.</i>	<i>Ms4@worldwideweb.com</i>	<i>County/Township/City/ Village/Town/Drainage District</i>
7			
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10			
11			
12			



STORMWATER MANAGEMENT COMMISSION

Municipal Advisory Committee Meeting December 4, 2018

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	<i>John Doe, Consultant Inc.</i>	<i>Ms4@worldwideweb.com</i>	<i>County/Township/City/ Village/Town/Drainage District</i>
13			
14			
15			
16			
17			
18			



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee Meeting
December 4, 2018**

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	<i>John Doe, Consultant Inc.</i>	<i>Ms4@worldwideweb.com</i>	<i>County/Township/City/ Village/Town/Drainage District</i>
19	<i>May Keen, SMC</i>	<i>mkeen@lakecountyil.gov</i>	<i>?</i>
20	<i>Ed Lebbos</i>	<i>BLA, INC</i>	<i>Village of Libertyville</i>
21	<i>Ashley Strelcheck</i>	<i>'</i>	<i>SMC</i>
22	<i>Jeff Hansen</i>	<i>JHansen@LakeCountyIL.org</i>	<i>Lake County</i>
23	<i>Scott Firnbach</i>	<i>SFirnbach@rlpi1.com</i>	<i>Round Lake Park</i>
24	<i>BILL BLECKE</i>	<i>WBLECKE@MANHARD.COM</i>	<i>LK ZURICH</i>



STORMWATER MANAGEMENT COMMISSION

Municipal Advisory Committee Meeting December 4, 2018

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
25	Karen Daulton Lange	KDLange@LakeBarrington.org	Lake Barrington
26	Jacob Wellbank, Robinson Engineering, Ltd.	jwellbank@reltd.com	North Barrington
27	Joe Marencik	jmarencik2@lakecounty.il.gov	SMC Consultant
28	Dan Parro	dparro@towerlakes-il.gov	Tower Lakes
29	Patrick Spencer	Pat.Spencer@villageofbeachpark.com	Beach Park
30	Ernesto Huaracha Meix Spehlmann	ehuaracha@lakecounty.il.gov MSpehlman@lakecounty.il.gov	



STORMWATER MANAGEMENT COMMISSION

Municipal Advisory Committee Meeting December 4, 2018

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
31	Juli Crane	jcrane@lakecountyil.gov	SMC
32	MIKE WARNER	MWARNER@LAKE COUNTYIL.GOV	SMC
33	Beth Adler		
34			
35			
36			



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee Meeting
December 4, 2018**

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
37	MIKE PRUSILA	MPRUSILA@LAKESUMMIT.IL.GOV	LAKE CO. SMC
38	Keelan Noonan	noonank@foxlake.org	Village of Fox Lake
39	FRANK J. FOLEY	FJFOLEY@POLICE	ECONOMY LAKE P&E WILCOX, ILL.
40	ROB BYRNE	RBYRNE@LINCOLNSHIRE.IL.GOV	LINCOLNSHIRE
41	Caitlin Burke		Bewalt Hamilton Associates
42	ADAM BOECHE	ABOECHE@MUNDELEIN.ORG	MUNDELEIN

Municipal Advisory Committee - MEETING AGENDA

December 11, 2019, 9:00-11:00 AM
Lake County Central Permit Facility
500 W. Winchester Rd., 2nd Floor, Libertyville, IL



STORMWATER MANAGEMENT COMMISSION

- I. **Introductions** [5]
- II. **Approval of Minutes** [5]
 - a) Approval of April 2019 Meeting Minutes
- III. **Inter-jurisdictional Programs, Projects and Grants Forum**
 - a) Inter-jurisdictional Programs
 - i. SMC Stormwater Capital Improvement Fund [20]
Mike Warner- SMC
 - b) Projects - **No Action**
 - c) Grants Forum - **No Action**
- IV. **NPDES Municipal Stormwater Program**
 - a) Aquatic Maintenance Presentation [35]
Michael Perkaus, Aquatic Ecosystems Management
 - b) Survey Questionnaire Summary [15]
Ernesto Huaracha, SMC
 - c) MS4 Webmap Update Summary [10]
Ernesto Huaracha, SMC
- V. **Ordinance Administrative Issues**
 - a) Watershed Development Updates (WDO) Updates [15]
Kurt Woolford, SMC
- VI. **SMC/Community Working Relationships**
 - a) Flood Problem Area Webmap for Lake Michigan & North Branch Chicago River Watershed-Based Plans [5]
Ashley Strelcheck, SMC
 - b) Des Plaines River Watershed-Based Plan Report Card Announcement [5]
Ashley Strelcheck, SMC
- VII. **Upcoming Training Opportunities, Meetings, Events**
 - a) Lake County SMC DECI Workshop, February 26,2020
 - i. Present at the 2020 DECI Workshop; Presentations should be between 30-45 minutes; The deadline to submit a topic is December 31, 2019.
- VIII. **Other Topics for Discussion**
 - a) Any MS4/NPDES related projects, awards achievements you wish to highlight and present to the Lake County community, please email ehuaracha@lakecountyil.gov.
 - b) If you are not receiving email notifications regarding MAC, please email ehuaracha@lakecountyil.gov to be added to the digital email distribution list.

Municipal Advisory Committee - MEETING AGENDA

**December 11, 2019, 9:00-11:00 AM
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STORMWATER MANAGEMENT COMMISSION

IX. Next Meeting

- a) April 15, 2020
- b) 2020 Schedule

X. Adjourn

***PDHs are self-reporting. If you want to apply MAC meetings towards your professional license keep the agenda and minutes w/sign in sheets.
***MS4 Program BMP fulfillment. If you want to apply MAC meetings and education towards your MS4 Program YR17 BMP Measurable Goals, keep the agenda and minutes w/sign in sheets.

2019 MAC Meeting Schedule:

General: 4/10/2019	Executive: 2/11/2019
General: 12/11/2019	Executive: 11/6/2019

2020 MAC Meeting Schedule:

General: 4/15/2020	Executive: 2/5/2020
General: 12/09/2020	Executive: 11/4/2020



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee
2020 Meeting Schedule**

Pursuant to the Open Meetings Act, public notice is hereby given that the Lake County Stormwater Management Commission's Municipal Advisory Committee (MAC) will meet as shown below at 9:00 a.m. at the Lake County Central Permit Facility, 2nd Floor Conference Room, 500 W. Winchester Road, Libertyville IL 60048.

MAC

April 15, 2020

December 9, 2020

Executive Committee

February 5th, 2020

November 4th 2020

Meeting Minutes and Sign-in
Sheet for
Wednesday, April 10, 2019

Municipal Advisory Committee - MEETING MINUTES

April 10, 2019, 9:00-11:00 AM
Lake County Central Permit Facility
500 W. Winchester Rd., 2nd Floor, Libertyville, IL



STORMWATER MANAGEMENT COMMISSION

Erika Frable, MAC Chair called the meeting to order at 9:00 a.m.

- I. **Introductions from attendees**
- II. **Approval of Minutes -December 5, 2018.** Minutes approved by consensus.
- III. **NPDES Municipal Stormwater Program**
 - a. **MAC updates, Ernesto Huaracha, SMC**
 - i. The MAC meeting by-laws have been amended. At the last meeting a change was proposed to decrease the four annual meetings to a minimum of two annual meetings. Ideally these meetings would occur in the first and third quarters, and if need additional meetings can still be called. On January 17, 2019 these changes were ratified by the SMC Board. The 2019 schedule has been amended to reflect this change and is available at: <https://www.lakecountyil.gov/DocumentCenter/View/27131/2019-MAC-Meeting-Schedule-PDF?bidid=> .
 - ii. The reporting template is complete and will be emailed out April 15, 2019. The template is also available on SMC's website: **YR16 Annual Facilities Reporting Template**. There were not significant changes made to the YR16 template from the previous year. It was also mentioned that the two Illicit Discharge videos presented at the December 5, 2018 meeting have been posted on the SMC website:
<https://lakecountyil.swagit.com/play/11012018-930/>
<https://lakecountyil.swagit.com/play/11012018-929/>
The Integrated Water Report is still in draft form and is likely not to be updated until year 17.
 - iii. A MS4 survey questionnaire is being developed. The questionnaire will be about 10-15 questions in length and will be used to summarize information previously requested by audits as well as information about the types of projects being pursued by Lake County communities. The survey results will help create consistency in countywide MS4 programs.
 - iv. The MS4 Community Tool has been updated to include the Illinois EPA environmental justice area layers as well as watershed-based plan layers. It can be found at: <https://lakecountyil.maps.arcgis.com/apps/webappviewer/index.html?id=0d60824433734de3bb7905c1113a8539>. There is a PDF tutorial that can be downloaded for further assistance.
 - v. The USA EPA climate change link is defunct, please refer to NASA's website as a resource: <https://climate.nasa.gov/>
 - b. **Brigitte Ann Berger, Director of Engineering and Public Works Village of Wilmette and Mike Young, Senior Vice President of RJN Group, West Park Project.**
 - i. Brigitte Ann Berger contextualized the project: the Village of Wilmette has areas of combined sewers and separate sewers. During rain events the Village would experience severe sanitary backups. After several major flooding events, the community felt it was time to act. They started by gathering flood data from surveys sent to village residents as well as data from flow meters. RJN Group was hired to do an in-depth review of the sewer system, monitor flow, and create a model of the system. During the April 18th, 2013 storm it was discovered that flow from Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) system was backflowing upstream and preventing water from leaving the Village. Since flooding was so prevalent in the community there was widespread support for the proposed project. The project design consisted of a pump over lift station,

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STORMWATER MANAGEMENT COMMISSION

a 5.5 million gallon belowground storage tank, and a control center. A park district field near the site of the MWRDGC connection was selected for the storage tank. Since the field was relatively isolated it made it an ideal project location. The Village used their flow data to convince MWRDGC to issue a permit for the project. Aside, from the permit this was the only assistance provided by MWRDGC. The permit only allowed for 150 gallons per capita per day to be pumped over the lift station, which influenced the design of the project.

- ii. Mike Young discussed how using a 'design build' approach allowed for the project to be completed within the one-year timeframe stipulated by the park district. When using a design build approach, the project should be at least 30-40 percent complete before it is presented to a contractor. Mike selected subcontractors he was familiar with, which also helped to expedite the process.
- iii. Mike discussed some of the technical elements involved in designing a functional project and presented a slideshow of construction pictures.
- iv. It took approximately three months to excavate and complete the storage tank itself. Once this was complete the park district could begin doing their construction to ensure the field was in playable condition. Meanwhile the control center was tested to make sure it was fully operational. The final cost of the project was \$14.5 million.
- v. Brigitte concluded the presentation. In March 2016 the project became operational, and two months later the system was tested by a 100-year storm event. There were significantly fewer backups with the new system in place. Overall the tank has been very low maintenance. Brigitte restated the importance of having good data before beginning a project of this magnitude.

IV. Ordinance Administrative Issues

a. TAC Meeting Schedule for 2019 and Bulletin 70 Update Kurt Woolford, SMC

- i. In March of 2019, at the ISFM conference, the 2019 Bulletin 70 Update was presented: <https://www.ideals.illinois.edu/handle/2142/103172>. Over the last hundred years, in Lake County, rainfall has fluctuated from year to year but has generally increased. Bulletin 70 lists new rainfall values, which will have a profound impact on how stormwater infrastructure is sized. For example, the 100-year 24-hr storm event is used to size detention basins. Currently the rainfall depth for this storm event is 6.5 in., but increased to about 8.58 in. with the 2019 Update. SMC calculated that in the past 100 years there has been a 33% increase in rainfall, which translates to about an 11% increase in stormwater infrastructure sizing. This will require amending existing ordinances. The State of Illinois is recommending the 2019 rainfall values be used for future floodplain studies, but they will not enforce these changes until January 1, 2020.
- ii. There was a brief discussion concerning what communities should be doing in light of this information. Mike Warner said SMC might be able to provide a multiplication factor for infrastructure sizing.
- iii. This topic will be discussed further on April 18th at the 9am TAC meeting. If there are further questions they can be emailed to Kurt Woolford, KWoolford@lakecountyil.gov

V. SMC/Community Working Relationships

a. The RainReady Community Tool: A Tool to Assist Stormwater Management Planning in Northeastern Illinois

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Lake County Central Permit Facility
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STORMWATER MANAGEMENT COMMISSION

Dawn Walker, CNT Director of RainReady and Peter Haas, CNT Chief Research Scientist

- i. Dawn introduced the Center for Neighborhood and Technology (CNT). CNT is a non-profit organization that addresses urban flooding and encourages sustainability through community development and outreach. CNT collected flood data in Cook County and found 92% of flooding happened outside of the floodplain and a majority of this flooding occurred in low-income communities. This research prompted the State of Illinois to conduct a similar study, which yielded comparable results.
- ii. The program RainReady is the result of data collection and interviews conducted by CNT. The program was launched in 2014 and is designed to complement green infrastructure. CNT conducts outreach, property assessments, and report design to mitigate flooding for private homeowners as well as for entire communities.
- iii. Case study: Village of Oak Park project cost share program.
- iv. Community Tool: <http://myrainready.cnt.org/>
- v. Peter Haas overviewed the management calculator and mentioned an updated calculator will be available later this year. Peter also discussed other models he has built to examine the effectiveness of BMPs, as well as his progress in developing a national calculation tool.

VI. Inter-jurisdictional Programs, Projects and Grants Forum

a. Fremont Township GIS/Asset Inventory Program

Mike O'Kelly, Fremont Township

1. Mike O'Kelly discussed the various ways Fremont Township has implemented GIS. Fremont Township has created maps of their road signs, snow pile locations, and the types and condition of street and road pavement. Using this technology has greatly improved the efficiency of township operations.

VII. Upcoming Training Opportunities, Meetings, Events

- a. Lake County SMC DECI Workshop, April 11, 2019
- b. Snow and Ice Leadership Summit, April 17, 2019, this leadership summit is for decision makers and leaders from both the public and private sectors. The target audience is Public Works Directors, Property Managers, and others who help drive policy and lead winter maintenance operations.

VIII. Other Topics for Discussion

- a. Any MS4/NPDES related projects, awards achievements you wish to highlight and present to the Lake County community, please email ehuaracha@lakecountyil.gov.
- b. If you are not receiving email notifications regarding MAC, please email ehuaracha@lakecountyil.gov to be added to the digital email distribution list.

IX. Next Meeting

- a. December 11, 2019

X. Adjourn

- a. Meeting adjourned at 11:02 a.m.

