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112 ALGONQUIN ROAD  
BARRINGTON HILLS, ILLINOIS 60010-5199  
[www.barringtonhills-il.gov](http://www.barringtonhills-il.gov)

TELEPHONE  
(847) 551-3000

FACSIMILE  
(847) 551-3050

May 20, 2014

Illinois Environmental Protection Agency  
Bureau of Water  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

Re: NPDES Phase II – Year Eleven Annual Report  
Village of Barrington Hills MS4

To Whom it May Concern:

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

If you should have any questions or require additional information, please call our Village Engineer, Mr. Dan Strahan, P.E., at 847-855-1100.

Sincerely,

Village of Barrington Hills

Robert Kosin  
Village Administrator

Attachments

cc: Dan Strahan, Gewalt Hamilton Associates, Inc.



# 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, 2013 To March, 2014

Permit No. ILR40

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

Name: Village of Barrington Hills Mailing Address 1: 112 Algonquin Road  
Mailing Address 2: \_\_\_\_\_ County: Cook  
City: Barrington Hills State: IL Zip: 60010 Telephone: (847) 551-3000  
Contact Person: Robert Kosin Email Address: rkosin@barringtonhills-il.gov  
(Person responsible for Annual Report)

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

Lake County McHenry County  
Kane County Cook 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:

Robert Kosin

Printed Name:

May 21, 2014

Date:

Village Administrator

Title:

EMAIL COMPLETED FORM TO: [epa.ms4annualinsp@illinois.gov](mailto: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

# **MS4 Annual Facility Inspection Report**

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

**Permit Year 11: March 2013 to February 2014**

***Village of Barrington Hills***

**Contents**

**Part A. Changes to Best Management Practices ..... A-1**

**Part B. Status of Compliance with Permit Conditions .....B-1**

**Part C. Information and Data Collection Results ..... C-1**

**Part D. Summary of Year 12 Stormwater Activities .....D-1**

**Part E. Notice of Qualifying Local Program .....E-1**

    Part E1. Changes to Best Management Practices ..... E-2

    Part E2. Status of Compliance with Permit Conditions ..... E-3

    Part E3. Information and Data Collection Results ..... E-10

    Part E4. Summary of Year 12 Stormwater Activities..... E-13

    Part E5. Construction Projects Conducted During Year 11 ..... E-20

**Part F. Construction Projects Conducted During Year 11 ..... F-1**

## Part A. MS4 Changes to Best Management Practices, Year 11

Information regarding the status of all of the BMPs and measurable goals described in the Village of Barrington Hills' SWMP is provided in the following table.

**Note:** X indicates BMPs that were implemented in accordance with the MS4's SMPP  
✓ indicates BMPs that were changed during Year 11

Year 11	
MS4	
<b>A. Public Education and Outreach</b>	
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
	A.6 Other Public Education
<b>B. Public Participation/Involvement</b>	
	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
X	B.4 Public Hearing
	B.5 Volunteer Monitoring
	B.6 Program Coordination
	B.7 Other Public Involvement
<b>C. Illicit Discharge Detection and Elimination</b>	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
X	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 11	
MS4	
<b>D. Construction Site Runoff Control</b>	
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
<b>E. Post-Construction Runoff Control</b>	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>	
	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

No changes were made to the BMPs described in the MS4's SWMP during Year 11.



## **Part B. MS4 Status of Compliance with Permit Conditions, Year 11**

### **Stormwater Management Activities, Year 11**

The stormwater management activities that the Village performed during Year 11 and the status of each of the BMPs and measurable goals described in the Village's SWMP, as of the end of Year 11, are described below.

The Village's SWMP can be viewed at [http://www.barringtonhills-il.gov/plancomm\\_docs.html](http://www.barringtonhills-il.gov/plancomm_docs.html).

Tracking forms are used to track the implementation of the BMPs described in the Village's SWMP.

### **A. Public Education and Outreach**

The Village of Barrington Hills is committing to implementing the Public Education and Outreach component of its Storm Water Management Program. The Public Education and Outreach program includes the distribution of educational material to the community or conducting equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants to storm water runoff. The Village commits to implementation of BMPs as described below.

#### **BMP No. A.1: Distributed Paper Material**

The SMC develops and distributes a variety of materials related to storm water management in Lake County. A number of pamphlets and brochures related to BMPs and storm water management have been produced. The Village makes these publications, at a minimum, available on their website.

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. The Village of Barrington Hills provided informational material developed by SMC related to storm water, storm water management and a variety of storm water related materials on a "take away" rack at the Village Offices. In addition, the Village included educational information in the Village Newsletter and website.**

#### **BMP No. A.4: Community Event**

The Village of Barrington Hills provides a convenient location where the general public can dispose of common household pollutants. The Village holds household waste collection events which assist in collecting waste before it enters the storm sewer system. These events are publicized in the Village Newsletter and on the Village Website.

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. The Village works with Recycling Avenue to collect used cell phones, all cameras, cordless house phones, wireless DVD modems, DVD's, game consoles, ink cartridges, and laptop computers for recycling through an accredited recycling company. Many of these items contain compounds or materials that can be harmful to the environment if they are not properly disposed. Residents may drop off used small electronics to Village Hall during normal business hours, 8:30am to 5:00pm M-F, 8:30am to Noon Saturday.**

## **B. Public Participation/Involvement**

The Village of Barrington Hills is committing to implementing the Public Participation/Involvement component of its Storm Water Management Program. The Public Participation/Involvement program includes attending and publicizing watershed stakeholder meetings, presenting program information at a public meeting at least annually and publicizing IDDE reporting contact numbers. The Village of Barrington Hills commits to implementation of BMPs as described below.

### **BMP No. B.3: Stakeholder Meeting**

Stakeholder meetings are conducted throughout the county for ongoing planning and project implementation efforts. When stakeholder groups (such as watershed planning committees) include the jurisdictional area of the Village of Barrington Hills, the Village will publicize stakeholder meetings locally and participate by being represented at the stakeholder meetings.

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Representatives from the Village of Barrington Hills are members of both the Barrington Area Council of Governments and the McHenry County Council of Governments.**

### **BMP No. B.4: Public Hearing**

The Village of Barrington Hills will conduct a public meeting to present each annual report and on its proposed SWMP.

*Measurable Goal(s): Present summary of ongoing program implementation (annual report) at public meeting. Review and revise draft SWMP language related to this provision by end of Year 12.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. The Year 10 Annual Report was provided in a Board packet.**

### C. Illicit Discharge Detection and Elimination

The Village of Barrington Hills will implement program activities related to the Illicit Discharge Detection and Elimination (IDDE) minimum control. The requirements of an IDDE program include the following:

- Develop a storm sewer system map that shows the locations of all outfalls and the names and locations of all Water of the US (WOUS) that receive discharges from those outfalls.
- Prohibit non-storm water discharges into the storm sewer system and implement appropriate enforcement procedures and actions.
- Develop and implement a plan to detect and address illicit discharges into the storm sewer system.
- Educate public employees, businesses and general public of hazards associated with illegal discharges and improper disposal of waste.
- Identify the appropriate best management practices and measurable goals.

#### **BMP No. C.1: Storm Sewer Map Preparation**

The Village prepared an outfall map, under the original NOI, to allow for tracking of dry weather flow inspections and outfall maintenance.

*Measurable Goal(s): Maintain and update outfall map. Review and revise draft SWMP language related to this provision by end of Year 12.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. The Village of Barrington Hills has continued to modify and update the storm sewer atlas as further information is gathered to provide more detail and as new development occurs.**

#### **BMP No. C.2: Regulatory Control Program**

The Village of Barrington Hills adopted ordinance language to prohibit non-storm water discharges to the storm sewer or drainage system, under the original NOI. Additionally, the WDO includes provisions, which prohibit illegal dumping to the storm sewer or drainage system.

*Measurable Goal(s): Continue to enforce the ordinances. Review and revise draft SWMP language related to this provision by end of Year 12.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. The Village of Barrington Hills has current Local Ordinances in their Municipal Code regarding “Offenses Against Public Health and Safety” regarding litter; and Ordinances regarding private sewage disposal systems relating to “Exposure of Sewage” which prohibits the discharge of untreated sewerage...directly or indirectly into any stream, drainage system, drainage pipe, etc.**



**BMP No. C.4: Illicit Discharge Tracing Procedures**

Implement procedures established during original NOI to trace found/observed illicit discharges to their origin. Efforts to locate illicit discharges will be documented. Enhance current plan based on SWMP template and implement plan enhancements.

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by n end of Year 12.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12.**

**BMP No. C.5: Illicit Source Removal Procedures**

Implement procedures established during original NOI to remove directly connected illicit discharges (to the extent practicable), identified through the tracing program. Continue to advertise illicit discharge/illegal dumping hotline in local newsletter and track hotline calls. Enhance current plan based on SWMP template and implement plan enhancements.

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12.**

**BMP No. C.6 Program Evaluation and Assessment**

Periodically evaluate and assess the IDDE portion of the SWMP. Collaborate and share information about IDDE program and results through MAC.

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Representatives from the Village of Barrington Hills attend MAC meetings organized through the Lake County Stormwater Management Commission to discuss ideas about common illicit discharges, enforcement methods, prevention methods and public education.**

**BMP No. C.7: Visual Dry Weather Screening**

Implement dry weather screening program, established during original NOI. Continue screening storm sewer structures as part of regular cleaning and maintenance. Continue to investigate citizen illicit discharge/illegal dumping hotline reports in the field (“reactive investigation”).

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12.*

**A draft SWMP has been prepared that includes language related to this provision and**

**will be accepted by the Village in Year 12. The Village of Barrington Hills conducted dry weather inspections of each outfall identified on the Outfall Inventory Map in the summer of 2013. Results were summarized in report form. Outfalls with potential illicit discharges were followed up on.**

**BMP No. C.9: Public Notification**

It is anticipated that the enhanced SWMP template may include measures beyond the current program scope.

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12.*

*Consider additional language in SWMP template language, for incorporation into program by end of Year 12.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. The Village of Barrington Hills has used its website to notify the public about illicit discharges.**

**D. Construction Site Runoff Control**

Lake County has adopted a Watershed Development Ordinance (WDO) that establishes the minimum storm water management requirements for development in Lake County. The WDO, which is enforced by SMC as well as by certified communities in the county, establishes standards for construction site runoff control. The enforcement of the WDO implements BMPs as described below.

**BMP No. D.1: Regulatory Control Program**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Barrington Hills assists SMC in ensuring that all applicable developments are in compliance with the WDO.**

**BMP No. D.2: Erosion and Sediment Control BMPs**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Barrington Hills assists SMC in ensuring that all applicable developments are in compliance with the WDO.**

**BMP No. D.3: Other Waste Control Program**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Barrington Hills assists SMC in ensuring that all applicable developments are in compliance with the WDO.**

**BMP No. D.4: Site Plan Review Procedures**

See QLP description (in section E.4 of this document). Continue to stay in good standing with SMC. Continue to review TAC meeting minutes and provide input as applicable.