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***MS4 Program BMP fulfillment. If you want to apply MAC meetings and education towards your MS4 Program YR17 BMP Measurable Goals, keep the agenda and minutes w/sign in sheet



STORMWATER MANAGEMENT COMMISSION

Municipal Advisory Committee Meeting April 10, 2019

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldidevweb.com	County/Township/City/ Village/Town/Drainage District
1	HERB Riedel, FREMONT Township	highway@fremonttownship.com	FREMONT Township
2	Mike O'Kelly, FROONT TWP	Highway@fremonttownship.com	FREMONT Township
3	Ed Lebbos, BLA, INC	elabbos@bla-inc.com	BLA, Inc / Libertyville
4	Edgar Jones	eijones@cityhpil.com	Highland Park, City of
5	ROBERT ELLS	ells@cityoflakeforest.com	LAKE FOREST
6	JOHN TIERNY	tierney@baxterwoodsmn.com	Graylake, Round Lake, Island Lake Lindenhurst, Winthrop Harbor.

Pherson Osterby

osterby@lakecountyil.com STC



STORMWATER MANAGEMENT COMMISSION

Municipal Advisory Committee Meeting April 10, 2019

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
7	Ramesh Kanapureddy Highland Park	rkana@cityofhpl.com	Highland Park
8	BRICK FARRÉ	efarr@cityofhpl.com	U of the Home Care
9	BUD REED		ESDD
10	YAMIN YAITIN	YAYAMIN@STATE ENGINEERS.COM	Drainage District
11	GREG GRUEN	ggruen@reltd.com	HAINESVILLE / NORTH BRANSTON
12	Joe Warrick		

MIKE WARRICK
DAVID B

LEDMC
Vernon Hills

MUMFORD &
LAW SECURITY
ILLINOIS, COV



STORMWATER MANAGEMENT COMMISSION

Municipal Advisory Committee Meeting April 10, 2019

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
13	Heather Galan Village of Gurnee	hgalan@village.gurnee.il.us	Gurnee
14	Roberts Phillips Drivers	robert.phillips@desfield-il.us	Drivers
15	CHRIS GHEYSEN	cgheysen@marhard.com	Various
16	GEORGETY PERRY	gperry@gha-engineers.com	VARIOUS
17	Juli Crane	jcane@lakecounty.il.gov	SWE
18	Chris Bouchard	cbouchard@rhmg.com	RHMG, Beach Park, Green Oaks, Winnetka



STORMWATER MANAGEMENT COMMISSION

Municipal Advisory Committee Meeting April 10, 2019

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
19	FRANK J. FOLKERS	FRANK.FOLKERS@WORLDWIDEWEB.COM	
20	ROB BIRNIE	RBIRNIE@LINCOLNSHIRE.ILL.GOV	VILLAGE OF LINCOLNSHIRE
21	KURT WOODFORD	KWOODFORD@LAKECOUNTY.IL.GOV	Lake Co.
22	Bryan Frank	BFRANK@LAKECOUNTY.IL.GOV	LC PRD
23	Darren Dism	dolson@ch2h1.com	HW
24	Kelcey Traynoff	Ktraynoff@lakecounty.il.gov	Lake County



STORMWATER MANAGEMENT COMMISSION

Municipal Advisory Committee Meeting
April 10, 2019

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
25	LISA WOODFORD	woodford@environment.com	all of Lake Co.
26	Michael T. Albert	mtalbert@villageoflake.com	KILDEER
27	Scott Firnback	S.Firnback@nsi.com	Round Lake Park
28	Lisa Brocke	lbrocke@rhmg.com	many ?
29	Miles Prussia	mprussia@lakes.com	—
30	Peter Hlasta & Dawn Walker	phh@cut.org	—



STORMWATER MANAGEMENT COMMISSION

Municipal Advisory Committee Meeting April 10, 2019

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
31	Aude MARRIED	MARRIED@foxlake.org	FOX LAKE
32	Mark Stockley	m.stockley@foxrivergrove.org	Fox River Grove
33	Karen Davlton Lange	KOLange@LakeBarrington.org	Barrington & Org
34	Marna Larsberg	mclarsberg@villageofbannockburn.org	Bannockburn
35	Marie Hansen	mhanzen@barrington-il.gov	Barrington
36	Mike Young	myoung@rpnmail.com	—



STORMWATER MANAGEMENT COMMISSION

Municipal Advisory Committee Meeting April 10, 2019

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldidweb.com	County/Township/City/ Village/Town/Drainage District
37	JEFF Cooper / Libertyville	jcooper@libertyville.com	Libertyville
38	Caitlin Burke / GHA	cburke@gha-engineers.com	
39	STEVE BACKINS / THE GREEN	shackling@ingreen.com	
40	BILL BLECKE / MANHARD	WBLECKE@MANHARD.COM	LAKE ZURICH
41	John Bonna Bleck		
42	FRED GEWERT	fgewert@libertyville.com	Libertyville

Ernesto Huamachay

SME also

DES PLAINES RIVER WATERSHED PLAN COMMITTEE MEETING AGENDA

LAKE COUNTY CENTRAL PERMITTING FACILITY
500 W. WINCHESTER ROAD, LIBERTYVILLE, IL 60048
WEDNESDAY, OCTOBER 23, 2019 * 10:00 AM – 11:00 AM

1. *Introductions*

2. *Plan Committee Purpose:*

- a. Evaluate the watershed's progress in implementing the Des Plaines River Watershed-Based Plan
- b. Coordination on watershed project implementation and forum to discuss stakeholder work/efforts
- c. Ultimately, update the Des Plaines River Watershed-Based Plan (2028)

3. *Overview of Des Plaines River Watershed Scorecard*

- a. Review scorecard based on Year 1 metrics
- b. Additional ways to achieve / measure milestones

4. *Watershed Coordination and Announcements*

- a. Project Coordination Items
- b. Watershed Announcements

5. *Des Plaines River Watershed Plan Steering Committee*

- a. Stakeholder Interest
 - i. Number of Meetings

6. *Next Steps*

- a. TBD by Plan Committee
- b. Next Meeting: Spring 2020

Des Plaines River Watershed-Based Plan Resources

- a. 2018 Des Plaines River Watershed-Based Plan: <http://www.lakecountyil.gov/DocumentCenter/View/22641>
- b. Action Plan Web Application: <https://lakecountyil.maps.arcgis.com/apps/webappviewer/index.html?id=4bec638a6b8f471eb4e7c3dee717f042>

Des Plaines River Watershed-Based Plan Scorecard Evaluation

Scoring Criteria	A = Met or exceeded milestone(s)	D = Milestone(s) 25% complete	N/D = No Data		
	B = Milestone(s) 75% complete	F = No progress towards milestone(s)			
	C = Milestone(s) 50% complete	I/D = Insufficient Data (SMC will update as data becomes available)			
OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>
1a	Watershed stream annual monitoring program support. Goal #1 Actions 1-4	S	Continue water quality monitoring through DRWW monitoring program	A	Monitoring is ongoing.
		M			
		L			
	Implementation of watershed monitoring program for lakes. Goal #1 Actions 5-7	S	1. Enroll 15 lakes in the Volunteer Lake Monitoring Program (VLMP)	ND	Ask LCHD LMU
			2. Install staff gages		
			3. Begin Lake inlet water quality monitoring		
M	1. Enroll 30 lakes in the Volunteer Lake Monitoring Program				
	2. Analysis of monitoring and VLMP data				
3. Estimate/assess nutrient loads from watershed for 5 lakes with sufficient data.					
L	1. Enroll 40 lakes in the Volunteer Lake Monitoring Program				
	2. Analysis of 5-10 year water quality trends for lakes with sufficient data				
1b	Number of water bodies removed from the Illinois EPA's impairments list. Goal #1 Actions 1-10	S	2 Lakes / 1 stream segment	I/D	2018 is the most recent integrated water quality report, update when new report is released
		M	6 Lakes / 3 stream segments		
		L	30 Lakes / 6 steam segments		
	Number of causes of impairment removed. Goal #1 Actions 1-7	S	5 lakes / 2 streams	I/D	2018 is the most recent integrated water quality report, update when new report is released
		M	10 lakes / 5 streams		
		L	40 lakes / 13 streams		
1c	Winter Maintenance Program establishment including: policy and manual development, de-icing workshop attendance and certification. Goal #1 Actions 8-9	S	20% of municipal programs	A	Buffalo Grove, Ela Township, Gurnee, Lake Zurich, Libertyville, Lincolnshire, Mundelein, Hawthorn Woods, IDOT, LCDOT, Northfield Township, Prospect Heights. (57 total: 54 municipalities/townships, LCDOT IDOT and Tollway in planning area) De-icing survey, discuss how frequently this survey will be conducted.
		M	40% of municipal programs		
		L	100% of municipal programs		

Des Plaines River Watershed-Based Plan Scorecard Evaluation

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	C = Milestone(s) 50% complete	I/D = Insufficient Data (SMC will update as data becomes available)			
OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>
1d	Number of local units of government that adopt a phosphorous ordinance. Goal #1 Action 14	S	8	ND	Ask in community survey or review municipal code. This may be an opportunity to put into MS4 survey?
		M	20		
		L	All municipalities		
	Number of exceedances of permitted phosphorus concentrations from wastewater treatment plant effluent. Goal #1 Action 16	S	0% reduction in exceedances	ND	SMC (EH) is looking into this
		M	25% reduction in exceedances		
		L	50% reduction in exceedances		
	Number of agricultural BMPs implemented that target phosphorous. Goal #1 Action 10	S	1. 5 acres grass conversion	ND	Ask if MLSWCD/NRCS can provide data.
			2. 10 WASCOBs		
			3. 5 equestrian facility/ livestock operations		
			4. 5 grass waterways		
			5. 250 acres no-till and cover crops		
			6. 5 field borders		
		M	1) 10 acres grass conversion		
			2) 10 WASCOBs		
			3) 10 equestrian facility/ livestock operation		
			4) 10 grass waterways		
			5) 1,000 acres no-till and cover crops		
			6) 10 field borders		
		L	1) 5 acres grass conversion		
			2) 10 WASCOBs		
3) 10 equestrian facility/ livestock operations,					
4) 10 grass waterways,					
5) 3,000 acres no-till and cover crops					
6) 10 field borders					
Number of upgraded septic systems. Goal #1 Action 15	S	500	ND	Ask LCHD or PB&D. Is a permit required for septic system upgrades?	
	M	1,200			
	L	2,000			

Des Plaines River Watershed-Based Plan Scorecard Evaluation

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OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>
	Number of municipalities that have codes that allow or require green infrastructure for stormwater management. Goal #1 Actions 11-13	S	8	ND	Include in community or MS4 survey. Could also review each municipalities municipal code if it is online.
		M	20		
		L	All municipalities		
1e	Number of dams and impoundments removed or retrofitted. Goal #1 Actions 17-18	S	1	A	Rasmussen lake dam has been removed. Grandwood Park dam was retrofitted but no fish passage. Community or MS4 survey
		M	2		
		L	3		
1f	Reduction in concentrations of total suspended solids (TSS). Goal #1 Action 19	S	10%	I/D	Use DRWW data summary report.
		M	20%		
		L	45%		
	Linear feet of streambank and shoreline restored. Goal #1 Action 20	S	5,000 linear ft	A	Total: 8,535 Check 319 and WMB grants. Ask Grubb School and Avon-Freemont drainage districts. Include in community survey. Ask LCFPD.
		M	15,000 Linear ft		
		L	30,000 Linear ft		
1g	Number of algae blooms reported. Goal #1 Action 21	S	Quantify baseline number of algae blooms	ND	Ask LCHD LMU. Should we remove reported algal blooms if they are reported but not problematic?
		M	10% reduction		
		L	20% reduction		
1h	Percentage of identified sources of fecal coliform addressed. Goal #1 Actions 22-24	S	Identify and quantify sources of fecal coliform pollution	I/D	Use DRWW data summary report.
		M	50% addressed		
		L	75% addressed		
1i	Concentration of PAHs detected in water quality/sediment monitoring efforts. Goal #1 Action 25	S	Identify locations of high PAH concentrations	I/D	Use DRWW data summary report.
		M	Develop a management and remedial action plan		
		L	Plan Implementation		
1j	Number of MS4 communities maintaining a database of pollution prevention plans that address emergency response to catastrophic events. Goal #1 Actions 26-27	S	10	ND	Investigate appropriate source for information.
		M	20		
		L	All		
1k	Number of action recommendations completed. Goal #1 Actions 28-43	S	50	A	Total programmatic and site specific = 61 Check 319 and WMB grants. Ask Grubb School and Avon-Freemont drainage districts. Include in community survey. Ask HOA's and LCFPD.
		M	100		
		L	All		

Des Plaines River Watershed-Based Plan Scorecard Evaluation

Scoring Criteria	A = Met or exceeded milestone(s)	D = Milestone(s) 25% complete	N/D = No Data				
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	C = Milestone(s) 50% complete	I/D = Insufficient Data (SMC will update as data becomes available)					
OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>		
2a	Number of water bodies removed from the Illinois EPA's impairments list. Goal #1 Actions 1-10	Addressed by Objective ID 1b (1)					
	Number of causes of impairment removed. Goal #1 Actions 1-7	Addressed by Objective ID 1b (2)					
	Area of open space identified and preserved for environmental and recreational natural areas. Goal #2 Actions 17-24	S	1,000 acres (in addition to 2018 baseline of 27,000 acres preserved)		F	66 acres Include in community survey. Do Land Preservation Partners of Lake County maintain this information?	
		M	2,000 acres (in addition to 2018 baseline of 27,000 acres preserved)				
		L	3,000 acres (in addition to 2018 baseline of 27,000 acres preserved)				
	Acres of invasive species removal/management projects. Goal #2 Actions 28-29	S	2,500		D	929.43 acres Check 319 grants. Ask LCFPD, HOA's, park districts, drainage districts, and Openlands. Include in community survey.	
		M	5,000				
		L	10,000				
	2b	Area of degraded natural communities restored. Goal #2 Actions 1-3, 6, 7-11, 15, 16, 23, and 25-28	S	1,000 acres		A	1,049 acres Check 319 and WMB grants. Ask LCFPD, HOA's, park districts, drainage districts, and Openlands. Include in community survey.
			M	5,000 acres			
L			20,000 acres				
2c	Length of native plant buffers along water bodies maintained, expanded, and/or restored. Goal #2 Actions 12-13	S	10 miles		F	1.9 mi Check 319 and WMB grants. Ask LCFPD, HOA's, park districts, drainage districts, and Openlands. Include in community survey. Would forest preserve properties be included in this?	
		M	20 miles				
		L	50 miles				
2d	Acres of wetlands enhanced and/or restored. Goal #2 Actions 14-15	S	500 acres		F	112 acres Check 319 and WMB grants. Ask LCFPD, HOA's, park districts, drainage districts, and Openlands. Include in community survey. Talk to SMC (GW and JEC) about wetland mitigation banks in watershed	
		M	1,500 acres				
		L	3,000 acres				
2e	Area of open space identified and preserved for environmental and recreational natural areas. Goal #2 Actions 17-24	Addressed by Objective ID 2a					

Des Plaines River Watershed-Based Plan Scorecard Evaluation

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OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>
2f	Number of new trail connections. Goal #2 Action 25	S	5	B	1 new trail connection in Rollins Savanna, 1 new trail connection at CPF, may be additional trail connections at Everett Rd. Include in community survey. Ask LCFPD and LCDOT.
		M	10		
		L	20		
2g	Number of lake management plans developed to address aquatic resource trends based on lake reports. Goal #2 Action 26	S	5 plans	ND	Ask LCHD LMU
		M	10 plans		
		L	25 plans		
	Number of lake management plan project recommendations implemented. Goal #2 Action 26	S	5 plans	ND	Ask entities identified in lake management plans provided by LCHD LMU
		M	5 projects implemented		
		L	10 projects implemented		
2h	Number of lakes with Aquatic Plant Management Plans (APMP). Goal #2 Action 27	S	5	ND	Ask LCHD LMU
		M	10		
		L	25		
2i	Acres of invasive species removal/management projects. Goal #2 Actions 28-29	Addressed by Objective ID 2a			
2j	Number of successful reintroductions of threatened and endangered native species into natural habitats. Goal #2 Action 30	S	1 attempted	A	Forest preserve has Blandings Turtle program, not sure where they are being introduced. Ask LCFPD.
		M	5 attempted		
		L	2 successful		
3a	Area of new or restored flood storage sites. Goal #3 Actions 1-9	S	25 acres	ND	Include in community survey. Check grant projects
		M	50 acres		
		L	100 acres		
3b	Number of flood problem areas positively affected by flood mitigation projects implemented. Goal #3 Actions 1-9	S	10	ND	0, Include in community survey. Discuss what constitutes a positive impact (do we assume any project is a positive impact or is there a quantifiable threshold needed).
		M	20		
		L	30		
3c	Number of flood insurance policies in the watershed communities. Goal #3 Action 24	S	Track number of NFIP policies	ND	What is the best way to do this?
		M	Track number of NFIP policies		
		L	Track number of NFIP policies		

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OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>
	Number of Lake County Floodproofing Workshop attendees. Goal #7 Actions 1-2, 4-5, 9, 13, 17-18	S	300	F	No floodproofing workshops in 2018-19 Check floodproofing workshop attendance records
		M	600		
		L	900		
3d	Number of action recommendations completed. Goal #1 Actions 28-43 Goal #3 Actions 6-9	Addressed by Objective ID 1k			
3e	Number of mapped overland flow routes. Goal #3 Action 10	S	1 subwatershed	ND	What is the best way to do this?
		M	5 subwatersheds		
		L	All 10 subwatersheds		
3f	Number of municipalities that have codes that allow or require green infrastructure for stormwater management. Goal #1 Actions 11-13	Addressed by Objective ID 1d			
3g	Number of local drainage system improvement projects implemented. Goal #3 Actions 1-10, 22, 25	S	25	F	4, Check 319, SIRF, and WMB grants. Include in community survey.
		M	50		
		L	100		
3h	Number of communities with established stream maintenance programs. Goal #3 Action 18	S	10	ND	Include in Community survey.
		M	15		
		L	All municipalities		
3i	Number of updated FEMA floodplain maps (less than 10 years old). Goal #3 Actions 19-21	S	2	I/D	What is the best way to do this?
		M	5		
		L	Entire planning area		
3j	Number of Voluntary Floodplain Buyouts. Goal #3 Action 22	S	20	F	No buyouts between 2018-2019. SMC (\$Ø) for yearly update. Add to community survey
		M	50		
		L	400		
3k	Number/value of claims filed each year per community in the watershed. Goal #3 Actions 24	S	Reduce by 5%	I/D	Total Losses: 2,465 Total Payments: \$31,687,223 Numbers are total losses from 1979-2018. Download form in 2019 and subtract 1979-2018 numbers to establish 2019 baseline. Reporting includes the entire jurisdiction, including unincorporated Lake County. Most jurisdictions are only partially in the Des Plaines River watershed
		M	Reduce by 10%		
		L	Reduce by 25%		

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OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>	
4a	Number of action recommendations completed. Goal #1 Actions 28-43 Goal #3 Actions 6-9 Goal #4 Actions 2-4	Addressed by Objective ID 1k				
4b	Number of cost-sharing programs available in the DPR planning area. Goal #4 Actions 5-7, 9	S	5	C	at least 3 319, WMB, SIRF What is the best way to do this, Check Appendix L Potential Funding Sources and see if any of those agencies can provide this data.	
		M	7			
		L	10			
	Amount of grant funding available for stormwater green infrastructure and BMPs. Goal #4 Actions 5 and 9	S	\$2,500,000	ND	What is the best way to determine what is available? Check Appendix L Potential Funding Sources and see if any of those agencies can provide this data.	
		M	\$3,000,000			
		L	\$5,000,000			
4c	Number of municipalities that have codes that allow or require green infrastructure for stormwater management. Goal #1 Actions 11-13 Goal #4 Actions 8-9, 11	Addressed by Objective ID 3f				
4d	Number of local, county, and state representatives provided educational outreach materials for improving local and countywide regulations. Goal #4 Action 9	S	20	ND	What is the best way to do this?	
		M	40			
		L	50			
4e	Funding increase for in-the-ground stormwater BMPs. Goal #4 Actions 5 and 9	S	10% increase from 2018 baseline	ND	What is the best way to do this?	
		M	10% increase from 2018 baseline			
		L	20% increase from 2018 baseline			
4f	Number of existing stormwater management structures retrofitted. Goal #4 Actions 10-11	S	30	F	7 total Check 319, WMB, SIRF projects. Include in community survey. Ask HOA's.	
		M	100			
		L	500			
	Number of developments built using conservation design principles and/or green infrastructure. Goal #2 Action 19 Goal #3 Action 11-15 Goal#4 Action 4, 8	S	30	ND	Discuss how to define a development. Check permit database. Include in community survey for certified communities. Ask PB&D for unincorporated areas.	
		M	60			
		L	80			

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OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>
4g	Potential maintenance needs identified in future stream and detention basin inventories. Goal #3 Action 18 Goal #4 Action 11, 15	S	N/A	ND	To SMC's knowledge, potential maintenance needs are only identified with plan updates so it is not possible to track for Medium time frame
		M	10% aggregate reduction from 2018 baseline		
		L	20% aggregate reduction from 2018 baseline		
4h	Number of communities with established stream maintenance programs. Goal #3 Action 18	Addressed by Objective ID 3h			
4i	Lane miles of roadway retrofitted or constructed with BMPs. Goal #4 Actions 12-13	S	5 miles	ND	Include in community survey. Ask LCDOT, Tollway, and IDOT. Review ILR10?
		M	10 miles		
		L	15 miles		
4j	Number of informational guides on roles and responsibilities for stormwater gray/green infrastructure maintenance distributed. Goal #7 Action 9	S	2,000	ND	What is the best way to do this? The only numbers we can put out there is NBWW, DRWW, and SMC publications. Everything else would have to come from the DPR Plan Committee or via the survey
		M	5,000		
		L	10,000		
4k	Number of compliant site inspections performed during the 10-year operation and maintenance period for Illinois EPA	S	All 319 grant funded projects	B	CLC Project not compliant, all others are compliant.
		M	All 319 grant funded projects		
5a	Number of municipalities, counties, and natural resource agencies that adopt the Des Plaines River Watershed-Based Plan. Goal #5 Actions 1 and 2	S	25 Agencies	A	31 agencies adopted
		M	All agencies		
		L	All agencies		
5b	Watershed stream annual monitoring program support. Goal #1 Actions 1-4 Goal #5 Action 3	Addressed by Objective ID 1a			
5c	Establishment of lead organization (watershed planning committee) with budget and executive committee. Goal #5 Actions 4-6	S	1 lead organization	B	Org. has been established; budget (unknown at this time) and executive board (Steering Committee TBD)
		M			
		L			

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OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>
	Number of projects advanced/undertaken with the support of the watershed planning committee. Goal #5 Actions 7-8	S	100 action plan recommendations	F	No projects taken on by the committee
		M	250 action plan recommendations		
		L	500 action plan recommendations		
5d	Communities that have a designated individual or board member(s) to participate on the watershed planning committee. Goal #5 Action 4, 13	S	10 communities	C	In progress
		M	20 communities		
		L	All communities		
5e	Number of jurisdictions implementing watershed site-specific and programmatic actions. Goal #5 Actions 9-11	S	10	A	10 total Could maybe get information from plan committee or survey? If neither of these, look at the project tracking spreadsheet, doing just this may miss some programmatic actions.
		M	20		
		L	All		
5f	Number of jurisdictions that have ordinances and programs that protect and preserve watershed natural resource areas. Goal #5 Actions 12-14	S	10	I/D	Could maybe get information from plan committee or survey?
		M	20	ND	
		L	All		
	Number of municipalities that have codes that allow or require green infrastructure for stormwater management. Goal #5 Actions 10, 14	Addressed by Objective IDs 3f & 4c			
5g	Number of RiverWatch sites/lakes enrolled in volunteer/citizen scientist river and lake monitoring programs. Goal #1 Action 2 Goal #7 Actions 13	S	25	ND	Ask LCHD LMU
		M	50		
		L	75		
5h	Number of watershed stakeholders providing feedback for the watershed report cards. Goal #5 Action 15	S	30	F	SMC, Wadsworth Update as feedback is received
		M	100		
		L	200		
6a	Number and area of agricultural BMPs installed. Goal #6 Actions 1-9	S	25 BMPs cumulatively treating greater than 1,000 acres.	ND	Ask if MLSWCD/NRCS can provide data.
		M	50 BMPs cumulatively treating greater than 2,000 acres		
		L	100 BMPs cumulatively treating greater than 5,000 acres		
6b	Number or percent of farms, equestrian facilities, and nurseries with Resource Management Plans. Goal #6 Action 10	S	5%	ND	Ask if MLSWCD/NRCS can provide data.
		M	25%		
		L	50%		

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OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>
6c	Number of high priority sediment reduction agriculture BMPs installed. Goal #6 Actions 11-12	S	15	ND	Ask if MLSWCD/NRCS can provide data.
		M	30		
		L	60		
	Demonstration sites established and monitored. Goal #7 Action 2, 7, 13	S	3	ND	Not sure what the best way to determine this is. Does LCFPD have any demonstration sites? Also do we have a defined criteria for what type of demonstration site or can it be a site that was temporary - i.e. cover crops, or does an educational event have to take place? LCFPD AG BMP site was the first one with native seed in the grassed ww's and that was a demonstration to see if the site would be successful.
		M	5		
		L	7		
	Length of drain tile removed or disabled. Goal #6 Action 12	S	5,000 ft	A	19,493 total Check 319 grants, WMB, SIRF. Community Survey
		M	10,000 ft		
		L	30,000 ft		
6d	Number of county and municipal agencies that have adopted a farmland preservation program(s). Goal #6 Action 13	L	Community dependent	ND	Ask if MLSWCD/NRCS can provide data.
	Acres of cover crops or crop residue left on fall agricultural fields. Goal #6 Action 1, 8, 10, 13	S	5% of all conventional or reduced tilled fields (500 acres)	ND	Ask if MLSWCD/NRCS can provide data.
		M	25% of all conventional or reduced tilled fields (2,500 acres)		
		L	50% of all conventional or reduced tilled fields (5,000 acres)		

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OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>
6e	Acres of waterway, wetland, WASCOD, field border, filter strip, GSS and other erosion control agriculture BMPs that are implemented, enhanced or restored. Goal #6 Actions 1-9, 11-12	S	1) 5 acres grass conversion	ND	Ask if MLSWCD/NRCS can provide data.
			2) 10 WASCODs,		
			3) 5 equestrian facility/livestock operations,		
			4) 5 grass waterways,		
			5) 250 acres no-till and cover crops,		
			6) 5 field borders		
			7) 5 acres filter strips,		
			8) 50 acres of wetlands		
			9) 10 nutrient management plans		
		M	1) 10 acres grass conversion		
			2) 10 WASCODs		
			3) 10 equestrian facility/livestock operations		
			4) 10 grass waterways		
			5) 1,000 acres no-till and cover crops		
			6) 10 field borders		
			7) 10 acres filter strips		
			8) 100 acres of wetlands		
			9) 50 nutrient management plans		
		L	1) 5 acres grass conversion		
			2) 10 WASCODs		
			3) 10 equestrian facility/livestock operations,		
			4) 10 grass waterways,		
			5) 3,000 acres no-till and cover crops,		
			6) 10 field borders,		
			7) 10 acres filter strips,		
			8) 200 acres of wetlands		
			9) 100 nutrient management plans		
6f	Number of prime farmland acres in production. Goal #6 Action 14	L	75% of all prime farmland (2018 baseline)	ND	Look into Census of agriculture, Lake County Land Use, national land cover database (EH). Ask if MLSWCD has this info.

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OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>
7a	Number of landowners that receive information about best practices for stream and lake shoreline restoration and maintenance. Goal #7 Action 1-2, 4, 13	S	500	ND	Community Survey
		M	500		
		L	2,000		
7b	Number of people reached by watershed outreach campaign. Goal #7 Actions 2, 4, 10-11, 16	S	Establish outreach campaign	ND	Community Survey
		M	5,000		
		L	10,000		
7c	Number of public agencies and local private contractors attending the annual Lake County De-icing Workshop. Goal #1 Actions 8-9 Goal #7 Action 3	S	20 public agencies; 100 local private contractors	C	2018 & 2019: 329 people 15 Private Group 75 Public Agencies
		M	35 public agencies; 150 local private contractors		
		L	All public agencies with winter maintenance responsibilities; 200 local private contractors		
	Number of public agencies with winter maintenance responsibilities that use alternative de-icing products. Goal #1 Actions 8-9 Goal #7 Action 3	S	20	A	Arlington Heights, Avon Township, Beach Park, Benton Township, Buffalo Grove, Deerfield, Ela Township, Glenview, Grayslake, Gurnee, Hainesville, IDOT, Illinois Tollway, Kildeer, Lake Forest, Lake Zurich, LCDOT, Lincolnshire, Lindenhurst, Mundelein, Palatine, Round Lake Beach, Round Lake, Third Lake, Vernon Hills, Vernon Township, Warren Township, Waukegan, Wheeling, Zion, Waukegan Township, Riverwoods, Libertyville Township, Hawthorn Woods, Antioch Township, Bristol, Libertyville, Round Lake Park . 38 using alternatives (57 total in planning area)
		M	35		
		L	All		
7d	Number of property owners that receive information about the importance of watershed health. Goal #7 Actions 2, 4, 11	S	2,000	A	Diamond Lake 2,000 Diamond Lake History and Stewardship Guides Not sure of the best way to track this
		M	5,000		
		L	10,000		
7e	Number of landowners that receive information about watershed programs and projects. Goal #7 Actions 2, 10, 12	S	2,000	A	Diamond Lake 2,000 Diamond Lake History and Stewardship Guides, Not sure of the best way to track this
		M	5,000		
		L	10,000		
	Number of workshops. Goal #7 Actions 13, 16, 18	S	10	C	2 De-icing workshop, 2 DECI, 1 HOA Workshop
		M	20		
		L	30		