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Barrington Hills assists SMC in ensuring that all applicable developments are in compliance with the WDO.**

**BMP No. D.5: Public Information Handling Procedures**

See QLP description (in section E.4 of this document). Continue tracking number of complaints received and processed related to soil erosion and sediment control.

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Barrington Hills assists SMC in ensuring that all applicable developments are in compliance with the WDO.**

**BMP No. D.6: Site Inspection/Enforcement Procedures**

See QLP description (in section E.4 of this document). Continue current inspection and enforcement efforts.

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Barrington Hills assists SMC in ensuring that all applicable developments are in compliance with the WDO.**

#### **E. Post-Construction Runoff Control**

As described above, the Lake County Watershed Development Ordinance (WDO) establishes the minimum storm water management requirements for development in Lake County. The WDO establishes standards for post-construction site runoff control. These standards apply to any new development or redevelopment resulting in over 0.5 acres of new impervious area. The enforcement of the WDO implements BMPs as described below.

##### **BMP No. E.2: Regulatory Control Program**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Barrington Hills assists SMC in ensuring that all applicable developments are in compliance with the WDO.**

##### **BMP No. E.3: Long Term O&M Procedures**

See QLP description (in section E.4 of this document). Continue existing village inspection program of detention facilities.

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Barrington Hills assists SMC in ensuring that all applicable developments are in compliance with the WDO.**

##### **BMP No. E.4: Pre-Construction Review of BMP Designs**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Barrington Hills assists SMC in ensuring that all applicable developments are in compliance with the WDO.**

**BMP No. E.5: Site Inspections During Construction**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Barrington Hills assists SMC in ensuring that all applicable developments are in compliance with the WDO.**

**BMP No. E.6: Post-Construction Inspections**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 11. Barrington Hills assists SMC in ensuring that all applicable developments are in compliance with the WDO.**

**F. Pollution Prevention/Good Housekeeping**

This portion of the program involves the implementation of the operation and maintenance program to reduce the discharge of pollutants from municipal operations and a training program for municipal employees. The Village of Barrington Hills commits to implementation of BMPs as described below.

**BMP No. F.2: Inspection and Maintenance Program**

The Pollution Prevention/Good Housekeeping program includes measures to reduce the amount and type of pollution that: (1) collects on streets, parking lots, open spaces, and storage and vehicle maintenance areas and is discharged into local waterways; and (2) results from actions such as environmentally damaging land development and flood management practices or poor maintenance of storm sewer systems. Clean, correct, or otherwise address identified storm and sanitary sewer trouble areas.

*Measurable Goal(s): Review and revise draft SWMP language related to this provision by end of Year 12. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**A draft SWMP has been prepared that includes language related to this provision and will be accepted by the Village in Year 12. Barrington Hills assists SMC in ensuring that all applicable developments are in compliance with the WDO.**

### **Stormwater Management Program Assessment, Year 11**

An overall assessment of the MS4's stormwater management program and the appropriateness of its BMPs is provided below.

The MS4 collected water quality sampling data during Year 11, and reviewed the data to determine whether or not it provides any evidence of reduced pollutant loads or improved water quality. The data collected from water quality sampling locations upstream and downstream of the MS4's stormwater discharges show either no change or a decrease in the concentrations of a number of water quality parameters between the upstream and downstream sampling locations. These findings may be attributable to the MS4's stormwater management activities and indicate that the MS4's BMPs and stormwater management program are appropriate.



## **Part C. MS4 Information and Data Collection Results, Year 11**

### **Annual Monitoring and Data Collection, Year 11**

Information and data that the Village collected to meet the annual monitoring requirement of IEPA's General NPDES Permit No. ILR40 are summarized below.

Water quality sampling was conducted within the receiving waters, both upstream and downstream of the Village's stormwater discharges. A total of 6 locations are included in the Village's annual monitoring program. At these locations, the physical characteristics of the sampling point were observed and water quality samples (i.e., grab samples) were collected. Collected water quality samples were tested for:

- Ammonia
- Chloride
- Fluoride
- Biochemical Oxygen Demand (BOD)
- Phenolics
- Total Phosphorus
- Total Suspended Solids (TSS)
- Total Kjeldahl Nitrogen (TKN)
- Potassium
- pH

There were no noticeable increases in these water quality parameters between the upstream and downstream sampling locations.

### **IDDE Monitoring and Data Collection, Year 11**

Information and data that the MS4 collected as part of its illicit discharge detection and elimination program are summarized below.

A total of 4 dry weather flows were investigated at stormwater outfalls. No potential illicit discharges were identified at any of these locations.

**IEPA Annual Report**  
**Year 11 Tracking Forms**

## Public Education and Outreach

## Village of Barrington Hills

<u>Entry Type</u>	<u>Units</u>	<u>Material</u>	<u>Method of Distribution</u>	<u>Date</u>	<u>Target Audience</u>	<u>Description</u>
A.4 - Community Event				4/22/2013	Students and residents	Barrington Hills resident participated in a waste audit at Countryside School cafeteria
A.1 - Distributed Paper Material		Spring Newsletter	Email/Mail	3/1/2014	Residents	Information on upcoming road projects, drainage projects, and a native plant sale held by Citizens for Conservation
A.1 - Distributed Paper Material		Summer Newsletter	Email/Mail	5/1/2013	Residents	Contained quick tips about ash trees and the Emerald Ash Borer, information on the Flint and Spring Creek Watersheds and tips for protecting the watershed.

# Public Participation/Involvement

# Village of Barrington Hills

<u>Entry Type</u>	<u>Date</u>	<u>Description</u>	<u>Location</u>	<u>Initials</u>
B.3-Stakeholder Meeting	3/10/2013	Flint Creek Watershed Partnership Meeting	Barrington Hills	
B.3-Stakeholder Meeting	8/28/2013	Flint Creek Watershed Partnership Meeting	Barrington Hills	
B.3-Stakeholder Meeting	11/5/2013	Flint Creek Watershed Partnership Meeting	Barrington Hills	
B.3-Stakeholder Meeting	12/11/2013	Flint Creek Watershed Partnership Meeting	Barrington Hills	
B.3-Stakeholder Meetings	3/13/2014	Flint Creek Watershed Partnership Meeting	Barrington Hills	
B.3-Stakeholder Meeting	3/28/2013	Spring Creek Watershed Partnership Meeting	Barrington Hills	
B.3-Stakeholder Meeting	4/25/2013	Spring Creek Watershed Partnership Meeting	Barrington Hills	
B.3-Stakeholder Meeting	11/25/2013	Spring Creek Watershed Partnership Meeting	Barrington Hills	
B.3-Stakeholder Meeting	3/11/2014	Spring Creek Watershed Partnership Meeting	Barrington Hills	
B.3-Stakeholder Meeting	8/12/2013	Plan Commission Attendance by SCWP Coordinator	Barrington Hills	

# Illicit Discharge Detection and Elimination

## Village of Barrington Hills

<u>Entry Type</u>	<u>Outfall ID</u>	<u>Location Description</u>	<u>Date</u>	<u>Reason For Inspection</u>
C.7-Visual Dry Weather Screening	1-58	Village of Barrington Hills	6/19/2013	Inspected 54 outfalls - MS4 Annual Inspection
C.7-Visual Dry Weather Screening	A-Z, AA-A	Village of Barrington Hills	6/19/2013	Inspected 31 Basins (unable to access 2) - MS4 Annual Inspections

# Pollution Prevention/Good Housekeeping

# Village of Barrington Hills

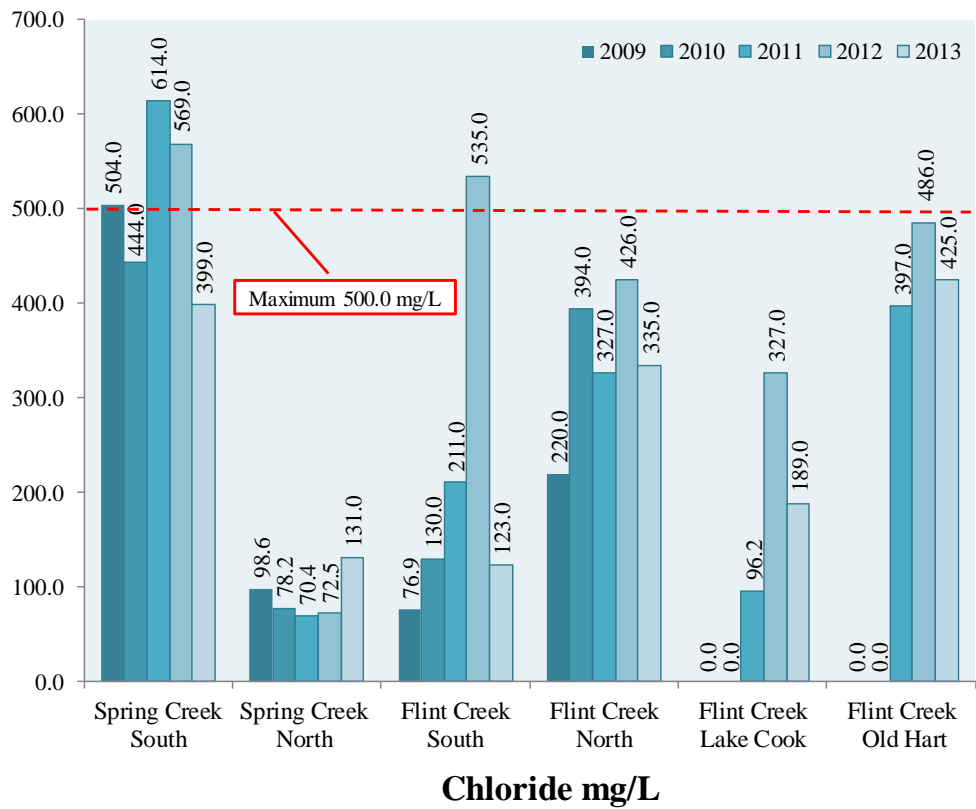
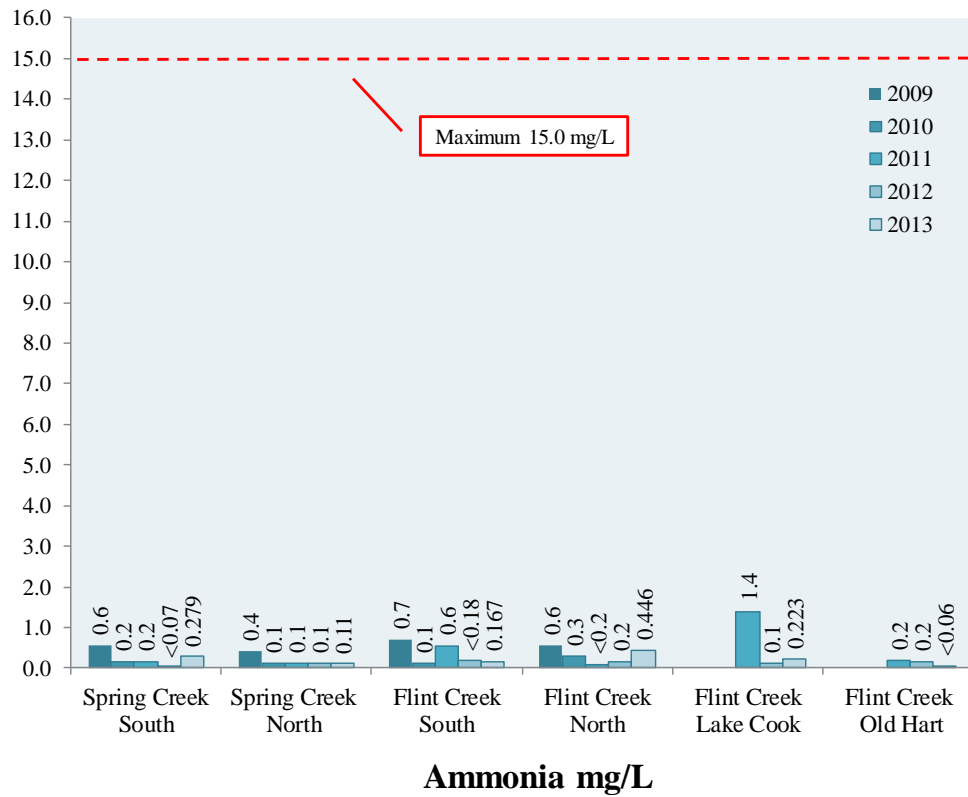
<u>Entry Type</u>	<u>Description</u>	<u>PPGH Date</u>
F.2-Inspection and Maintenance Program	Street sweeping of 15,000 lineal feet	11/14/2013
F.2-Inspection and Maintenance Program	Inspected approximately 7,300 lineal feet of streambank (Zone 4)	7/23/2013 Streambank Inspection