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OBJECTIVE ID	INDICATOR	TIMEFRAME	MILESTONE <i>June 2018 is used as the baseline for scorecard</i>	GRADE	COMMENTS <i>(bold text indicates suggestions for tracking indicator)</i>	
	Number of action recommendations completed. Goal #1 Actions 28-43 Goal #3 Actions 6-9 Goal #4 Actions 2-4 Goal #7 Actions 20-21	Addressed by Objective IDs 1k				
	Continuous increase in number of contacts on the SMC Des Plaines River watershed contact database. Goal #7 Actions 2, 4, 10-11, 16	S	5% increase	I/D	2019 baseline: 2,205 Ask SMC (DH) yearly	
M		7% increase				
L		10% increase				
7f	Pollution prevention campaign established. Goal #7 Actions 2-5, 8, 17, 22	S	Establish campaign	I/D	Not aware of any outreach campaigns	
		M	Maintain campaign			
		L	Maintain campaign			
7g	Number of volunteers for lake, stream, and natural area stewardship and maintenance. Goal #7 Actions 13-14	S	500	ND	Ask Forest Preserve, Libertyville township, Don Wilson (Almond Marsh), DPR River Stewards. Are there any other volunteer events?	
		M	500			
		L	1,000			
7h	Number of native plant demonstration sites established, and trainings held. Goal #7 Actions 15-16, 21-22	S	1 site / 1 training/yr.	ND	Not aware of any demonstration sites. Ask LCFPD - Matt Ueltzen or Jim Anderson to start. Also maybe Sarah Surroz with Openlands	
		M	2 sites / 2 trainings/yr.			
		L	2 sites / 2 trainings/yr.			
7i	Number of communities that adopt the "no adverse impact standard." Goal #7 Action 17	S	2	ND	Community survey?	
		M	5			
		L	All applicable communities			
7j	Number of educational flyers or mailings to high flood risk property owners about flood mitigation measures. Goal #7 Action 18	M	5,000	ND	Not aware of any outreach campaigns Community survey?	
	Number of clicks (overall activity) on SMC website with flooding resources. Goal #7 Action 4, 18	S	5% increase in 2018 baseline	A	On track for a 50% increase from baseline. The increase might be smaller by end of year due to less visits in winter. 2019 up to September 30: 2381 clicks. 2018 whole year: 2114 clicks	
		M	7% increase in 2018 baseline			
		L	10% increase in 2018 baseline			
7k	Number of educational signs regarding aquatic invasive species installed. Goal #7 Actions 20-22	S	10	ND	Ask LCHD LMU	
		M	20			
		L	At least one sign at every lake with public access			



Village Views

The newsletter of the Village of Libertyville, Illinois

A Message from the Mayor

It's that season again, not Spring (although that's here now too), but pothole season. The past winter has been very difficult on our roads in Libertyville. Even roads that are fairly new have experienced potholes this past winter. Fixing roads and paying for storm water facilities are two large items on the Village Board's agenda at this time. We are trying to get the best bang for the buck for our residents. Unfortunately that can sometimes be difficult due to constraints placed on us by funding and regulations.

There have been some studies done on different types of road surfaces including recycled plastics and other types of stone and asphalt surfaces. Since our roads are paid for through motor fuel tax and other sources that come from the State of Illinois (despite being paid by our residents), we are limited from trying any alternative sources by IDOT requirements. While I am not advocating any specific method, I would like to see us be able to look at potential savings alternatives rather than following antiquated requirements set by the State. I believe, these requirements are typically endorsed by people who have funded campaigns.

The Village will also be spending an additional \$2 million dollars updating our sewage treatment plant this year to lower phosphorus levels in our effluent before being released into the water. I support regulations to improve our environment. However, we have taken actions to limit phosphorus in the Village. Phosphorus is no longer allowed in fertilizer, the most common source for high phosphorus levels. Phosphorus is also found naturally in the environment. We should be doing everything we can to protect our environment for our children but we must be aware of the financial impact on our residents and the State must supply us with a way of funding these types of mandates.

We are also determining how to fund our storm water system. Hundreds of our residents suffered disastrous flooding in 2017. We had already begun an engineering study before the flooding and

[continued on page 2](#)

Memorial Day Activities

Libertyville's Memorial Day Ceremony will take place on Monday, May 27. Participants will gather at the Metra Train Station at 9:00 a.m. for a 9:30 a.m. parade to Cook Park.

The program will continue there with music from the Libertyville High School Band, presentations by Mayor Wepler, representatives of the American Legion and Veterans of Foreign Wars, and high school essay contest winners. **Non-emergency Village offices and Village Hall will be closed on Memorial Day.**

Cook Park Playground Replacement

In October of 2018 the Village approved a Parks Master Plan to help guide park development decisions for the next fifteen years. The first playground identified within the plan for replacement is within Cook Park. The Village recently selected a design for the replacement of the playground. The design includes pour-in-play rubber surface for ADA accessibility, two slides, two expression swings which allow an adult and child to swing together, several climbing features and ground level music play options. The Village received a grant to help fund the project through the Illinois Parks and Recreation Association's Promote Play and [continued on page 6](#)

Libertyville
2030 COMPREHENSIVE PLAN
Community Speak-Out #2

Join us anytime between
May 9 3:30 p.m.-8:00 p.m.
Libertyville Civic Center

For more information, visit the project website at:
www.libertyvillecomprehensiveplan.com

Share your vision!

A Message from the Mayor

continued from page 1

completed a report indicating that \$45 million in improvements will be required to protect our residents. We are now working on how to fund these necessary improvements.

Your property tax bill will be arriving in the next month. The Village's portion of the tax bill is less than ten percent for all of the services provided by the Village. If anyone has any questions on any portion of their bill or how Village services are funded please feel free to call me at Village Hall and set up an appointment. I'm always happy to talk to our residents about any Village issue. Have a Happy Spring.

Mayor Terry Weppeler

Libertyville Special Summer Events

July 4th Celebration

- Butler Lake Park

Village Band Concert: 7:30 p.m.

Fireworks at approximately: 9:30 p.m.

Village Band Concerts

- Cook Park
- Thursdays 7:30 p.m.

The UPS Store Libertyville



- UPS & DHL Shipping
- Notary Services
- Fax Services
- Freight Services
- Document Shredding
- AT&T & Comcast Returns
- Printing, Copying & Finishing Services
- Mailbox Services
- Packaging Service & Supplies
- USPS Services & Postage

872 S. Milwaukee Ave.
Libertyville, IL 60048

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12
Dealerships

19
Brands

1
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Join Our Fitness Center

It's time to get fit! Join the Libertyville Sports Complex Fitness Center. Annual individual memberships cost only \$365.

Family and Senior rates are available. Free fitness classes with membership. No registration fees. Call **(847) 367-1504** or visit www.LibertyvilleSportsComplex.com for more information.

Adult Sports Leagues

The Libertyville Sports Complex offers a variety of sports leagues for adults, men and women.

Men's Leagues: Softball (12", 16"), Basketball (18+, 30+), Indoor Soccer (18+, 30+), Flag Football (18+)

Women's Leagues: Indoor Soccer (30+), Basketball (18+)

Co-ed Leagues: Softball (14"), Kickball

For more information, visit www.LibertyvilleSportsComplex.com/adultsports. Call **(847) 367-7054** or email sjenkins@libertyville.com

Looking For A Summer Job?

The Recreation-Sports Complex Department is accepting applications for a variety of Summer positions including lifeguards, swim instructors, managers, cashiers, front desk, day camp counselors and other positions. Applications are available at www.libertyvillesportscomplex.com/jobs or call **(847) 918-7275**.

Buy a Brick

The Village of Libertyville is once again offering the Buy a Brick Program for Cook Park.

Residents and businesses can purchase one or more personally engraved 4" x 8" bricks, which can be used to celebrate someone or something important in your life, identify you or your family as a donor/supporter of the Park, or memorialize a loved one. The bricks are \$100 each, and for an additional \$75 you can order a replica keepsake brick. Order forms are available at the Village Hall and online at www.libertyville.com, orders and payment must be submitted no later than August 15. There are approximately 1,000 bricks available. Contact the Village at **(847) 362-2430** for more information.



Offering a play based, faith based preschool curriculum - DCFS Licensed - Military Discount



CrossWays Preschool

- Age 2 to 5 years
- Half Day Preschool Program
- Half Day Summer Camp
- Enrichment Classes

(847) 367-4367
cpreschool.org
crossways@holycrosschurch.org



Celebration! Childcare

- Age 6 weeks to 12 years
- Full Day Preschool Program
- Full Day Summer Camp
- After School Services

(847) 367-6208
cchildcare.org
celebration@holycrosschurch.org

at Holy Cross Lutheran Church
29700 N St. Mary's Rd Libertyville, IL 60048

Where Love and Learning Meet

Libertyville

GARDENS

Longing for the taste of a juicy, ripe, homegrown tomato?

Planning to grow your own? We have a spot for you! Lease a plot at Libertyville Gardens and get growing. Libertyville Gardens offers staked plots, multiple water sources, a storage shed, and a shaded area for resting. Growing season runs May-November.

Fees

20'x10' plot: \$20 + \$25 deposit = \$45

20'x20' plot: \$35 + \$25 deposit = \$60

Deposits returned at the end of the season if plot is cleared.

To register call **(847) 918-7275**. Once registered you'll be emailed with additional details. For more information about the program, contact Chris Sandine, Associate Planner, at csandine@libertyville.com or **(847) 918-2028**.

Tree City USA Award

The Village of Libertyville has once again been named a Tree city USA for 2018 – a distinction it has enjoyed since 1994.

Tree City USA, a national recognition program that began in 1976, is sponsored by the Arbor Day Foundation in partnership with the U.S. Forest Service and National Association of State Foresters. Municipalities must apply for this award and meet four fundamental standards to be considered.

The application is vetted through the state and forwarded on to a national committee for review. If all standards are met at both levels, the municipality is recognized as a Tree City USA community. Residents can then enjoy the knowledge that they have a greener and healthier community!



LIGHTNING FACTS

There are an estimated 23 million cloud-to-ground lightning flashes each year in the United States, nearly 800,000 of which occur in Illinois alone.

- A majority of lightning strike victims were either outdoors in an open area, or taking part in an activity near the water such as fishing, tubing or swimming.
- On average, about 67% of lightning fatalities and injuries occur outdoors at recreation events (sports fields, golf courses, lakes, swimming pools) and near trees.
- Illinois ranks eighth in the country for the most lightning strikes and second in the Midwest, behind Missouri.

Lightning Safety Tips

- The best shelter from lightning is inside a building with the windows and doors closed.
- If no substantial shelter is available, seek refuge in a hard-topped vehicle, with the windows closed.
- Avoid carports, porches, garages, sheds, tents, baseball dugouts, under bleachers or any rain shelter that does not have windows and doors that can be closed.

If there is no safe shelter anywhere nearby, seek lower elevation areas away from trees, metallic objects and bodies of water. Stay away from trees, electrical poles or other tall objects.

Simply put - No place outdoors is safe when a thunderstorm is near.



New Ambulance

The Village received a new Horton Ambulance on January 2, 2019.

The ambulance will replace the current ambulance at Fire Station 2 as part of a scheduled vehicle replacement program. The new ambulance includes a state of the art cardiac monitor, defibrillator, a power cot and a cot lift assist system. It is estimated that the new ambulance will respond to approximately 1,100 emergency calls per year from Fire Station 2.

2019 Village Vehicle Sticker Sales

Village Vehicle Stickers are currently on sale at the Village Hall. As of May 1 all vehicles were required to display them on windshields.

Applications were mailed in March. A vehicle sticker is required for all vehicles registered or housed in the Village (including those registered for business in the village). The cost of a sticker is \$30 for cars and trucks. The minimum penalty for not having a valid vehicle sticker displayed is \$100. One hundred percent of vehicle sticker revenue supports repairing Village streets. An application can be found online at www.libertyville.com/villagesticker.



Did You Know?

Water and Sewer Bills

Get your water bill electronically! Email waterbill@libertyville.com with your name, email, and property address. Note that once you begin receiving an electronic bill, you will no longer receive a paper copy in the mail. Your water bill can also be paid automatically from a bank account. Visit www.libertyville.com/waterbillform for an application. If you prefer to pay online with a credit card, you will need your account number and PIN (check the top right corner of your bill). Review your account history by accessing your account online.



SWIMMING POOL SEASON PASSES

Adler Pool 1500 North Milwaukee Avenue

Riverside Pool 870 Country Club Drive

ORDER YOUR SEASON PASSES NOW

- Individual Passes
- Family Passes

Special pricing for Libertyville residents.

Adler Pool can host group outings and birthday parties.

Buy your season passes at Adler Pool office, the Libertyville Sports Complex Fitness Center, on-line at www.LibertyvilleSportsComplex.com/registration or call **(847) 918-7275**.

2019 50/50 Parkway Tree Planting Program



Annually the Village Board allocates funds for the Village's 50/50 parkway tree planting program to preserve the tree canopy and diversify the tree species within the

Village.

The "50/50" tree program is an opportunity to plant a new or replacement tree within the Village by sharing the cost of purchasing and installing the tree with the Village.

The program is intended to replace trees that have been removed from the Village parkways, mostly due to disease or poor health. Residents are encouraged to participate in this voluntary program. The Village does limit the quantities of the most commonly chosen species to alleviate the possibility of future diseases and insects from devastating several hundred trees. This will help to ensure that a single species is not overplanted and provide for a diverse tree population.

The program is available on a first come, first served basis. 50/50 Tree Planting informational packets will be available during the late spring. They will include a list of tree species to be offered, a program description, order form, watering instructions and the cost for purchase and installation. Trees are typically planted in the fall, are 2-inch caliper in size and include a one-year warranty.

For tree planting information contact Parks Staff at **(847) 918-2074** and for a 50/50 Tree Planting Packet contact Laura Ditanto at **(847) 247-5432**.

Spring Clean-up

With spring and early summer comes the need to clean up! Often melted snow reveals garbage and debris that needs to be cleared away. The Village asks that residents and businesses participate in the clean-up process.

Whether garbage is found on the sidewalk in front of your property or on a nearby bike trail, picking it up and throwing it away will help to keep our community clean. The Village will be doing our part as well. Street sweeping began on April 15. The Village typically completes 8 Village-wide sweeps annually along with 30 of the central business district. In addition, the Village's contractual landscapers will be cleaning up in community parks. For information on disposal of garbage and yard waste visit the Village's website at <http://www.libertyville.com/124/Waste-and-Recycling-Services>.

Rockland Road Construction

Rockland Road between Milwaukee Avenue (IL Route 21) to St. Mary's Road is planned for roadway reconstruction beginning this summer. Work will be completed in two phases. The project will not include the section at the bridge over the Des Plaines River.

The segment of Rockland Road between Milwaukee Avenue to the bridge is under the Village's jurisdiction. The segment between the bridge and St. Mary's Road is under the jurisdiction of the Libertyville Township Highway Department. The proposed roadway reconstruction work will be completed in separate construction contracts, one for each segment.

For the Village's segment (Milwaukee Avenue to the bridge), construction is anticipated to begin this summer with underground utility improvements, which will include new storm sewers, water main replacements, sanitary sewer relocations and private utility work. Traffic will be shifted one-way eastbound during this time. Westbound traffic will be detoured via IL Route 176. Construction will shut down for the winter and two-way traffic will be temporarily restored. A public information meeting which will include the ability for the public to view the plans associated with the reconstruction project is anticipated to occur in late spring or early summer of 2019.

It is anticipated that the roadway pavement reconstruction work for both segments will be completed in 2020. Replacement of the bridge carrying Rockland Road over the Des Plaines River will be part of a future project. It is anticipated that the replacement of the bridge will occur no sooner than 2022.

For additional information and updates regarding the project visit the Village website at www.libertyville.com/rocklandroad and the Township website at <http://www.libertyvilletownship.us/>.

Cook Park Playground Replacement

continued from page 1

Recreation grant for 50% of the cost of the playground structure. The playground is anticipated to be replaced in late spring/early summer. The existing playground equipment will be donated to Kids Around the World a nonprofit organization that repurposes used playground equipment in other countries (photo opposite).



Check out what is offered @ www.libertyville.com/recreation.
SPRING-SUMMER Call (847) 918-7275.

The Recreation & Sports Complex Department offers a variety of programs, activities and events during the summer months. Call **(847) 918-7275** for information.

To register visit www.LibertyvilleSportsComplex.com/registration



ADLER PARK & RIVERSIDE POOLS

Adler Opening Day: Sat. May 25
Riverside Opening Day: Sat. June 8
Kids: Summer Swim Lessons for all levels
Join our Dolphin Swim Team start in June
Adults: Aqua Fit and Aqua Challenge classs



ADLER SUMMER DAY CAMP

Boys and Girls grades K-7
Full and half-day camp
Sessions from June to August



SPORTS CAMPS FOR KIDS

Weekly camps for specific sports, including soccer, baseball, basketball, cricket, non-contact football, fencing, plus camps with a mix of sports.

SWIMMING LESSONS AT ADLER POOL

- For Kids ages 6 months and older
- Various sessions and instruction levels
- Four (4) two (2) week sessions from June 11 – August 2

SUMMER DAY CAMPS AT ADLER PARK

- Boys and Girls grades K-7
- 9:00 a.m.-3:00 p.m.
- Weekly sessions June 10 – August 9

TEEN TRAVELERS BIKING CAMP AT ADLER PARK

- Boys and Girls ages 11-14
- 9:00 a.m.-3:00 p.m.
- Weekly Sessions June 10 – August 9

LIBERTYVILLE SAFETY TOWN CRAWFORD HOUSE @ BUTLER LAKE

- Boys and Girls grades K-2
- 12:30 p.m.-2:30 p.m.
- June 10-21, June 24 – July 6, July 8-19

SPORTS & MORE SUMMER SPORTS CAMPS AT LIBERTYVILLE SPORTS COMPLEX

- Boys and Girls grades K-6
- Weekly sessions June 10 – August 16
- 9:00 a.m.-Noon, 12:30 p.m.-3:30 p.m., 7:30 a.m.-9:00 a.m., 3:30 p.m.-5:00 p.m.

PRE-SCHOOL ENRICHMENT CAMPS

- Camp Adventure, kids ages 5 & 6
- Sunshine Kidz, children ages 3 & 4
- 2-day and 3-day camps June 10 – July 19

PINT-SIZED SPORTS AT LIBERTYVILLE SPORTS COMPLEX

- Classes for kids ages 2-6
- Various sessions from June 18 – August 1



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Village of Libertyville
118 West Cook Avenue
Libertyville, Illinois 60048
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email: vol@libertyville.com

Mayor
Terry Weppler

Trustees
Donna Johnson
Richard Moras
Jay Justice
Scott Adams
Peter Garrity
Patrick Carey

Village Clerk
Sally Kowal

Village Administrator
Kelly Amidei

website: libertyville.com

**ECRWSS
Postal Customer**

The **Village Views** is published by the Village of Libertyville, Illinois, in the belief that interested and informed citizens are the safeguard for good government.

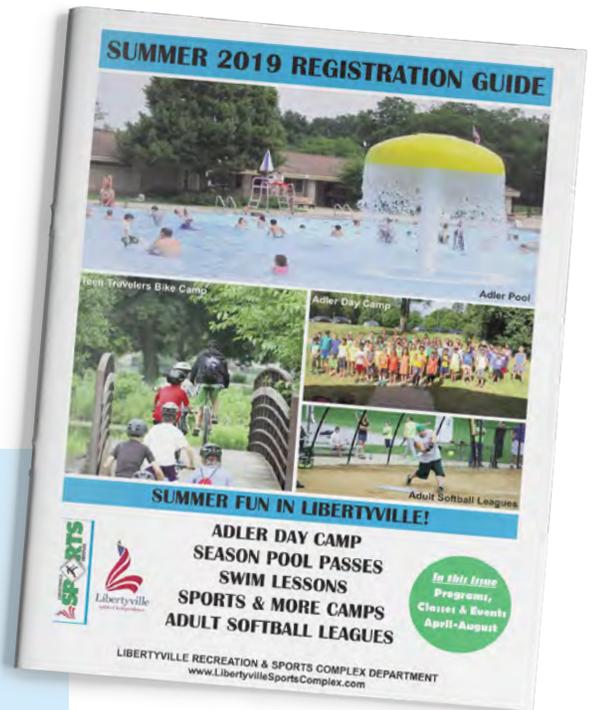
Explore Libertyville



Register Now

The Spring-Summer registration brochure for the Recreation and Sports Complex Department has been mailed to all Libertyville households.

Residents can register now for hundreds of fun programs, events and other activities. Don't wait. Sign up for swimming pool season passes, swimming lessons, summer day camp, golf lessons, pre-school programs, sports camps and much more. Call **(847) 918-7275** for more information or go to www.Libertyville.com/recreation to view entire brochure and sign up for activities.



CONNECT WITH THE VILLAGE



Facebook:
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Instagram:
[libertyville_il](https://www.instagram.com/libertyville_il)

Twitter:
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Subscribe to E-News:
www.libertyville.com



Village Views

The newsletter of the Village of Libertyville, Illinois

A Message from the Mayor

Over the years I have reminded residents to “Shop Libertyville”. Recently while driving through our parking garage I happened to look at the license plate frames on cars indicating where the vehicle was purchased and then checking to see if they had a Libertyville vehicle sticker. I found that less than half of the cars with Libertyville stickers had frames indicating they were purchased at a Libertyville dealer.

Six years ago our residents approved a road referendum bond for \$20 Million. These bonds are now being paid for by property taxes. I bring this up because residents often ask me how we can reduce our Village portion of property taxes dedicated to re-payment. The Village receives over \$4.2 Million a year from auto sales tax revenue. That’s the amount of money spent on our road bonds over five years. As our motor fuel tax revenue from the State of Illinois continues to decline we face the inability to complete the road repairs we need to keep our streets in good condition. We need additional funds to complete road repairs and for other capital improvements including storm water improvements.

When shopping for your next vehicle I ask you to consider buying from one of our 13 Libertyville Mile of Cars dealers. If every resident purchased their cars in Libertyville we would likely not need to ask residents for additional referendum funds to support aging infrastructure. We could improve roads and make other improvements to keep Libertyville the great community we all love. Even if another dealer offers you a couple hundred dollar discount, you would save more on your property taxes by buying in Libertyville over the years if all of our residents would buy in Libertyville.

I hope you'll think about this the next time you consider buying a new car. Remember, “Shop Libertyville” and have a good summer.

Mayor Terry Weppeler

Moon Mission Libertyville Days

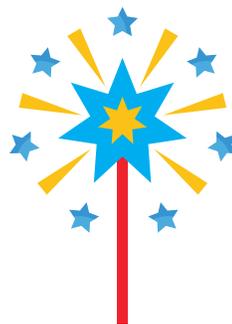
This year’s Libertyville Days Festival, Moon Mission, is June 13-16, 2019.

The festivities include Lake County’s largest and most spectacular parade, featuring marching bands, horses and helium balloons on Saturday, June 15. It steps off at 10:00 a.m. from the Metra train station and travels south on Milwaukee Avenue to Rockland Road.

The Libertyville Days Festival is organized by the Libertyville Civic Center Foundation, with help from members of the Junior Woman’s Club, and Knights of Columbus, who donate thousands of volunteer hours each year in support of the Libertyville Civic Center. The Festival also includes activities, great food vendors, and Main Stage Entertainment all weekend. Among the choices are a Beer Garden, Church Street Eats featuring some great vendors, Children’s Party, Miss Libertyville Pageant, Fireman’s Rib Cook-Off, Jalapeño Pepper Eating Contest, Baggo Tournament, Cook Mansion Open House and more. The entire schedule of events will be available in local stores, newspapers and at the Civic Center.



Happy Birthday America



Celebrate our country's birth with your friends and neighbors on the 4th of July. The fun begins with a concert of patriotic music performed by the Village Band at 7:30 p.m. at the Butler Lake Band Shell. A Spectacular fireworks display will begin at approximately 9:30 p.m.

For safety reasons, Lake Street will close to pedestrians and vehicle traffic at 9:00 p.m. before the show. Parking will be available at Butler Lake Park (residents only), the main commuter lot, both parking garages, and Butterfield School.

[See Fireworks Safety on page 7](#)

Tenth annual Northshore Wine and Beer fest

The Libertyville Sunrise Rotary will be sponsoring the tenth annual Northshore Wine and Beer fest Saturday August 24th on Church Street in downtown Libertyville. General admission is from 4:00 p.m. – 8:30 p.m. There's also a VIP Wine tasting from 3:30 p.m. – 6:00 p.m. General Admission tickets are \$40 when purchased in advance and \$50 the day of the event. For more information and to purchase tickets please visit www.northshorewineandbeerfest.com. The Festival is one of the club's major fundraising events. Since it's inception in 1987 the club has donated more then \$1.5 million to local and

international charities including literacy and scholarship programs; programs to combat hunger, homelessness and domestic violence, the eradication of polio and more. At their recent annual giving dinner on May 1st The Sunrise Rotary donated more then \$88,000 to thirty five local charities. For more information about Sunrise Rotary please visit their website <http://libertyvillesunriserotary.com>. The club's 40 members are always accepting new members and welcome anyone wishing to find out more to attend one of their weekly meetings. The club meets at 7:00 a.m. Wednesdays at Lambs Farm.

Libertyville Days

Thursday, June 13
6:00 p.m. – 10:30 p.m.

Friday, June 14
1:00 p.m. – 11:00 p.m.

Saturday, June 15
12:00 p.m. – 11:00 p.m.

Sunday, June 16
1:00 p.m. – 5:30 p.m.

The Carnival is located on Church Street, Civic Center Parking Lot & Sunrise Rotary Park.

Unlimited Ride Special: \$25 per person per day for the following dates and times only: Thursday 6:00 p.m.–10:30 p.m. Friday 1:00 p.m.–6:00 p.m. Saturday 12:00 p.m.–5:00 p.m. ONLY Sunday 1:00 p.m.–5:30 p.m.

Price subject to change. No refunds will be given.

The UPS Store Libertyville



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Libertyville, IL 60048

Phone: (847) 918-0181
Fax: (847) 918-0184
store1319@theupsstore.com



MEETINGS • PARTIES SPECIAL EVENTS

"The Gathering Place" Room rentals available for all types of gatherings.
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Offering a play based, faith based preschool curriculum - DCFS Licensed - Military Discount



CrossWays Preschool

- Age 2 to 5 years
- Half Day Preschool Program
- Half Day Summer Camp
- Enrichment Classes

(847) 367-4367
cpreschool.org
crossways@holycrosschurch.org



Celebration! Childcare

- Age 6 weeks to 12 years
- Full Day Preschool Program
- Full Day Summer Camp
- After School Services

(847) 367-6208
cchildcare.org
celebration@holycrosschurch.org

at Holy Cross Lutheran Church
29700 N St. Mary's Rd Libertyville, IL 60048

Where Love and Learning Meet



Join Our Fitness Center

It's time to get fit! Join the Libertyville Sports Complex Fitness Center. Annual individual memberships cost only \$365.

Adult Softball Leagues

Sign up! Next season starts in August.

Monday-Thursday 12" for men.

Friday 14" co-ed (men and women).

Sunday 12" for men.

For more information, visit www.LibertyvilleSportsComplex.com/adultsports. Call (847) 367-7054 or email sjenkins@libertyville.com



THIS SUMMER

DON'T FORGET TO VISIT



Located at 600 West Oak Spring Road
www.lakeminearbeach.com

Annual Water Quality Report

To view the Annual Water Quality Report, please go to www.libertyville.com/2019CCR. This report contains important information about the source and quality of our drinking water. If you would like a paper copy mailed to your home, please call the Public Works Department at **847-362-3434**.



Libertyville Mile Of Cars
Shop local and support our schools and community

<h1>12</h1> <p>Dealerships</p>	<h1>19</h1> <p>Brands</p>	<h1>1</h1> <p>Mile of Cars</p>
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Shop local & keep your tax dollars in Libertyville!

LibertyvilleMileOfCars.com

Visit the Ansel B. Cook Home

Whether a new or frequent visitor to the Ansel B. Cook Home, you will want to stop by this summer to see what's new. Refinished front doors will welcome guests to the Victorian house museum where several rooms have had ceiling and wall cracks repaired and repainted. The Libertyville-Mundelein Historical Society took advantage of this opportunity to clean and rearrange for a refreshed view of its one-of-a-kind historical collection. You are bound to discover something new!

In addition to Victorian furnishings and displays of Libertyville history, *The Art of Ross Shellenberger* will be on display in the second-floor hallway this summer. Shellenberger, a long-time Libertyville High School art teacher who passed away in 2014, may be best known for his Libertyville scenes, but his life-time of work was much broader. This temporary exhibit will feature pieces from the collection as well as artwork and personal items on loan from the Shellenberger family.



Open house dates and times:
Sundays in June, July and
August from 2:00 p.m.–4:00 p.m.
June 2, 9, 16, 23, 30
July 7, 14, 21, 28
August 4, 11, 18, 25

Additional Open House Times
Saturday, June 8, 10:00 a.m.–12:00 p.m.
Saturday, June 15 12:00 p.m.–2:00 p.m.
Saturday, August 3, 2:00 p.m.–4:00 p.m.



Suggested Donation:
\$2.00 Adults
\$1.00 Seniors and Students

Lakeside Cemetery History

Lakeside Cemetery is a little-known treasure overlooking Butler Lake on the north side of Lake Street just a few blocks west of Milwaukee Ave. Only the oldest part of the cemetery can be seen from Lake Street. It is well worth a drive into the cemetery to trace the amazing history of Libertyville captured by the rows of family grave markers. Visit Clara A. Colby's grave (1878-1962) in the second section from Lake Street. Clara was the first woman to vote in Illinois under the new Illinois Law, July 5, 1913.