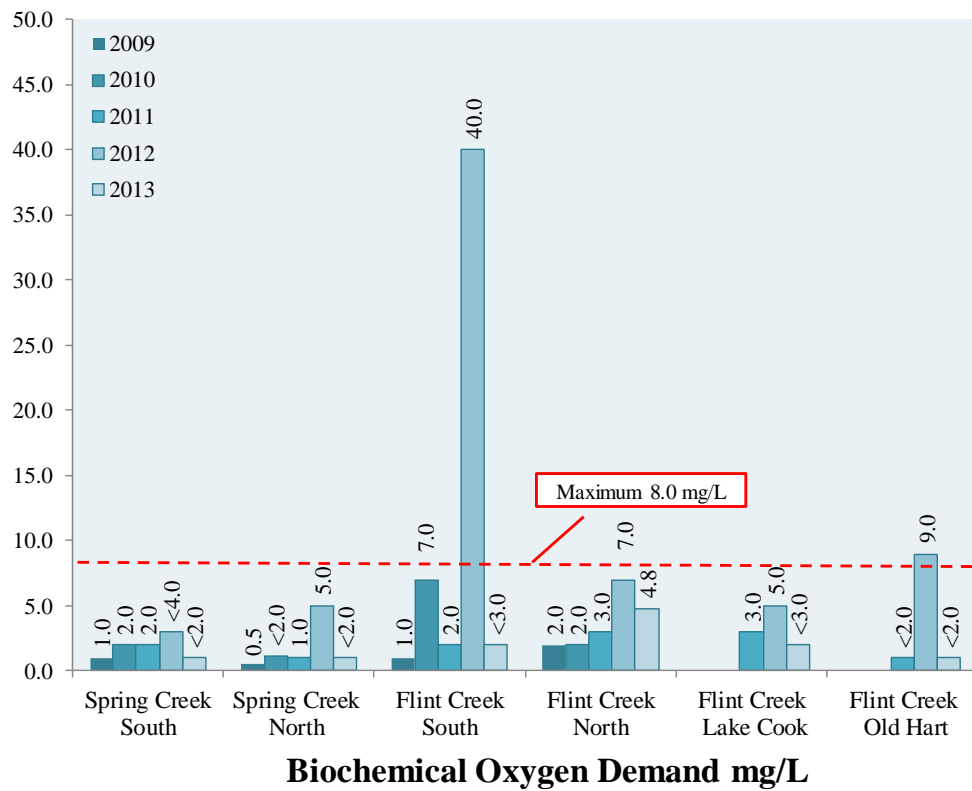
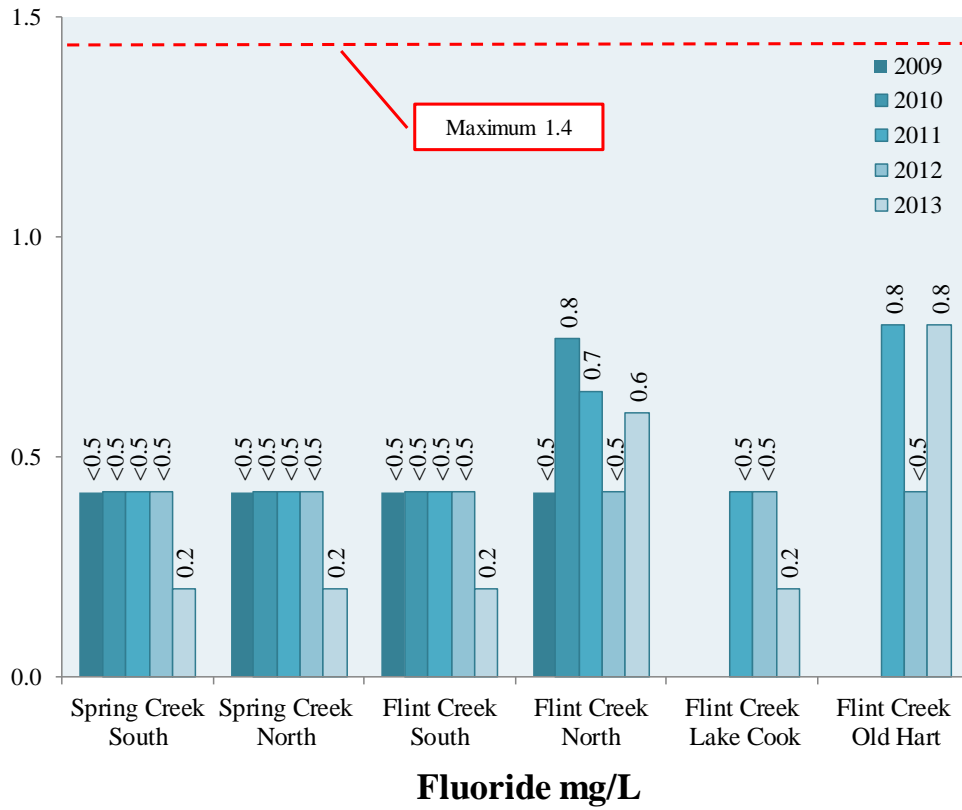


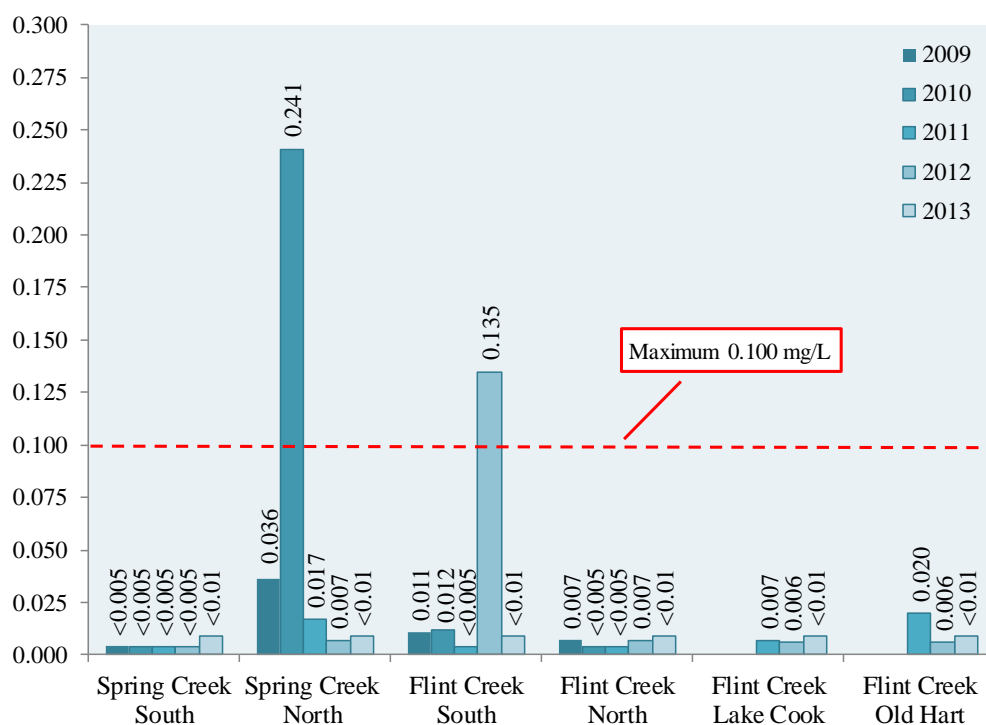
## Village of Barrington Hills Water Quality Results 2013

	IPCB Standards or Accepted Limits in mg/L	SpringCreek_S	Spring Creek_N	FlintCreek_S	FlintCreek_N	FlintCreek_LakeCook	FlintCreek_OldHart
Date Tested		9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013
Ammonia	15.0	0.279	0.11	0.167	0.446	0.223	<0.06
Chloride	500.0	399.0	131.0	123.0	335.0	189.0	425.0
Fluoride	1.4	0.2	0.2	0.2	0.6	0.2	0.8
BOD	<8.0	<2.0	<2.0	<3.0	4.8	<3.0	<2.0
Phenolics	0.100	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phosphorous, Total	0.05	0.156	0.057	1.76	1.44	0.119	0.306
Total Kjeldahl Nitrogen	<20.0	1.95	0.84	2.09	3.48	0.98	0.98
Total Suspended Solids	15-30.0	38.5	5.0	96.5	80.5	19.0	12.5
Potassium	20.0	3.8	3.0	3.5	8.6	2.4	12.3
Date Tested		9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013
Dissolved Oxygen	March - July at least 5.0 ppm Aug -Feb at least 3.5 ppm	N/A	N/A	N/A	N/A	N/A	N/A
Conductivity	50.0-1500.0 µS/cm	N/A	N/A	N/A	N/A	N/A	N/A
Temperature °F	Dec - Mar 60° F Max Apr - Nov 90° F Max	N/A	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids	1000.0 ppm	N/A	N/A	N/A	N/A	N/A	N/A
pH	6.5 - 9.0	7.87	8.26	7.66	8.25	7.66	8.10