While many passersby assume the cemetery is operated by the Village of Libertyville, that has never been the case. The Lakeside Cemetery Association was organized as a non-profit in 1910 and still operates today as a 501(c)(13) non-profit corporation. The cemetery is managed by a local volunteer board that takes great care in maintaining and improving the property. The cemetery is still active and serving Libertyville and surrounding Lake County communities.

A Veterans' Memorial was created through private donations and dedicated on Memorial Day 1999. Each year the American Legion and local youth groups mark the Veteran's graves with flags the Saturday before Memorial Day. On Memorial Day, a solemn parade travels from Cook Park to the cemetery for an honor ceremony. The names of the deceased veterans Killed or Missing in Action are read during the ceremony to remember their dedication to our country.

The first settlers in Lake County arrived in the 1830's. Lakeside Cemetery was platted in 1843 with the first burial in 1844. At that time, Libertyville was known as Independence Grove and Butler Lake was called Independence Lake. There are many early Lake County settlers buried at Lakeside.

Lakeside Cemetery covers 15 acres. The newest section is in the northwest corner of the cemetery and gravesites were platted in 2018. The Veterans' Memorial is in the southeast corner of this section with flags flying to honor those from the community that were killed or lost in action.

To learn more, visit lakeside-cem.org or email at info@lakeside-cem.org. Family plots, gravesites, and urn sites are available.

It's SUMMER TIME

LIBERTYVILLE SPORTS COMPLEX & RECREATION DEPT.
To register go to www.libertyville.com/recreation or call **847-918-7275**. Refer to your Registration guide for details.

MAINSTREET LIBERTYVILLE sponsored events
MainStreet can be reached at **847-680-0336**
or go to www.mainstreetlibertyville.org.



Adler Park & Riverside Pools
Swim lessons @ Adler for kids
Season, family pool passes on sale
Special pricing for Libertyville residents



39th Annual Farmers' Market
Farm fresh fruits, flowers, breads, vegetables, pastries and more.
May 30 – October 17 in Cook Park
7:00 a.m. – 1:00 p.m.



Adler Summer Day Camp
Boys and Girls K-7th grade
9:00 a.m. – 3:00 p.m. or half-day camp
Sessions June 10–August 9



Out to Lunch
Great food and live bands,
Fridays June 21–August 16
11:00 a.m. – 2:00 p.m. in Cook Park



Teen Travelers Biking Camp
Adler Park
Ages 11-14, 9:00 a.m. – 3:00 p.m.
Weekly Sessions June 10–August 9



First Friday on MainStreet
Downtown business offer specials, music and more. 6:00 p.m. – 9:00 p.m.
First Friday every month



Sports Camps for Kids
Weekly camps for specific sports i.e. soccer, baseball, basketball, non-contact football, golf lessons plus camps with a mix of sports.



Car Fun on 21
Classic Cars and Music on Church St. and Cook Ave.
6:00 p.m. – 9:00 p.m.
June 19, July 17, August 21, September 18



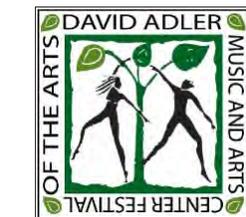
Libertyville Safety Town
Boys/Girls entering K-2nd grade
9:00 a.m. – 11:00 a.m. & 12:30 p.m. – 2:30 p.m.
June 10–21, June 24–July 6 & July 18–19



MainStreet Dessert Walk
Saturday, August 3, 12:00 p.m. – 3:00 p.m.
Downtown Libertyville



Free Village Band Concerts
Cook Park Rose Garden
Thursdays 7:30 p.m.
June 21, 28, July 12, 19, 26



38th Annual David Adler Festival of the Arts
Saturday, August 3-4, Cook Park 10:00 a.m. – 5:00 p.m.
Original artwork, live music, great food, and a youth art division.
An event by the David Adler Music & Arts Center



July 4th Celebration
Butler Lake Park
Village Band Concert: 7:30 p.m.
Fireworks approximately 9:30 p.m.

Charles Brown Reservoir Restoration and Pump Replacement Project

The Charles Brown Reservoir serves as the storm water outfall for the Highlands Subdivision area. In order to improve the current condition of the reservoir, construction on several improvements will begin during the fall of 2019 with an estimated completion of summer 2020. Improvements include removal of invasive vegetation and silt, forebays will be created to act as a buffer during flooding, maintenance free wetland plantings will be installed, and the existing inlet and outlet storm sewer lines will be repaired.

FEMA Community Rating System (CRS) & Flood Insurance

Last year the Engineering Division began a process through the Federal Emergency Management Agency (FEMA) in pursuit of the National Flood Insurance Program's (NFIP) Community Rating System (CRS). The CRS is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. Upon completion of a CRS application, a community is eligible to receive a rating that will result in a discount in flood insurance premium rates for residents with NFIP insurance policies. Each community receives a rating on a 1 to 9 scale (with one being the best score achievable), and the rating is then directly correlated to a certain percentage discount.

The Village of Libertyville has received a CRS Classification of 6. As a result, residents within the Village with NFIP flood insurance policies will receive a 20% discount on their insurance premiums if they are located within the FEMA designated Special Flood Hazard Area (SFHA), or a 10% discount if they are located outside of the SFHA. These discounted rates will be effective as of May 1, 2019, and as a result residents should notice the reductions whenever their policies are renewed after this date. The Village will be recognized as a CRS Community in the updated Flood Insurance Manual. As a result, insurance agencies should apply the discount for renewals after May 1st without any necessary action from policyholders. However, residents are advised to check with their insurance companies to confirm the savings. Libertyville is one of 21 communities in the State of Illinois with a CRS Class 6 rating.

A Flood Insurance Policy is available for all Libertyville residents due to the Village's participation in the NFIP. If you do not have flood insurance and are interested, you are encouraged to speak with your insurance agent to understand coverage options. Most homeowners' insurance policies do not cover damage from floods. It is strongly recommended that residents do not wait for a flood to purchase flood insurance, as there is a mandatory 30-day waiting period before the insurance goes into effect. For more information about the CRS program, please contact the Engineering Division at **847-918-2100**.

Building Permit Tip

Did you know that gravel counts as an impervious surface on your property?

Impervious surfaces contribute to storm water runoff and do not allow water to penetrate back into the ground. When performing calculations on impervious lot coverage for a project make sure to include gravel surfaces as well. Impervious surfaces can contribute to drainage challenges for you or your neighbors. For more information on building requirements visit the Village's website. You can also now apply for building permits online. To apply for a permit visit <https://bsaonline.com/?uid=400>.

Small Cell Wireless Infrastructure

On April 13, 2018 former Governor Rauner signed Senate Bill 1451 into law which regulates small wireless cell facilities (SWF) in Illinois. SWF's are mini cell sites that provide additional cellular coverage in a given area. As part of the legislation municipalities must allow SWF's per the State law. Cellular carriers are identifying areas where they would like to install SWF's on existing utility poles, streetlights and traffic signals. SWF's are typically seen as a box attached to a utility pole,



however some may be placed on an antenna which is extended beyond the height of the utility pole. The Village has begun receiving applications from some cellular carriers. As you begin to see SWF's installed around the Village please realize that the Village's ability to regulate the placement and installation of SWF's is restricted by the State of Illinois, and does not allow local rules/regulations.

Joint Road Resurfacing Program

The Village recently participated in a joint bid process with the Villages of Mundelein, Vernon Hills, and the Libertyville Township Highway Department in an effort to receive competitive pricing based upon an “economies of scale” from larger contract quantities.

This year Liberty Bell Lane, Liberty Bell Court, Fifth Avenue, USG Drive, Wexford Court and Warwick Lane will be resurfaced as part of the road resurfacing program. Work is anticipated to be completed during the summer of 2019.

Rockland Road Sewer Project

During the summer and fall of 2019, the water main from Seventh Avenue to the Des Plaines River will be installed under Rockland Road.

Initial daily lane closures will occur during this work and anticipated one-way traffic eastbound for the remainder of the construction season. Upon completion of the water main a new, larger storm sewer and sanitary sewer installation will occur. During construction, Rockland Road will be reduced to one lane for eastbound traffic only. Westbound traffic will be detoured using St. Mary's Road to IL Route 176 and Milwaukee Avenue (IL Route 21). The reconstruction and completion of the roadway pavement is anticipated to occur in 2020.

Fireworks Safety

Fireworks are often used to mark special events and holidays. However, fireworks must be used with caution and most are illegal for personal use.

One of the approved consumer fireworks most often encountered is the sparkler. Sparklers can be dangerous if not handled with extreme caution. The risks associated with sparklers include flying sparks as well as the temperature at which a sparkler burns. These seemingly safe fireworks can cause third degree burns and eye injuries if not handled properly. As with any dangerous item, adult supervision is advised, don't let children play with sparklers while unattended or without guidance.

In Illinois, the following fireworks are illegal: Bottle Rockets, Firecrackers of any size or type, Sky Rockets, Roman Candles, Chasers, and any ground items other than those identified as approved consumer fireworks.

Enjoy your summer celebrations and attend a professionally hosted fireworks show. Keep your summer safe and legal, follow all manufacturer's safety guidelines regarding consumer fireworks and don't use illegal fireworks.

11TH ANNUAL DOG DAYS OF SUMMER



Libertyville's Dog Days is back! The annual event will continue for the 11th year thanks to the cooperation of the Knights of Columbus. Mayor Terry Weppeler stated that “The Village of Libertyville will continue to present Dog Days annually. It's a great event for the Village, as it attracts many out-of-town visitors as well as providing entertainment for our residents. It allows visitors to discover our beautiful town, some of them for the first time. In addition, there is no cost to the Village, as sponsors and vendors cover all the costs.”

Libertyville is the site for the “Dock Dogs Regional Finals”. You can watch as 100 nationally ranked jumping dogs run down a 40 foot dock and jump into a 27,000 gallon pool of water for longest distance in the middle of Church Street. In addition to the three-day non-stop dog jumping competition, doggie-oriented events and 30+ vendors will be in Cook Park throughout the weekend. See the Lake County K-9 demo, or take part in the St. Lawrence Church's Sunday morning Multi-Faith Pet Blessing Ceremony and much more. So head to Cook Park in Downtown Libertyville Friday-Sunday, July 12-14th. Dog Days of Summer is presented by The Village of Libertyville, and hosted this year by our local Knights of Columbus who will use any monies after expenses to donate to local organizations that help those in need, for example, helping to provide funds for local pet food banks. This years event is sponsored by Care Animal Hospital, Byline Bank, GreenTree Animal Hospital, Libertyville Auto City Subaru, North Shore Gas, Pampered Pupz, The Pet Factory, and Veterinary Specialty Center.

For information e-mail dbi960@mac.com or call **847-961-0206**.





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Village of Libertyville
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Libertyville, Illinois 60048

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Mayor
Terry Weppler

Trustees
Donna Johnson
Richard Moras
Jay Justice
Scott Adams
Peter Garrity
Patrick Carey

Village Clerk
Sally Kowal

Village Administrator
Kelly Amidei

website: libertyville.com

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The **Village Views** is published by the Village of Libertyville, Illinois, in the belief that interested and informed citizens are the safeguard for good government.

Explore Libertyville



SWIMMING POOL SEASON PASSES

Adler Pool 1500 North Milwaukee Avenue

Riverside Pool 870 Country Club Drive

ORDER YOUR SEASON PASSES NOW

- Individual Passes
- Family Passes

Special pricing for Libertyville residents.

Adler Pool can host group outings and birthday parties.

Buy your season passes at Adler Pool office, the Libertyville Sports Complex Fitness Center, on-line at www.LibertyvilleSportsComplex.com/registration or call **(847) 918-7275**.

A Message from the Mayor

Most of you are aware that the Village of Libertyville must decide quickly whether we will allow the sale of recreational marijuana in the Village of Libertyville. This issue is currently being heard by the Plan Commission and will soon be before the Village Board. What's important to understand is that this is a zoning issue. At this point in time a recreational marijuana store could be opened in any of our commercial zoning districts. The issue before the Plan Commission is whether to change the current code to either prevent the sale throughout the Village or limit the commercial zones for a recreational marijuana store.

The State of Illinois has already decided the moral issue of whether or not marijuana should be allowed in Libertyville. Our decision is limited to whether or not it can be sold in the community. The State has waved the enticement of additional tax money in front of communities through the sale of marijuana. However, estimates of the amount of money that will actually be made through the sale vary from very little to \$1 million annually. The higher estimates come from the marijuana distributors.

There is no doubt that Libertyville needs the additional tax revenue. A recently completed capital needs study indicates we need an additional \$2 million annually to maintain our roads, buildings and equipment. The question is whether or not we should attempt to receive some of this income from the sale of a drug currently illegal under federal law.

There are a number of arguments both for and against the sale of marijuana in Libertyville. We will be voting on this issue in the next two months and I'd appreciate your input. If you'd like to express your opinion please let me know. You can email me at tweppler@libertyville.com.

A Message from the Mayor

continued on page 2



Fall Leaf Clean-up

As fall approaches, so does yard clean-up. The Village does not provide yard waste pick-up. Residents can contract with the Village's waste hauler, Groot, to obtain yard waste collection services. Leaves should not be raked or placed within the street or parkway. This can cause clogging within the Village's storm sewers and can be a potential hazard for vehicles parked within the street. Yard waste collection services are available through Groot annually from April 1 through November 30. Service options include the following:

- **Landscape Waste Stickers**-Stickers may be purchased and placed on a 33-gallon can or biodegradable yard waste bag.
- **Subscription Service**- Residents who generate higher volumes of yard waste may elect to pay an annual fee for the collection of landscape waste season. Up to 6 cans or bags are permitted per week from April 1 through November 30.
- **Abbreviated Seasonal Subscription Service**-Between October 15 and November 30, up to 12 biodegradable bags or cans not exceeding 33-gallons may be collected weekly.

Residents interested in yard waste subscription services should contact Groot at **(877) 404-7668** to register for services.



Downtown Metra Station Open

The downtown Metra Station ribbon cutting ceremony was officially held on July 26. The new station includes new restrooms and upgrades to the existing commuter waiting room, main entrance and ticket agent room. Stop by and visit the beautiful new station!

Waste and Recycling Collection Reminder

The Village's refuse hauler, Groot, provides waste and recycling services to residential properties within the community. Pick-up days are once a week, on either Monday, Tuesday, Thursday or Friday. All waste and recycling containers must be placed curbside, not in the street, on the day scheduled for collection or no earlier than 6:00 p.m. prior to the scheduled pick-up day. Containers that are placed in the street make it difficult for Groot on collection day and are also a traffic safety hazard. Please remember to place your container at the curb!

A Message from the Mayor
 continued from previous page

I will share all emails with the Village Board. Resident input is important on any decisions we make and we'd appreciate hearing from you.



Mayor Terry Weppeler

The UPS Store Libertyville

- UPS & DHL Shipping
- Notary Services
- Fax Services
- Freight Services
- Document Shredding
- AT&T & Comcast Returns
- Printing, Copying & Finishing Services
- Mailbox Services
- Packaging Service & Supplies
- USPS Services & Postage

872 S. Milwaukee Ave.
Libertyville, IL 60048

Phone: (847) 918-0181
 Fax: (847) 918-0184
store1319@theupsstore.com



**MEETINGS • PARTIES
SPECIAL EVENTS**

LIBERTYVILLE CIVIC CENTER

"The Gathering Place" Room rentals available for all types of gatherings.
libciviccenter.org • 847-918-8880

LIBERTYVILLE
FALL 2019 EDITION

DINING GUIDE

GET YOUR FORKS OUT



86

RESTAURANTS

Libertyville
spirit of independence

LIBERTYVILLE DINING . COM

Libertyville residents and guests have so many excellent restaurants to choose from, and we're bringing that information to your fingertips. Enclosed in this newsletter is a pull-out copy of the Libertyville Dining Guide. And now you can access our *NEW dining website* to search an interactive directory, or give fate a chance with restaurant roulette! Check it out at LibertyvilleDining.com.












Shop local and support our schools and community












11

Dealerships

18

Brands

1

Mile of Cars

Shop local & keep your tax dollars in Libertyville!

Snow & Ice Removal

The Village begins plowing streets when snow is more than one inch deep and when freezing temperatures indicate there will be no melting. Many state and county roads in and around the Village are cleared by the respective agency. However, the Village does plow and salt some state and county roads, including Milwaukee Avenue from Adler Drive to Hollister Drive, and Park Avenue from Butterfield Road to the Des Plaines River. Streets with high traffic volume, emergency routes, and bus routes on school days receive priority for plowing over residential, non-primary routes that typically do not have heavy traffic volume. Further information on snow & ice removal operations can be found at libertyville.com/snowplowing.

There are several ways you can help keep the Village safe during the winter:

- **Clear your sidewalk.** This is especially helpful for children trying to get to school safely.
- **Do not stack the snow at corners of intersections.**
- **Assist senior citizens who live nearby by shoveling their sidewalks.**
- **When clearing your driveway, shovel or blow the snow onto the parkway to the right side of your driveway as you face the street.**
- **Park vehicles off the street.** On-street parking is prohibited between 10:00 p.m. and 6:00 a.m. during snow events.
- **Watch for snow & ice removal vehicles.**
- **Make sure your mailbox is 12 inches from the curb and the post is secure.**
- **Adopt a fire hydrant and keep it clear of snow.** It's there to protect you.

Save~the~Date for Upcoming Events

MSL Farmer's Market

- Thursday's 7:00 a.m.-1:00 p.m.
until October 17

MSL First Friday

- November 1
- December 6

Entertainment and Specials at Participating Downtown Retailers

Ladies Day

- October 18, 10:00 a.m.-4:00 p.m.

October 31 Trick or Treat!

- On Main Street: 11:00 a.m.-2:00 p.m.
- Village Trick or Treating Hours are
4:00 p.m.- 8:00 p.m.

MSL Chef Fest at Dunn Museum

- November 9, 7:00 p.m.-10:00 p.m.

Small Business Saturday

- November 30

MSL Dicken's of a Holiday and Victorian Tea

- December 7 and
- December 14,
10:00 a.m.-3:00 p.m.

Offering a play based, faith based preschool curriculum - DCFS Licensed - Military Discount



CrossWays Preschool

- Age 2 to 5 years
- Half Day Preschool Program
- Half Day Summer Camp
- Enrichment Classes

(847) 367-4367
cpreschool.org
crossways@holycrosschurch.org



Celebration! Childcare

- Age 6 weeks to 12 years
- Full Day Preschool Program
- Full Day Summer Camp
- After School Services

(847) 367-6208
cchildcare.org
celebration@holycrosschurch.org

at Holy Cross Lutheran Church
29700 N St. Mary's Rd Libertyville, IL 60048

Where Love and Learning Meet

Autumn events

Join Our LSC Fitness Center

Stay in shape, get in shape and join our Fitness Center at the Libertyville Sports Complex. Annual Individual Memberships are only \$365 and this includes free fitness and exercise classes! There are special Family and Senior (60+) rates, too. Visit the LSC Fitness Center or call **(847) 367-1504** for membership information.

Adult Sports Leagues

The Libertyville Recreation Department has several sports leagues for Adults throughout the year, including the Fall and Winter months. Indoor Soccer Leagues for Men 18+, Men 30+ and Women 30+ are available. Also there are Basketball Leagues for Men 18+, Men 30+ and Women 18+. Call **(847) 367-7054** or visit LibertyvilleSportsComplex.com for more info.

Libertyville Youth Basketball Leagues

There is still time to sign up your son or daughter to play in our winter House League basketball program for kids in grades K-2, and grades 3-8. Games are played on Saturdays starting in January and the season runs through mid-March. Register on-line at LibertyvilleSportsComplex.com.

Halloween 2019 Fest

**Wednesday,
October 30**

Get your Halloween costume and come inside the Libertyville Sports Complex for our 10th Annual Halloween Fest for Kids on Wednesday, October 30 from 5:30 p.m.-7:30 p.m. Family friendly fun geared for kids ages 10 and under. Tickets on sale now. Kids advance purchase only \$7, day of event kids tickets are \$10. Parents and grandparents are free. To order tickets call **(847) 918-7275** or register on-line at LibertyvilleSportsComplex.com.

Smoke Detectors and Carbon Monoxide Detectors, What you need to know!

With the fall time change, remember to change the batteries in your smoke detectors and carbon monoxide detectors. This is an easy way to remember this task and to keep your detectors in working order, however this is not the only attention you need to give to these life saving devices. The following are important facts regarding the use and installation of smoke and carbon monoxide detectors in your home.

Smoke Detectors:

- Make sure smoke detectors are installed in every bedroom, outside sleeping areas, and at least one on every floor of your home.
- Test your smoke detector every month.
- Have a plan when your smoke detector sounds to get out, account for everyone and call 911.
- Replace smoke detectors every 10 years. Many new smoke detectors have a 10 year sealed battery, make sure you test your detector to make sure it is working; if it is not replace it.

Carbon Monoxide Detectors:

- Make sure carbon monoxide detectors are installed outside each sleeping area and have at least one on every floor level. The law requires a carbon monoxide detector to be installed within 15 feet of every room used for sleeping purposes.
- Test your carbon monoxide detector every month.
- Contact the Fire Department when your carbon monoxide detector activates, move to fresh air outside and make sure everyone in the home is accounted for.
- Replace carbon monoxide detectors every 10 years.

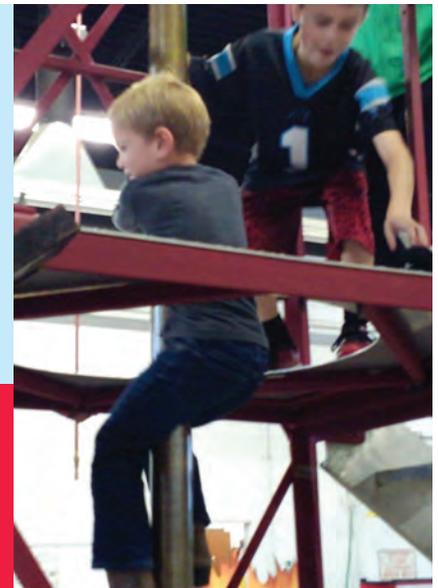
When purchasing smoke detectors or carbon monoxide detectors make sure they have been rated by an approved agency such as Underwriters Laboratory (UL). Homes built within the last 20 years will have hardwired smoke detectors located on each floor of the home. When replacing these smoke detectors make sure you use a licensed electrician to assure the work is performed according to applicable codes. For more information on smoke detectors and carbon monoxide detectors contact the Libertyville Fire Department at (847) 362-5664 or go to NFPA.org.

**Trick or Treat on MainStreet
Thursday, October 31
11:00 a.m.–2:00 p.m.
Downtown Libertyville**



LOOK. LISTEN. LEARN.

The Libertyville Fire Department strongly urges families to participate in Fire Prevention Week and “Plan 2 Ways Out!” The entire family can tour the Station, watch demonstrations and enjoy interactive activities. Kids can climb inside a fire truck, spray a real hose, and take the Kiddie Combat Challenge and learn how to escape a house fire. It’s fun for the whole family!



Be aware. Fire can happen anywhere™
FIRE PREVENTION WEEK: OCTOBER 6-12, 2019

- WHO:** Everyone in the Family
- WHERE:** LIBERTYVILLE’S MAIN FIRE STATION at 1551 North Milwaukee Ave.
- WHEN:** Saturday, October 12, 2019 from 1:00p.m.-4:00p.m.
- WHY:** Protect Your Family from Fire

Fire Safety

It’s getting to be that time of year again where the nights are getting cooler, the leaves on the trees will be changing color, and people will begin to use their fireplaces to help heat their homes. Fireplaces are fun and safe, but if not used or maintained properly, they could cause a fire. By following some basic safety tips, you can enjoy your fireplace all season long.

Make sure you have all the proper equipment in place. This should include a fireplace screen, fireplace tools such as a poker, shovel, tongs and possibly heat resistant gloves. There should be a metal bucket or container nearby for ash removal.

To enjoy an evening by the fire, follow these simple operating instructions: Open the chimney damper all the way. Place the fire starter or kindling under the grate and place two to three dry logs on the grate. After lighting the fire, make sure that the smoke rises up the chimney flue. If you are using a natural gas log starter, make sure you only leave it on to start the fire then shut of the gas.

Finally, here are some basic safety tips for all fireplace users: At the beginning of each year, make sure to have your chimney



cleaned and inspected by a professional chimney sweep. When burning wood, it should be dry seasoned wood. Burning wet, unseasoned wood will cause more creosote build-up in the chimney which could increase your chance for a chimney fire. Never use flammable liquids or an excessive amount of paper to start a fire in your fireplace. When using a manufactured log, burn only one log at a time and never add regular firewood to the fire. These logs burn as hot as eight pieces of normal wood adding anything to them will increase the chance of a chimney fire. Never close a damper with hot ashes in the fireplace. This can cause a heat buildup which can cause a fire to flare up. Hot coals can be located in ashes for up to 72 hours after a fire. All of the coals and ashes should be cool prior to removing them. Once you remove them, place them in a sealed metal container, never dispose of them in a trash can.

Please feel free to contact the Libertyville Fire Department if you have any questions (847-362-5664).

New Businesses to SHOP *Dine* EXPLORE ...



Libertyville welcomed the following new and relocated (*) retail and personal service businesses in the last year. These and nearly 1,000 other establishments are searchable by name or category in the Libertyville Business Directory at Libertyville.com/BusinessDirectory or select the homepage Directory icon.

Able Salon & Gallery

705 N Milwaukee Ave, 847-989-7685
Salon & Art

Allstate - Future Wise Agency

1117 S Milwaukee Ave, Ste #B1
847-257-1922
Insurance Agent

Anna's Hair Studio

1008 N Milwaukee Ave, 847-918-0112
*Salon**

Arcitax Services

1410 N Milwaukee Ave, 847-473-3256
Tax & Bookkeeping Services

Baird & Warner

200 N Milwaukee Ave, 847-367-1855
*Real Estate Agency**

Birdy's Coffee House

725 N Milwaukee Ave, 847-504-2942
Café/Restaurant

Body and Brain

860 S Milwaukee Ave, 847-362-2724
Yoga Studio

Burnsies Uptown

545 N Milwaukee Ave, 847-247-8700
Restaurant

Byline Bank

111 W Church St, 224-600-5540
Financial Services

Cabo Tan

402 Peterson Rd, 847-367-7500
Tanning Salon

Carepartners Pharmacy

326 Peterson Rd, 224- 294-1199
Pharmacy

Chevelure Salon

1117 S Milwaukee Ave, Suite #D2,
224-206-7161
Hair Salon

Core Martial Arts

342 Peterson Rd, 224-612-3665
*Fitness Classes**

Chrissoula's Restaurant

602 N Milwaukee Ave, 847-549-3046
Restaurant

Cross-Up Chiropractic

1025 W Park Ave, 847-984-2702
Chiropractor

Curry Leaf

271 Peterson Rd, 847-281-7595
Restaurant

Edie Boutique

514 N Milwaukee Ave, 224-504-2998
Boutique

Friess Financial

940 N Milwaukee Ave, Suite A
847-281-5125
Tax & Accounting Services

FW Family Law Group

1590 S Milwaukee Ave, #230,
847-549-3075
Law Firm

Johnston, Tomei, Lenozycski & Goldberg LLC

350 N Milwaukee Ave #202,
847-549-0600
*Legal Services**

Keller Williams North Shore West

350 N Milwaukee Ave #201,
847-383-6600
*Real Estate Agency**

Kinesi LLC

1580 S Milwaukee Ave, #205
847-345-2246
Physical Therapy

Kristi Kohut Studio

346 N Milwaukee Ave, (877) 765-8395
Art Studio & Sales

Law Offices of Thaddeus M. Bond Jr. & Assoc

708 Florsheim Dr 100, 847-599-9101
Law Firm

Ombre Nail Spa

880 S Milwaukee Ave, 224-513-5488
Nail Salon

Phenix Salon Suites

- 1400 S Milwaukee Ave, 847-549-3196:
- **Everything Under the Sun**, Suite #128, 224-213-6914
 - **Lauren Ryan**, Suite #110, 224-456-7147
 - **Mary's NuHair Revolution**, Suite #136, 847-894-7653
 - **Netty's Nails**, Suite #132, 224-276-1514
 - **Nikki Raye's Studio**, Suite #101, 847-800-8918
 - **Ofelia K Salon**, Suite #106, 224-600-3699
 - **Polished Therapy**, Suite #124, 224-730-0179
 - **Salon Silk Chicago**, Suite #114, 847-878-4874

Premier Personal Training

1354 S Milwaukee Ave, 847-521-6505
Fitness Training

Prism Planning Partners

321 S Milwaukee Ave, 847-250-9870
Financial Planning

Protect Realty

350 N Milwaukee Ave, Ste #201,
847-924-5864
Real Estate Agency

Retire Up

600 N US Hwy45, Ste #W120,
800-935-6880
Financial Planning

St Vincent de Paul Thrift Store

168 Peterson Rd, 847-367-4700
*Clothing & Home Goods**

Sayre Counseling Services

1580 S Milwaukee Ave #202, 847-309-7316
Counseling

Shabahang Royal Carpet

528 N Milwaukee Ave, 224-206-7484
Carpet Sales/Service

State Rep. Mary Edly-Allen

1585 N Milwaukee Ave #7, 224-206-7647
Legislative Office

Tech Repairs & Electronics

117 E Park Ave, 224-221-8170
Technology Services

The Healthy Gene

777 N Milwaukee Ave, 910-859-0216
Fitness Training

The Runner's Edge

406 N Milwaukee Ave, 847-853-8531
*Athletic Shoes**

Tide Dry Cleaners

1432 S Milwaukee Ave, 847-549-3195
Dry Cleaners

Viet Taste

1183 S Milwaukee Ave, 847-984-2776
Restaurant

X Golf

1177 S Milwaukee Ave, 224-504-2940
Golf Simulation

Zachary Chase Hair & Spa

333 Peterson Rd #270, 847-367-7866
Salon





also awarded an IEPA grant towards this project. Construction is anticipated to begin in October 2019.