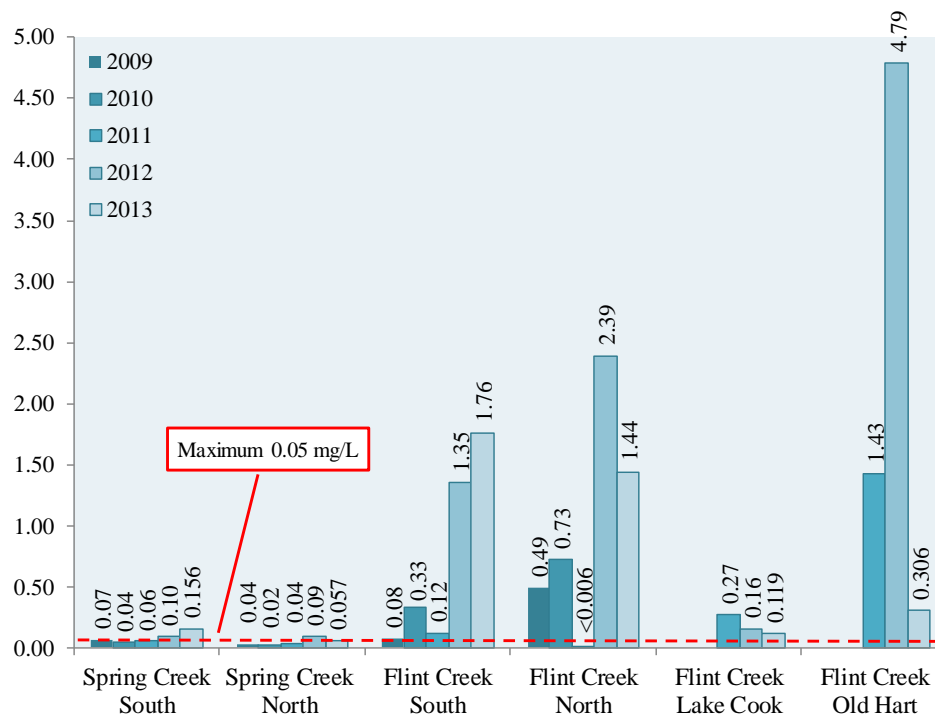
\*Title 35 Part 302 Water Quality Standards unless



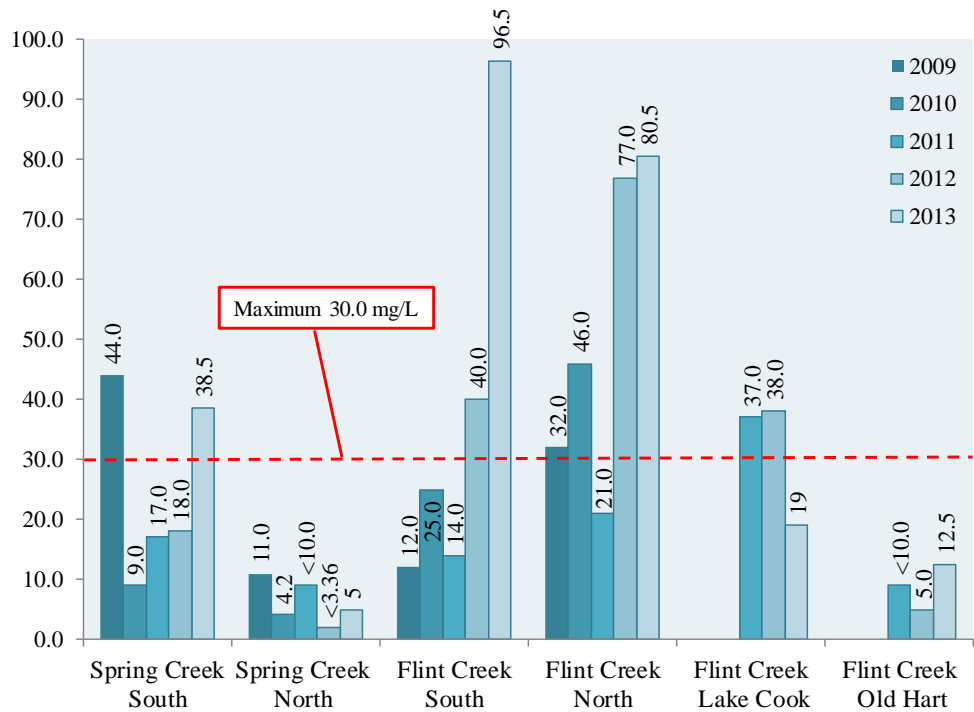




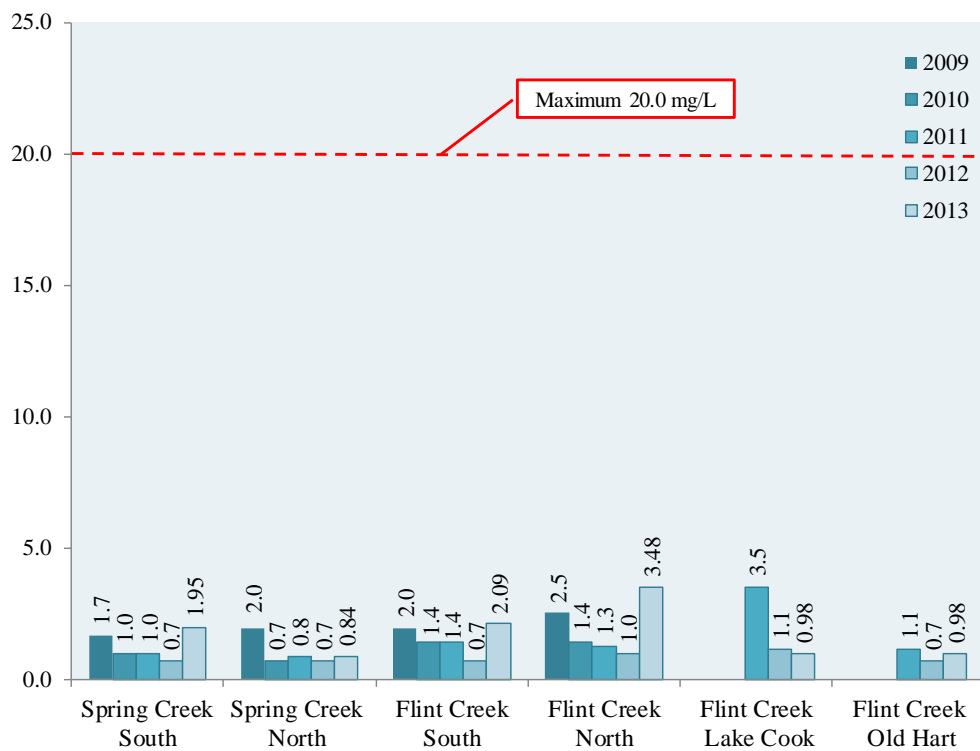
**Phenolics mg/L**



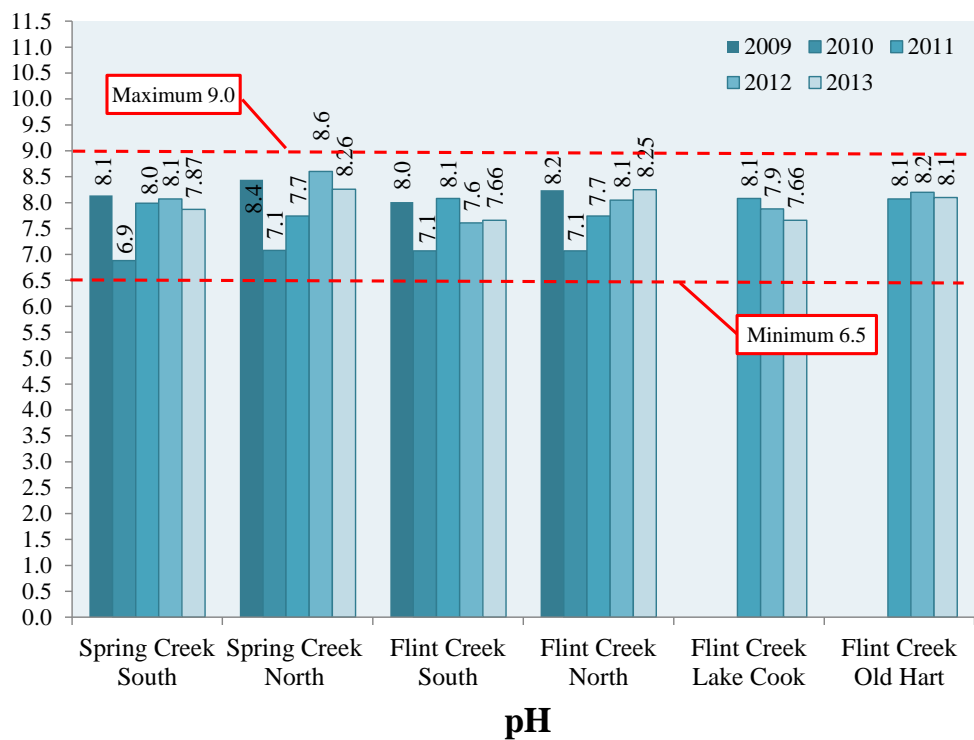
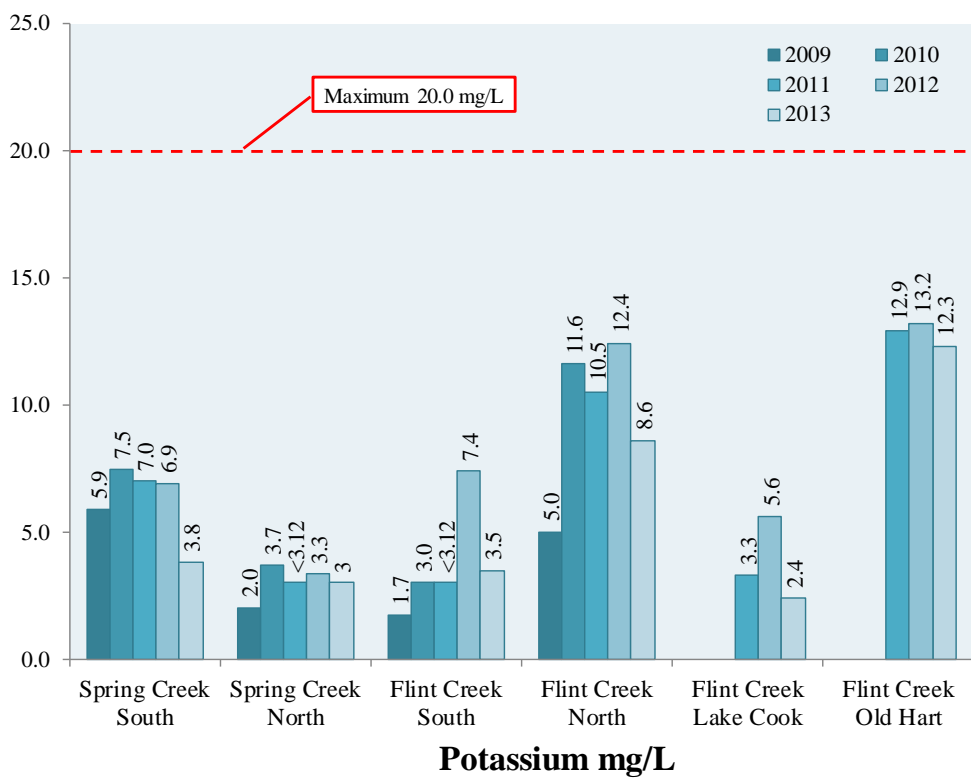
**Total Phosphorus mg/L**



**Total Suspended Solids mg/L**



**Total Kjeldahl Nitrogen mg/L**





## Part D. MS4 Summary of Year 12 Stormwater Activities

The table below indicates the stormwater management activities that the Village of Barrington Hills plans to undertake during Year 12. Additional information about the BMPs and measurable goals that the MS4 will implement during Year 12 is provided in the section following the table.