Updated Stormwater Detention Requirements

The Village has revised its local amendment to the Lake County Watershed Development Ordinance (WDO): Appendix P - Stormwater Management Regulations. These regulations establish requirements and guidance for the provision of stormwater management for smaller developments that would otherwise fall beneath the detention thresholds of the WDO. The Appendix P regulations are applied to developments that result in a net increase of impervious surface area of 400 square feet or greater up to 0.5-acre (21,780 square feet) as defined in the WDO. Further reading can be found at libertyville.com/919/Appendix-P.

East Rockland Road Reconstruction

The initial phase of construction commenced in July 2019 with utility work related to the replacement of an existing watermain and the installation of a storm sewer, which ranges in size from 30 inches to 84 inches, that was identified as part of the Village's ongoing Stormwater Management Master Plan. During the Summer of 2020, Rockland Road between Milwaukee Avenue and the Rockland Road Bridge will be reconstructed including new curb & gutter and sidewalks. Throughout the construction in 2019 and 2020, the traffic flow will be limited to one lane eastbound only. Project updates can be found at rockland-road-recon.com.

Charles Brown Reservoir Restoration and Pump Replacement

The Charles Brown Reservoir, which serves as the outfall for the Highlands Subdivision that consists of Ames Street, Burdick Street, Carter Street, Dawes Street, Drake Street, Crane Boulevard and Rockland Road drains to the Seavey Ditch by a pump station. The reservoir provides approximately 74 acre-feet of detention, which will be increased to 84 acre-feet following the completion of the project. The improvements include retrofitting a wetland area, construction of three sediment forebays, mass site grading, storm sewer improvements, and all necessary restoration. The Village was

Village Board Adopts Capital Improvement Plan

On August 27, 2019 the Village Board adopted a comprehensive Capital Improvement Plan (CIP) for the next ten fiscal years. This is a strategic document that will assist the Village in planning for the future, as well as serving as part of any justification for grants or referenda. The plan identified \$81,815,785 in capital requirements over the next five fiscal years. The remaining five years identify approximately \$79.6 million in capital requirements. Adoption of the plan is not an appropriation of funds rather a financial plan which will help to guide the budget process annually. To view the CIP visit libertyville.com/73/Financial-Information.





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Village of Libertyville
118 West Cook Avenue
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(847) 362-2430
email: vol@libertyville.com

Mayor
Terry Weppler

Trustees
Donna Johnson
Richard Moras
Jay Justice
Scott Adams
Peter Garrity
Patrick Carey

Village Clerk
Sally Kowal

Village Administrator
Kelly Amidei

website: libertyville.com

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The **Village Views** is published by the Village of Libertyville, Illinois, in the belief that interested and informed citizens are the safeguard for good government.

Explore Libertyville

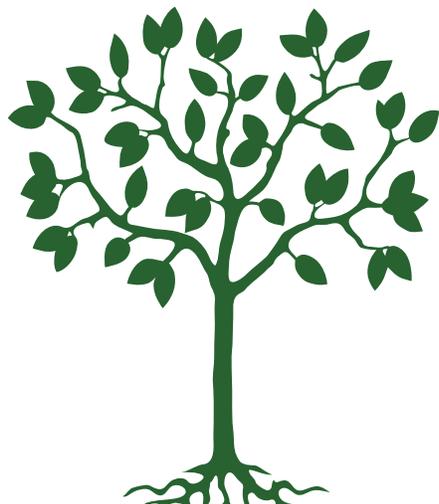


Village to Implement More Advanced Electronic Utility Bill Pay Service



The Village will be launching a new online billing and payment service through Invoice Cloud, offering customers greater flexibility to view and pay their utility bills online. Additionally, customers will have more choices to pay their bill, including by text. The new, easy-to-use payment portal provides customers with quick access to their account to view bills, check their balance, make payments, and enroll in paperless billing. Features include an “at a glance” dashboard, securely storing payment information (if requested) and more automatic payment options including: choosing a specific day for payments to process, email reminders, and linking multiple accounts. For customers that choose not to create an account, they can view their current bill and make a one-time payment without registering.

There are no fees for residents to utilize any of these great new payment features. So mark your calendar... soon, you'll be able to put away your checkbook and pay electronically! Check your utility bills in late October for more details.



Adopt-a-Park

The Village of Libertyville has expanded its adopt-a-highway program to include the Village's neighborhood parks. The Adopt-a-Park program encourages community groups, or neighborhood groups to adopt-a-park and provide organized clean-ups in Spring and Fall. The program is first-come, first-served and the application for the program can be found on the Village's website at libertyville.com/park.



APPENDIX P

VILLAGE OF LIBERTYVILLE STORMWATER MANAGEMENT REGULATIONS

Effective: August 14, 2019

A. PURPOSE AND GOAL

The purpose of all new development/redevelopment and teardown stormwater management regulations is to accommodate the increase in stormwater runoff volume that may result from a redeveloped property.

The goal of these stormwater management regulations is to demonstrate the detail and depth of information required by the Department of Public Works/Engineering Division to determine that all goals are understood and met by those desiring to make alterations.

The Village of Libertyville does not desire to prescribe how an owner/developer should design their modifications to meet Village Ordinances. Examples of Best Management Practices (BMPs) utilized to reduce run-off volume and rate may include storm vaults, cisterns, oversized piping for detention, rain gardens and natural landscaping, bio-retention, infiltration trenches, rain barrels, porous pavement and underground storage and rainwater harvesting systems.

B. ISSUE

The Village of Libertyville previously adopted its own Appendix P amendments to the Watershed Development Ordinance (WDO) in 2015, which applied stormwater management regulations to developments that would otherwise not require storage volumes to be provided due to the project scope and impacts. While the Village believes that the adoption of Appendix P has benefited the community to accommodate redevelopments while accounting for associated stormwater impacts, the Village continues to reassess all standards and regulations for the benefit of the community. The modifications made within this updated version of Appendix P are a result of experiences since the initial adoption, as well as the accommodation of increased rainfall totals experienced in the area.

C. FINDINGS

1. "All new development/redevelopment and teardown projects disturbing greater than 5,000 square feet must comply with the complete WDO requirements, as amended by the Village Board of Trustees. Projects which result in a net increase in impervious surface area **exceeding 400 square feet**, regardless of the area of land disturbance, must meet the **Appendix P** Stormwater Management Regulations, whereby the threshold for flow control in the WDO shall be reduced from 0.5 acre to 400 square feet of net new impervious surface as a threshold for the stormwater storage requirements. New or increased impervious surface area is defined by comparison to the existing conditions as of the original effective date of these local regulations (July 28, 2015).
2. The designated areas depicted on **Exhibit 1** (see attached map) shall not be subject to the Appendix P regulations, as these areas have been accommodated by the provision of subdivision stormwater management systems which account for impervious surface area totals allowed under the Zoning Ordinance.
3. "Existing conditions" are to be documented by a Plat of Survey at a specified scale. In the case of demolition of structures on properties that may not be redeveloped immediately, 'banking' of the existing impervious surface area will be allowed for up to ten (10) years with proper documentation.
4. "Development" shall mean the erection or construction of any building, structure, concrete, asphalt, decking, gravel, crushed rock, natural stone, other pavers or brick patios made with sand or concrete or other impervious surface that result in an increase in storm water runoff. "Development" shall also mean the erection or construction of any addition to existing buildings and on sites where an existing building is replaced with a new building.
5. Where a proposed improvement, new development/redevelopment or teardown creates 400 square feet or greater of net new or increased impervious area, the developer shall provide storm water storage on-site to mitigate the impact of development by the provision of an approved Best Management Practice (BMP).

6. The stormwater flow control/detention design requirement shall comply with these Appendix P Stormwater Management Regulations.
7. Porous pavements, permeable pavers and modular grid pavement are semi-pervious surfaces and are counted toward each zone's maximum impervious surface limit; however, these shall be counted at only 50% of the total area installed with regards to the stormwater management requirements. Perforated underdrains with an approved outlet connection to the Village's storm sewer system, or an alternative outlet approved by the Village Engineer, must be provided beneath the system in order to receive this 50% credit. The design submittal must include a standard detail and maintenance plan for the system. Upon approval of the submittal documents, the Village will provide an acknowledgment form for the maintenance responsibilities to be executed by the homeowner and returned to the Village prior to permit issuance.
8. Open-grid decks are also counted toward each zone's maximum impervious surface limit; however, these shall be counted at only 50% of the total area installed with regards to the stormwater management requirements if the area beneath the deck is to remain pervious. To receive this credit, the plans must specify an "open-grid deck over pervious surface".
9. Sub-surface stone can be utilized for stormwater storage at 33% porosity, subject to the provision of a proper gradation of stone (CA-7 or approved equivalent) and perforated underdrain system with an outlet connection to the Village public storm sewer system or an alternative outlet location approved by the Village Engineer. The storage volume shall only be counted at or above the invert elevation of the associated underdrain system.
10. Restrictor-sizing calculations shall be provided for all developments regulated by the Appendix P requirements for an allowable release rate of 0.15 cfs/acre. **The minimum allowable restrictor diameter shall be two (2) inches.**
11. A public storm sewer connection must be provided from all detention/retention systems subject to these Appendix P requirements, unless it is identified that a direct connection is not feasible or practical, as determined by the Village Engineer. The design submittal shall provide sufficient information for making such determination.
12. Should a connection to the storm sewer system not be feasible, the Village will accept rain gardens as a suitable means for stormwater management. All rain gardens must accommodate the required volume of storage above ground, have a minimum depth of six (6) inches, and a proper typical section and planting list must be included on the proposed plan by the design engineer. The applicant shall also be required to provide either an 'as-built planting plan' or a list of the installed plants from the supplier and/or landscaper.
13. For developments that result in a net increase in impervious area between 400 square feet and 4,999 square feet, the required stormwater detention volume shall be in accordance with the values shown in Table P-1.
14. For developments resulting in an increase of 5,000 square feet or greater, the required detention storage shall be calculated from Worksheet P-2 or by methods as outlined in the current WDO, as approved by the Village Engineer.

ADDITIONAL DESIGN CONSIDERATIONS

1. All projects that fall subject to the Appendix P regulations shall require a Site Improvement Plan to be prepared by an Illinois licensed Professional Engineer, along with a completed Project Data Worksheet and Project Checklist (see attached).
2. All plans for projects subject to the Appendix P regulations shall include the following drainage statement: *"To the best of my knowledge and belief, reasonable provisions have been made for the collection and discharge of*

surface waters in accordance with accepted engineering practices so as to reduce the likelihood of damage to the adjoining property due to the construction of this development.”

3. Overflow routes shall be provided on the plans with consideration to existing drainage patterns and the protection of structures.
4. Window wells shall be sealed at the foundation to prevent water infiltration, and shall be constructed to a minimum height of 6" above adjacent grade. In addition, all window wells shall be covered.
5. All roof downspouts shall discharge on grade in the front, rear, or corner side yard direction as defined by the Libertyville Zoning Code with a maximum extension of 5-feet from the structure and no closer than 5-feet from any property line. Any modifications to these requirements shall be approved by the Village Engineer.
6. All sump pumps shall be directly connected to the stormwater management system or directly to a Village storm sewer; where possible. Each property shall have a single storm service to the public storm system (public storm sewer if available or roadside swale if appropriate), unless a single service is not feasible or practical as determined by the Village Engineer.
7. Soil erosion and sediment control measures shall be provided in accordance with the WDO standards.
8. Outlet Control Structures shall be designed with consideration to future access for maintenance and minimizing risks of potential clogging within the restrictor orifice.
9. Should it be determined that a public storm sewer does not exist along the frontage of the subject property, and that a connection to the public storm sewer system is necessary to accommodate a proper stormwater management system for the site, the Village reserves the right to require an extension of the storm sewer system to the subject property as part of the improvements.
10. All projects that fall subject to the Appendix P regulations shall require a Restrictive Covenant to be recorded over the stormwater management system. Upon approval of the design plans, Village Staff will provide a Restrictive Covenant and Acknowledgment form which will need to be executed by the property owner and recorded with the Lake County Recorder of Deeds. A copy of the recorded document must be provided to the Village prior to permit issuance.
11. As-built drawings, signed and sealed by an Illinois licensed Professional Engineer or Land Surveyor, are required for all developments regulated by the Appendix P requirements. The As-Built drawings must include calculations for the constructed impervious surfaces and detention volume. A .PDF copy of the final as-built drawings must be emailed to engineering@libertyville.com upon Village approval of the drawings and prior to close-out of the permit.

D. APPROVAL WITHIN 'SPECIAL DRAINAGE AREAS' (SEE EXHIBIT 2):

In development/redevelopment or teardown projects within the Special Drainage Areas, as depicted on Exhibit 2, the following shall be required:

1. Building top of foundation shall be one (1) foot minimum above the studied high water elevation.
2. The lowest adjacent grades shall be six inches (6 inches) minimum above the studied high water elevation. If it is determined that these elevations are not feasible or practical, the submittal documents shall provide sufficient information and a narrative for making such determination for approval by the Village Engineer.
3. Compensatory storage (1:1) must be provided for any volume lost below the high water elevation.

Table P-1	
Net Increase in Impervious Surface Area	Storage Volume Required (cubic-feet)
< 400 ft ² *	N/A
400 ft ² - 499 ft ²	124
500 ft ² - 599 ft ²	155
600 ft ² - 699 ft ²	186
700 ft ² - 799 ft ²	217
800 ft ² - 899 ft ²	248
900 ft ² - 999 ft ²	279
1,000 ft ² - 1,099 ft ²	310
1,100 ft ² - 1,199 ft ²	341
1,200 ft ² - 1,299 ft ²	372
1,300 ft ² - 1,399 ft ²	403
1,400 ft ² - 1,499 ft ²	433
1,500 ft ² - 1,599 ft ²	465
1,600 ft ² - 1,699 ft ²	496
1,700 ft ² - 1,799 ft ²	527
1,800 ft ² - 1,899 ft ²	558
1,900 ft ² - 1,999 ft ²	583
2,000 ft ² - 2,249 ft ²	620
2,250 ft ² - 2,499 ft ²	697
2,500 ft ² - 2,749 ft ²	774
2,750 ft ² - 2,999 ft ²	892
3,000 ft ² - 3,499 ft ²	929
3,500 ft ² - 3,999 ft ²	1,084
4,000 ft ² - 4,499 ft ²	1,239
4,500 ft ² - 4,999 ft ²	1,394
5,000 ft ² or more	To be calculated

* 400 square feet is a single life-time credit for each property and is effective for proposals submitted for permit on or after August 14, 2019.