**Note:** X indicates BMPs that will be implemented during Year 12

Year 12	
MS4	
<b>A. Public Education and Outreach</b>	
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
	A.6 Other Public Education
<b>B. Public Participation/Involvement</b>	
	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
X	B.4 Public Hearing
	B.5 Volunteer Monitoring
	B.6 Program Coordination
	B.7 Other Public Involvement
<b>C. Illicit Discharge Detection and Elimination</b>	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	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 12	
MS4	
<b>D. Construction Site Runoff Control</b>	
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
<b>E. Post-Construction Runoff Control</b>	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>	
	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

Please note that the most recent version of IEPA's General NPDES Permit No. ILR40 (Permit) expired on March 31, 2014, and that the new version of the Permit, which will likely be issued during Year 12, has not yet been released to the public. Although it is difficult to accurately predict the changes that IEPA will make to the new version of the Permit, the MS4 remains committed to performing activities related to the six MCMs described in the most recent version of the Permit.

During Year 12, the MS4 plans to continue to perform a variety of stormwater management activities, as described in detail in the Village's SMPP and in brief below. The Village will continue to use tracking forms to track the implementation of the BMPs described in its SWMP.

#### **A. Public Education and Outreach**

The Village of Barrington Hills is committing to implementing the Public Education and Outreach component of its Storm Water Management Plan. The Public Education and Outreach program includes the distribution of educational material to the community or conducting equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants to storm water runoff. The Village commits to implementation of BMPs as described below.

##### **BMP No. A.1: Distributed Paper Material**

The SMC develops and distributes a variety of materials related to storm water management in Lake County. A number of pamphlets and brochures related to BMPs and storm water management have been produced. The Village makes these publications, at a minimum, available.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

##### **BMP No. A.4: Community Event**

The Village of Barrington Hills provides a convenient location where the general public can dispose of common household pollutants. Solid Waste Agency of Lake County (SWALCO) holds household waste collection events in various communities throughout Lake County, which assist in collecting waste before it enters the storm sewer system. The Village publicizes these SWALCO events.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

#### **B. Public Participation/Involvement**

The Village of Barrington Hills is committing to implementing the Public Participation/Involvement component of its SWMP. The Public Participation/Involvement program includes attending and publicizing watershed stakeholder meetings, presenting program information at a public meeting at least annually and publicizing IDDE reporting contact numbers. The Village of Barrington Hills commits to implementation of BMPs as described below.

**BMP No. B.3: Stakeholder Meeting**

Stakeholder meetings are conducted throughout the county for ongoing planning and project implementation efforts. When stakeholder groups (such as watershed planning committees) include the jurisdictional area of the Village of Barrington Hills, the Village will publicize stakeholder meetings locally and participate by being represented at the stakeholder meetings.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

**BMP No. B.4: Public Hearing**

The Village of Barrington Hills will conduct a public meeting to present each annual report and on its proposed SWMP.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

**C. Illicit Discharge Detection and Elimination**

The Village of Barrington Hills will implement program activities related to the Illicit Discharge Detection and Elimination (IDDE) minimum control. The requirements of an IDDE program include the following:

- Develop a storm sewer system map that shows the locations of all outfalls and the names and locations of all Waters of the US (WOUS) that receive discharges from those outfalls.
- Prohibit non-storm water discharges into the storm sewer system and implement appropriate enforcement procedures and actions.
- Develop and implement a plan to detect and address illicit discharges into the storm sewer system.
- Educate public employees, businesses and general public of hazards associated with illegal discharges and improper disposal of waste.
- Identify the appropriate best management practices and measurable goals.

**BMP No. C.1: Storm Sewer Map Preparation**

The Village prepared an outfall map, under the original NOI, to allow for tracking of dry weather flow inspections and outfall maintenance.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

**BMP No. C.2: Regulatory Control Program**

The Village of Barrington Hills adopted ordinance language to prohibit non-storm water discharges to the storm sewer or drainage system, under the original NOI. Additionally, the

WDO includes provisions, which prohibit illegal dumping to the storm sewer or drainage system.

*Measurable Goal(s): Continue to enforce the ordinances. Review, revise and accept draft SWMP language related to this provision by end of Year 12.  
Implement and track progress of BMPS as described in the SWMP.*

**BMP No. C.4: Illicit Discharge Tracing Procedures**

Implement procedures established during original NOI to trace found/observed illicit discharges to their origin. Efforts to locate illicit discharges will be documented. Enhance current plan based on SWMP template and implement plan enhancements.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

**BMP No. C.5: Illicit Source Removal Procedures**

Implement procedures established during original NOI to remove directly connected illicit discharges (to the extent practicable), identified through the tracing program. Continue to advertise illicit discharge/illegal dumping hotline in local newsletter and track hotline calls. Enhance current plan based on SWMP template and implement plan enhancements.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

**BMP No. C.6 Program Evaluation and Assessment**

Periodically evaluate and assess the IDDE portion of the SWMP. Collaborate and share information about IDDE program and results through MAC.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

**BMP No. C.7: Visual Dry Weather Screening**

Implement dry weather screening program, established during original NOI. Continue screening storm sewer structures as part of regular cleaning and maintenance. Continue to investigate citizen illicit discharge/illegal dumping hotline reports in the field (“reactive investigation”).

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

**BMP No. C.9: Public Notification**

It is anticipated that the enhanced SWMP template may include measures beyond the current program scope.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

**D. Construction Site Runoff Control**

Lake County has adopted a Watershed Development Ordinance (WDO) that establishes the minimum storm water management requirements for development in Lake County. The WDO, which is enforced by SMC as well as by certified communities in the county, establishes standards for construction site runoff control. The enforcement of the WDO implements BMPs as described below.

**BMP No. D.1: Regulatory Control Program**

See QLP description (in section E.4 of this document)

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**BMP No. D.2: Erosion and Sediment Control BMPs**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**BMP No. D.3: Other Waste Control Program**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**BMP No. D.4: Site Plan Review Procedures**

See QLP description (in section E.4 of this document). Continue to stay in good standing with SMC. Continue to review TAC meeting minutes and provide input as applicable.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as*

*described in the SWMP. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**BMP No. D.5: Public Information Handling Procedures**

See QLP description (in section E.4 of this document). Continue tracking number of complaints received and processed related to soil erosion and sediment control.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

**BMP No. D.6: Site Inspection/Enforcement Procedures**

See QLP description (in section E.4 of this document). Continue current inspection and enforcement efforts.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

**E. Post-Construction Runoff Control**

As described above, the Lake County Watershed Development Ordinance (WDO) establishes the minimum storm water management requirements for development in Lake County. The WDO establishes standards for post-construction site runoff control. These standards apply to any new development or redevelopment resulting in over 0.5 acre of new impervious area. The enforcement of the WDO implements BMPs as described below.

**BMP No. E.2: Regulatory Control Program**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**BMP No. E.3: Long Term O&M Procedures**

See QLP description (in section E.4 of this document). Continue existing village inspection program of detention facilities.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**BMP No. E.4: Pre-Construction Review of BMP Designs**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**BMP No. E.5: Site Inspections During Construction**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**BMP No. E.6: Post-Construction Inspections**

See QLP description (in section E.4 of this document).

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP. Assist SMC in ensuring all applicable developments are in compliance with the WDO.*

**F. Pollution Prevention/Good Housekeeping**

This portion of the program involves the implementation of the operation and maintenance program to reduce the discharge of pollutants from municipal operations and a training program for municipal employees. The Village of Barrington Hills commits to implementation of BMPs as described below.

**BMP No. F.2: Inspection and Maintenance Program**

The Pollution Prevention/Good Housekeeping program includes measures to reduce the amount and type of pollution that: (1) collects on streets, parking lots, open spaces, and storage and vehicle maintenance areas and is discharged into local waterways; and (2) results from actions such as environmentally damaging land development and flood management practices or poor maintenance of storm sewer systems. Clean, correct, or otherwise address identified storm and sanitary sewer trouble areas.

*Measurable Goal(s): Review, revise and accept draft SWMP language related to this provision by end of Year 12. Implement and track progress of BMPs as described in the SWMP.*

## **Part E. Notice of Qualifying Local Program**

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

- **Part E1** identifies changes to Best Management Practices (BMPs) that occurred during Year 11 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 11.
- **Part E3** summarizes the information and data collected by the QLP during Year 11.
- **Part E4** describes the stormwater management activities that the QLP plans to undertake during Year 12.
- **Part E5** lists the construction projects that were funded by the QLP during Year 11.



## Part E1. QLP Changes to Best Management Practices, Year 11

**Note:** X indicates BMPs that were implemented as planned  
✓ indicates BMPs that were changed during Year 11

Year 11	
QLP	
<b>A. Public Education and Outreach</b>	
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>B. Public Participation/Involvement</b>	
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
<b>C. Illicit Discharge Detection and Elimination</b>	
	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 11	
QLP	
<b>D. Construction Site Runoff Control</b>	
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
<b>E. Post-Construction Runoff Control</b>	
	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
<b>F. Pollution Prevention/Good Housekeeping</b>	
X	F.1 Employee Training Program
	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

## Part E2. QLP Status of Compliance with Permit Conditions, Year 11

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 11 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.*

**SMC distributes a variety of informational materials related to stormwater management through its "take away" rack and website.**

**Upon request, informational materials are distributed directly to Lake County MS4s in .PDF format for use on community websites, in community newsletters, and in community "take away" racks.**

#### A.3 Public Service Announcement

*Measurable Goal(s): Include public service announcement highlighting community accomplishments related to IEPA's NPDES Stormwater Program in "Mainstream" once annually. Post watershed identification signage with LCDOT. Upon request, present "The Big Picture: Water Quality, Regulations & NPDES" to Lake County MS4s.*

**SMC includes announcements highlighting community accomplishments related to the NPDES Municipal Stormwater Program on its website, in its newsletter, and through other media outlets.**

**Watershed identification signage is located throughout the county.**

**SMC made the "The Big Picture: Water Quality, Regulations & NPDES" presentation available to Lake County MS4s upon request. According to records, between March 1, 2013 and February 28, 2014, no MS4s requested the presentation.**

#### A.4 Community Event

*Measurable Goal(s): Sponsor or co-sponsor workshop on a topic related to IEPA's NPDES Stormwater Program.*

**SMC sponsored or co-sponsored a number of workshops and events on stormwater-related topics between March 1, 2013 and February 28, 2014, including:**

- **Presentation on Montgomery, IL Municipal Stormwater Maintenance Program at Mar. 13, 2013 MAC meeting**

- **Presentation on Gurnee, IL Municipal Stormwater Maintenance Program at Mar. 13, 2013 MAC meeting**
- **Webcast on Smart Stormwater Retrofitting in the Urban Environment on Mar. 13, 2013**
- **Webcast on Watershed Arithmetic: Crediting & Counting Your Watershed Practices Toward TMDL Goals on Apr. 17, 2013**
- **Homeowners Association (HOA) Stormwater Maintenance Workshop held on Apr. 14, 2013**
- **It's Our River Day Stream Cleanup in Highland Park, IL on May 11, 2013**
- **Rain Barrel Sale in Libertyville, IL on May 11, 2013**
- **Webcast on Please Come Audit My MS4 on May 15, 2013**
- **Designated Erosion Control Inspector (DECI) Workshop held on Jun. 5, 2013**
- **Presentation on Federal & Local Permit Requirements Associated with Dredging Projects at Jun. 12, 2013 MAC meeting**
- **Presentation on Davlin's Pond (Tower Lake) Dredging Project at Jun. 12, 2013 MAC meeting**
- **Webcast on Mastering the Language of Talking to Elected Officials on Jun. 19, 2013**
- **Presentation on Changes to the National Flood Insurance Program: Impact of the Biggert-Waters Act in Your Community at Sep. 11, 2013 MAC meeting**
- **Mill Creek Stream Cleanup in Gurnee, IL on Sep. 14, 2013**
- **Webcast on Combining Green and Gray in Combined Sewer Watersheds on Sep. 18, 2013**
- **Roadway De-Icing Workshop held on Oct. 1 & 2, 2013**
- **Webcast on Stormwater Trading: Markets or Mayhem? on Oct. 16, 2013**
- **Webcast on Stormwater Utilities: Reckoning the Cost Side of the Equation on Nov. 20, 2013**
- **Presentation on Maintenance of Post-Construction Stormwater BMPs at Dec. 11, 2013 MAC meeting**
- **Presentation on Illinois Coastal Management Program at Dec. 11, 2013 MAC meeting**
- **Webcast on Reimagining the Parking Lot & Roadway as a Stormwater Practice on Feb. 12, 2014**

#### **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.*

**Stormwater educational materials were compiled for use at several public education events that were held between March 1, 2013 and February 28, 2014, including:**

- **Lake County Strategic Plan Community Forums in Various Locations on Mar. 5 & 6, 2013, and Mar. 12 & 13, 2013**
- **Lake County Green Living Fair held in Libertyville, IL on Mar. 16, 2013**
- **Water Presentation held in Riverwoods, IL on Jun. 5, 2013**
- **Loch Lomond Property Owners Association's Loch Fest held in Mundelein, IL on Jul. 27, 2013**
- **North Park 10<sup>th</sup> Anniversary Celebration held in Lincolnshire, IL on Aug. 25, 2013**

#### **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.*

**As new information and resource materials become available, they are posted to the SMC website and/or distributed directly to Lake County MS4s.  
SMC made the "The Big Picture: Water Quality, Regulations & NPDES" presentation available to Lake County MS4s upon request. According to records, between March 1, 2013 and February 28, 2014, no MS4s requested the presentation.**

### **B. Public Participation/Involvement**

#### **B.1 Public Panel**

*Measurable Goal(s): Provide notice of public meetings on SMC website.  
Track number of meetings conducted.*

**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 10. According to records, there were 10 SMC meetings, 5 TAC meetings, 4 MAC meetings, and 1 WMB meeting conducted during this reporting period.**

#### **B.3 Stakeholder Meeting**

*Measurable Goal(s): Provide notice of stakeholder meetings on SMC website.  
Track number of watershed planning committee meetings conducted.  
Establish watershed planning committees for each new watershed planning effort.*

**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 11:**

- **North Branch Chicago River Planning Committee – 4**
- **Skokie River Consortium – 1**
- **Mill Creek Watershed Planning Committee – 14**
- **Bull Creek/Bull's Brook Watershed Council – 4**
- **Buffalo Creek Clean Water Partnership – 4**
- **Flint Creek Watershed Partnership – 4**
- **Tower Lake Drain Watershed Partnership – 2**
- **9 Lakes TMDL Implementation Planning Committee – 5**

**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 10.  
Prepare annual report on Qualifying Local Program activities at end of Year 10.*

**SMC tracked the number of Municipal Advisory Committee (MAC) meetings conducted during Year 11. According to records, there were 4 MAC meetings conducted during this reporting period.**

**The stormwater management activities that SMC performed as a QLP during Year 11 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 12 are described in Part E4 of the Annual Report template.**

### **C. Illicit Discharge Detection and Elimination**

#### **C.2 Regulatory Control Program**

*Measurable Goal(s): Continue to enforce the countywide WDO.*

**SMC continues to enforce the countywide WDO.**

#### **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.*

**SMC sponsored or co-sponsored a number of workshops and events on stormwater-related topics between March 1, 2013 and February 28, 2014.**

## **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.*

**SMC continues to enforce the countywide WDO.**

**SMC continues to administer the Designated Erosion Control Inspector (DECI) program as outlined by the WDO.**

### **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.*

**SMC continues to enforce the countywide WDO.**

**The TRM is currently being updated to include guidance on the WDO amendments as well as ordinance administration and enforcement.**

### **D.3 Other Waste Control Program**

*Measurable Goal(s): Enforce WDO provisions regarding the control of waste and debris at construction sites.*

**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.*

**SMC continues to track the number of enforcement officers (EOs) who have passed the EO exam and have become EOs. According to records, as of the end of Year 11, there were 82 EOs in Lake County.**

**SMC last completed a cycle of the community re-certification process, which included a performance review of all 53 certified and non-certified communities, during a previous reporting period (i.e., Year 9). In accordance with the amended countywide WDO, the next cycle of the community re-certification process is scheduled to be completed in 2017.**

**The TRM is currently being updated to include guidance on the WDO amendments 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.*

**SMC continues to track the number of complaints received and processed related to soil erosion and sediment control. According to records, between March 1, 2013 and February 28, 2014, 0 SE/SC complaints were received and processed by SMC staff.**

#### **D.6 Site Inspection/Enforcement Procedures**

*Measurable Goal(s): Track number of site inspections conducted by SMC.*

**SMC continues to track the number of site inspections conducted by SMC staff. According to records, between March 1, 2013 and February 28, 2014, 531 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.*

**SMC continues to enforce the countywide WDO.**

#### **E.3 Long Term O&M Procedures**

*Measurable Goal(s): Continue to enforce the countywide WDO.*

**SMC continues to enforce the countywide WDO.**

#### **E.4 Pre-Construction Review of BMP Designs**

*Measurable Goal(s): Continue to enforce the countywide WDO.*

**SMC continues to enforce the countywide WDO.**

#### **E.5 Site Inspections During Construction**

*Measurable Goal(s): Continue to enforce the countywide WDO.*

**SMC continues to enforce the countywide WDO.**

#### **E.6 Post-Construction Inspections**

*Measurable Goal(s): Continue to enforce the countywide WDO.*

**SMC continues to enforce the countywide WDO.**

#### **E.7 Other Post-Construction Runoff Controls**

*Measurable Goal(s): Conduct annual WMB meeting.*

*Contribute funding to flood reduction and water quality improvement projects, including stormwater retrofits, through the WMB.*

**The annual WMB meeting was held on Dec. 12, 2013.**

**At the annual WMB meeting, 16 flood reduction and water quality improvement**

**projects, including stormwater retrofit projects, were selected to receive just over \$177,000 of funding through the WMB.**

## **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 software.*

**SMC continues to provide information on training opportunities and training resources to Lake County MS4s.**

**SMC sponsored or co-sponsored a number of workshops and events on stormwater-related topics between March 1, 2013 and February 28, 2014.**

**SMC continues to make available the Excal Visual Storm Watch Municipal Stormwater Pollution Prevention software to Lake County MS4s. According to records, between March 1, 2013 and February 28, 2014, 1 MS4 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.*

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



## **Part E3. QLP Information and Data Collection Results, Year 11**

The QLP did not collect any monitoring data on behalf of Lake County's MS4s during Year 11. However, SMC has reviewed information presented by the Illinois EPA in the 2012 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 April 2014**

This brief report is based on information contained in the Illinois EPA's 2012 Illinois Integrated Water Quality Report and Section 303(d) List, dated December 20, 2012. Its purpose is to provide basic information to Lake County's MS4 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 2012 Illinois Integrated Water Quality Report and Section 303(d) List.

#### **Streams**

An analysis of data accompanying the Illinois EPA's 2012 Illinois Integrated Water Quality Report and Section 303(d) List shows that 183 stream miles in Lake County have been assessed by the Illinois EPA for attainment of at least one designated use. The degree of support (attainment) of a designated use in a particular stream segment is determined by the Illinois EPA through an analysis of various types of information, including biological, physicochemical, physical habitat, and toxicity data. When sufficient data are available, the Illinois EPA assesses each applicable designated use in a particular stream segment as Fully Supporting (good), Not Supporting (fair), or Not Supporting (poor). Waters in which at least one applicable use is not fully supported are called "impaired."

An analysis of data accompanying the Illinois EPA's 2012 Illinois Integrated Water Quality Report and Section 303(d) List shows that 139 stream miles (of the 183 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.

#### **Lakes**

An analysis of data accompanying the Illinois EPA's 2012 Illinois Integrated Water Quality Report 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. As with streams, the degree of support (attainment) of a designated use in a particular lake is determined by the Illinois EPA through an analysis of various types of information, including biological, physicochemical, physical habitat, and toxicity data. When sufficient data are available, the Illinois EPA assesses each applicable designated use in a particular lake as Fully Supporting (good), Not Supporting (fair), or Not Supporting (poor). Waters in which at least one applicable use is not fully supported are called "impaired."

An analysis of data accompanying the Illinois EPA's 2012 Illinois Integrated Water Quality Report and Section 303(d) List shows that 134 inland lakes in Lake County are considered impaired by the Illinois EPA. These lakes have been mapped and are shown in Figure E3.1.

### **Lake Michigan**

Lake Michigan is monitored annually through a cooperative agreement between the City of Chicago and the Illinois EPA. Bordering Cook and Lake Counties, the State of Illinois has jurisdiction over approximately 1,526 square miles of open water, 2.62 square miles of bays and harbors, and 63 shoreline miles of Lake Michigan.

196 square miles of open water of Lake Michigan, or about thirteen percent of the total open water located within Illinois, were assessed for the Illinois EPA's 2012 Illinois Integrated Water Quality Report and Section 303(d) List, and all 196 assessed square miles were rated as Fully Supporting for the following uses: aesthetic quality, aquatic life use, primary contact use, secondary contact use, and public and food processing water supply use. However, fish consumption use in all 196 assessed square miles of open water was rated as Not Supporting due to contamination from polychlorinated biphenyls (PCBs) and mercury.

A portion of all 2.62 square miles of bays and harbors of Lake Michigan located in Illinois were assessed for the Illinois EPA's 2012 Illinois Integrated Water Quality Report and Section 303(d) List for several different designated uses. 66.7 percent of the square miles of bays and harbors assessed for aesthetic quality (i.e., 1.2 of 1.8 sq. mi.) were rated as Fully Supporting, while the remaining 33.3 percent (i.e., 0.6 of 1.8 sq. mi.) were rated as Not Supporting. 97.6 percent of the square miles of bays and harbors assessed for aquatic life use (i.e., 2.52 of 2.58 sq. mi.) were rated as Fully Supporting, while the remaining 2.4 percent (i.e., 0.06 of 2.58 sq. mi.) were rated as Not Supporting. 100 percent of the square miles of bays and harbors assessed for fish consumption (i.e., 2.62 of 2.62 sq. mi.), were rated as Not Supporting. Potential causes of impairment in the bays and harbors of Lake Michigan located in Illinois include contamination from polychlorinated biphenyls (PCBs), mercury, bottom deposits, lead, zinc, cadmium, arsenic, phosphorus, copper, and chromium.

A portion of all 63 shoreline miles of Lake Michigan located in Illinois were assessed for the Illinois EPA's 2012 Illinois Integrated Water Quality Report and Section 303(d) List for several different designated uses. All 63 of the shoreline miles assessed for fish consumption and primary contact use were rated as Not Supporting due to bacterial contamination from *Escherichia coli* (*E. coli*) bacteria and contamination from polychlorinated biphenyls (PCBs) and mercury.

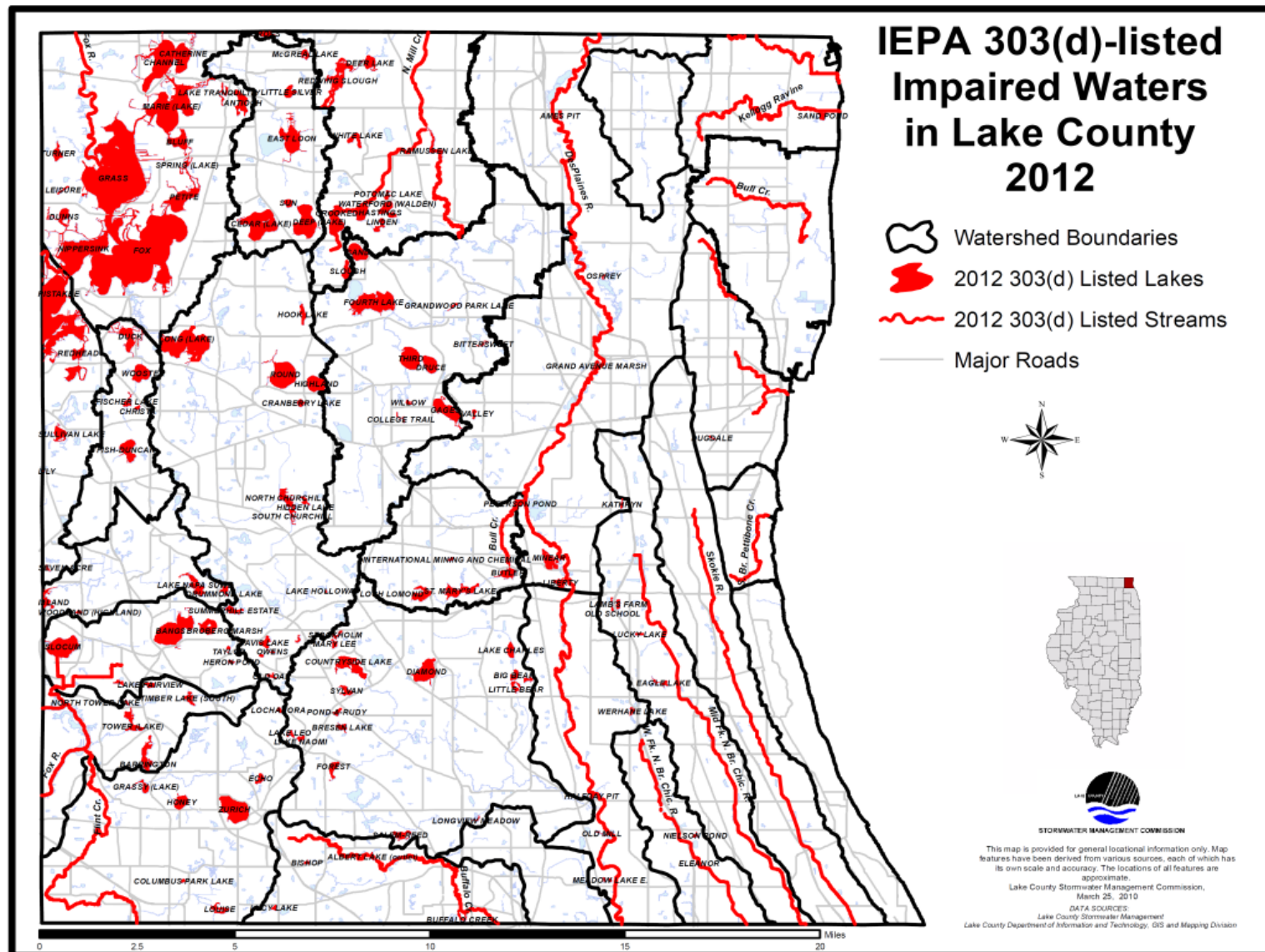


Figure E3.1

## Part E4. QLP Summary of Year 12 Stormwater Activities

The table below indicates the stormwater management activities that the QLP plans to undertake during Year 12. Additional information about the BMPs and measurable goals that the QLP will implement during Year 12 is provided in the section following the table.

**Note:** X indicates BMPs that will be implemented during Year 12

Year 12	
QLP	
<b>A. Public Education and Outreach</b>	
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>B. Public Participation/Involvement</b>	
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
<b>C. Illicit Discharge Detection and Elimination</b>	
	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 12	
QLP	
<b>D. Construction Site Runoff Control</b>	
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
<b>E. Post-Construction Runoff Control</b>	
	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
<b>F. Pollution Prevention/Good Housekeeping</b>	
X	F.1 Employee Training Program
	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

Please note that the most recent version of IEPA's General NPDES Permit No. ILR40 (Permit) expired on March 31, 2014, and that the new version of the Permit, which will likely be issued during Year 12, has not yet been released to the public. Although it is difficult to accurately predict the changes that IEPA will make to the new version of the Permit, SMC remains committed to performing activities related to the six MCMs described in the most recent version of the Permit.

During Year 12, SMC plans to continue to perform a variety of stormwater management activities, as described in more detail below. In addition to the stormwater management activities described below, SMC will continue to provide general support to Lake County MS4s as they continue to implement their stormwater management programs.

#### **A. Public Education and Outreach**

SMC will support Lake County MS4s by performing activities related to the Public Education and Outreach minimum control measure, as described below.

##### **A.1 Distributed Paper Material**

SMC develops and distributes a variety of materials related to stormwater management in Lake County. SMC has produced a number of pamphlets and brochures related to stormwater management and BMPs and prepares a quarterly newsletter, "Mainstream," as well as an Annual Report, that highlight stormwater management activities conducted in Lake County. SMC also prepares project fact sheets that provide information on ongoing and recently completed stormwater management projects. In addition, SMC has developed or collaborated on a number of manuals related to stormwater management, such as "Riparian Areas Management: A Citizen's Guide," "A Citizen's Guide to Maintaining Stormwater Best Management Practices," and the "Streambank Stabilization Manual," and will continue to develop or collaborate on such manuals or manual updates.

*Measurable Goal(s): Distribute informational materials from "take away" rack at SMC. Upon request, distribute materials directly to municipalities for local distribution.*

##### **A.3 Public Service Announcement**

A public service announcement related to IEPA's NPDES Stormwater Program will be written and included in SMC's Quarterly Newsletter, "Mainstream." SMC will coordinate with the Lake County Department of Transportation (LCDOT) to post watershed identification signage in watersheds where watershed planning activities occur. Upon request, SMC will provide an educational presentation on IEPA's NPDES Stormwater Program to Lake County MS4s.

*Measurable Goal(s): Include public service announcement highlighting community accomplishments related to IEPA's NPDES Stormwater Program in "Mainstream" once annually. Post watershed identification signage with LCDOT. Upon request, present "The Big Picture: Water Quality, Regulations & NPDES" to Lake County MS4s.*

#### **A.4 Community Event**

SMC sponsors and co-sponsors technical training and public awareness workshops. 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 best management practices that can be used to protect water quality.

*Measurable Goal(s): Sponsor or co-sponsor workshop on a topic related to IEPA's NPDES Stormwater Program.*

#### **A.5 Classroom Education**

SMC will contribute to the development and compilation of a stormwater educational material kit for local teachers.

*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.*

#### **A.6 Other Public Education**

SMC maintains a website that provides many resources for citizens, developers, engineers, and municipalities. The website includes pages such as "Citizens Assistance," "Watershed Planning," "Projects," "Best Management Practices," "Publications," "Press Releases," and "Links." These pages provide notices of upcoming meetings and ongoing projects, publications, allow for download of many SMC documents, and provide links to other NPDES Stormwater Program and BMP resources. In addition to the resources available through the website, SMC will make an educational presentation on IEPA's NPDES Stormwater Program available to Lake County MS4s.

*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.*

### **B. Public Participation/Involvement**

SMC will support Lake County MS4s by performing activities related to the Public Participation/Involvement minimum control measure, as described below.

#### **B.1 Public Panel**

SMC coordinates and conducts public meetings as well as committee meetings that include public representation. A monthly Stormwater Management Commission meeting is open to the public and involves the SMC Board of Commissioners, which includes six municipal representatives and six county board members.

The Technical Advisory Committee (TAC) was created in 1992 to assist in the development, review, and revision of the Watershed Development Ordinance (WDO) and the associated administrative policies and procedures. TAC is made up of representatives from the development, environmental, municipal, and consulting engineering fields. TAC meetings are held monthly or on an as-needed basis.

The Municipal Advisory Committee (MAC) is made up of municipal, township, drainage district, consulting firm, and county representatives. MAC has worked to discuss, coordinate, and collaborate on the implementation of IEPA's NPDES Municipal Stormwater Program. MAC will continue to meet as needed to assist Lake County MS4s with the implementation of IEPA's NPDES Municipal Stormwater Program.

The Watershed Management Board (WMB) meets annually to make recommendations on BMP project funding. Members include chief municipal elected officials, township supervisors, drainage district chairs, and county board members from each district within each of Lake County's four major watersheds.

*Measurable Goal(s): 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 stakeholders. Stakeholders may include municipalities, townships, drainage districts, homeowner associations, developers, county agencies, lakes management groups, landowners, and local, state, and federal agencies.

*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.*

### **B.6 Program Coordination**

The countywide approach that has been taken toward the implementation of IEPA's NPDES Municipal Stormwater Program in Lake County places SMC in the role of a Qualifying Local Program (QLP). In this role, SMC proactively formed the Municipal Advisory Committee (MAC) as a way to coordinate the efforts of Lake County MS4s during implementation of their stormwater management programs. SMC will continue to facilitate MAC meetings and will continue to provide general support to Lake County MS4s during implementation of their stormwater management programs. SMC will prepare an annual report on the QLP's 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 during Year 11.  
Prepare annual report on Qualifying Local Program activities at end of Year 11.*

## **C. Illicit Discharge Detection and Elimination**

SMC will support Lake County MS4s by performing activities related to the Illicit Discharge Detection and Elimination minimum control measure, as described below.

### **C.2 Regulatory Control Program**

SMC provided model ordinances for MS4s to consider at the local level. The language included in the model ordinances prohibits all non-stormwater discharges, including illegal dumping, to the storm sewer system. Additionally, the countywide WDO includes provisions that prohibit illegal discharges to the storm sewer system during construction.

*Measurable Goal(s): Continue to enforce the countywide WDO.*

### **C.10 Other Illicit Discharge Controls**

SMC sponsors and co-sponsors technical training workshops. SMC will sponsor or co-sponsor an illicit discharge detection and elimination workshop or other training workshop related to IEPA's NPDES Stormwater Program and track the number of attendees that attend the workshop.

*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.*

## **D. Construction Site Runoff Control**

Lake County has adopted a countywide Watershed Development Ordinance (WDO) that establishes the minimum stormwater management requirements for development in Lake County. The WDO, which is enforced by SMC, as well as by certified communities in Lake County, establishes standards for construction site runoff control. SMC will support Lake County MS4s in the implementation of the construction site runoff control minimum control measure by enforcing the WDO and performing other stormwater activities, as described below.

### **D.1 Regulatory Control Program**

The WDO has been adopted as the regulatory mechanism that requires erosion and sediment controls for construction activities in Lake County. The soil erosion and sediment control performance standards are included in Article IV, Section B.1.j. of the WDO. At a minimum, these standards apply to any development that hydrologically disturbs 5,000 square feet or more.

SMC has also created a Designated Erosion Control Inspector (DECI) program. The purpose of the program is to facilitate positive communication between the permit issuing agency, whether it be SMC or a certified community, and the permit holder, by creating a single point of contact for soil erosion and sediment control issues. Furthermore, the program is intended to improve site conditions, minimize environmental impacts, and educate contractors, developers, and inspectors about proper soil erosion and sediment control BMPs. The DECI



program was designed to closely mirror the inspection requirements of IEPA's General NPDES Permit No. ILR10.

*Measurable Goal(s): Continue to enforce the countywide WDO.*

*Administer the Designated Erosion Control Inspector (DECI) program outlined by the WDO.*

## **D.2 Erosion and Sediment Control BMPs**

Article IV, Section B.1.j of the WDO specifies the soil erosion and sediment control measures that must be used in conjunction with any land disturbing activity. This section of the WDO specifies soil erosion and sediment control BMPs including: minimize soil disturbance; protect adjoining properties from erosion and sedimentation; complete installation of soil erosion and sediment control features prior to commencement of hydrologic disturbance; stabilize disturbed areas within 7 days of active disturbance; avoid disturbance of streams whenever possible; use controls that are appropriate for the size of the tributary drainage area; protect functioning storm sewers from sediment; prevent sediment from being tracked onto adjoining streets; limit earthen embankments to slopes of 3H:1V; identify soil stockpile areas; and utilize statewide standards and specifications as guidance for soil erosion and sediment control.

SMC has also prepared a Technical Reference Manual (TRM) to accompany the WDO. The TRM is used to guide the creation of development plans that are in compliance with the provisions of the WDO and provides detailed information on the use of soil erosion and sediment control BMPs. The TRM is currently being updated to include guidance on wetland areas, public roadways, and ordinance administration and enforcement.

*Measurable Goal(s): Continue to enforce the countywide WDO.*

*Complete TRM update and work toward final approval and publication of the document.*

## **D.3 Other Waste Control Program**

The WDO includes provisions regarding the control of waste and debris at construction sites.

*Measurable Goal(s): Enforce WDO provisions regarding the control of waste and debris at construction sites.*

## **D.4 Site Plan Review Procedures**

Within each jurisdiction, one of the primary duties of the enforcement officer is to review all Watershed Development Permit applications and to issue permits for those projects that are in compliance with the provisions of the WDO. SMC provides training for all new enforcement officers and enforcement officers must pass an exam in order to be certified. SMC periodically reviews all certified communities' enforcement records and performance. Ongoing updates to the TRM include the addition of sections that discuss WDO administration and enforcement.

*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.*

#### **D.5 Public Information Handling Procedures**

SMC provides a number of opportunities for the receipt and consideration of information submitted by the public. SMC's Citizen Inquiry Response System (CIRS) documents and tracks the resolution of reported problems and citizen complaints. SMC's website provides information on "who to call" for various problems and concerns. An Interagency Coordination Agreement between SMC, the US Army Corps of Engineers, and the National Resources Conservation Service specifies that if any of these agencies receive a report of a soil erosion and sediment control issue, they will contact SMC. SMC will then investigate the report and prescribe corrective actions. This information is provided directly to the property owner. Where applicable, investigations are coordinated with certified communities.

*Measurable Goal(s): Track number of complaints received and processed related to soil erosion and sediment control.*

#### **D.6 Site Inspection/Enforcement Procedures**

Article VI of the WDO provides both the recommended and minimum requirements for site inspections. The enforcement officers within each certified community must conduct these site inspections; SMC is responsible for conducting site inspections in non-certified communities and on Lake County Division of Transportation (LCDOT) and Lake County Forest Preserve District (LCFPD) projects.

Article VII of the WDO specifies the penalties and legal actions that may be imposed if the WDO is violated. If a construction site is not in compliance with the requirements of the WDO, the enforcement officer may issue a stop work order on all development activity on the subject property or on the activities that are in direct violation of the WDO. In addition, failure to comply with any of the requirements of the WDO constitutes a violation, and any person convicted thereof may be fined.

*Measurable Goal(s): Track number of site inspections conducted by SMC.*

### **E. Post-Construction Runoff Control**

As described above, the Lake County Watershed Development Ordinance (WDO) establishes the minimum stormwater management requirements for development in Lake County. The WDO establishes standards for post-construction runoff control. These standards apply to any new development or redevelopment that results in over 0.5 acres of new impervious area. SMC will support Lake County MS4s in the implementation of the post-construction runoff control minimum control measure by enforcing the WDO and performing other stormwater activities, as described below.

#### **E.2 Regulatory Control Program**

The WDO requires all applicants to adopt a stormwater management strategy for controlling post-construction stormwater runoff. The applicant must develop a stormwater management

strategy that minimizes increases in stormwater runoff rates and volumes and addresses the water quality treatment requirements of the WDO. The proposed drainage plan must use the runoff reduction hierarchy included in the WDO and must implement BMPs in accordance with the guidance provided in the TRM.

*Measurable Goal(s): Continue to enforce the countywide WDO.*

### **E.3 Long Term O&M Procedures**

The WDO requires that a maintenance plan be developed for all stormwater management systems designed to serve major developments (as defined by the WDO). The maintenance plan must include: maintenance tasks; the party responsible for performing the maintenance tasks; a description of all permanent public or private access maintenance easements, overland flow paths, and compensatory storage areas; and a description of dedicated sources of funding for the required maintenance. The TRM includes a sample maintenance plan. The WDO also requires that all stormwater management systems be located within a deed or plat restriction to ensure perpetuity and access for maintenance.

*Measurable Goal(s): Continue to enforce the countywide WDO.*

### **E.4 Pre-Construction Review of BMP Designs**

Within each jurisdiction, one of the primary duties of the enforcement officer is to review all Watershed Development Permit applications and to issue permits for those projects that are in compliance with the provisions of the WDO. This includes a review of the BMPs that will be used for post-construction runoff control.

*Measurable Goal(s): Continue to enforce the countywide WDO.*

### **E.5 Site Inspections During Construction**

Article VI of the WDO provides both the recommended and minimum requirements for site inspections. The enforcement officers for each certified community must conduct these site inspections. Enforcement officers may inspect developments at any stage in the construction process. For major developments, the enforcement officer shall conduct site inspections, at a minimum, upon completion of installation of sediment and runoff control measures and after final stabilization and landscaping, prior to the removal of sediment controls.

*Measurable Goal(s): Continue to enforce the countywide WDO.*

### **E.6 Post-Construction Inspections**

Article VI of the WDO provides both the recommended and minimum requirements for site inspections. The enforcement officers for each certified community must conduct these site inspections. Enforcement officers may inspect developments at any stage of the construction process, including final stabilization and landscaping. For major developments, the enforcement officer shall conduct site inspections, at a minimum, upon completion of installation of sediment and runoff control measures and after final stabilization and landscaping, prior to the removal of sediment controls.

*Measurable Goal(s): Continue to enforce the countywide WDO.*

#### **E.7 Other Post-Construction Runoff Controls**

Through the Watershed Management Board (WMB), SMC provides partial funding for flood control and 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 project funding. Members of the WMB include chief municipal elected officials, township supervisors, drainage district chairs, 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 improved water quality in Lake County's streams, lakes, and wetlands and have enhanced existing stormwater management facilities.

*Measurable Goal(s): Conduct annual WMB meeting.  
Contribute funding to flood reduction and water quality improvement projects, including stormwater retrofits, through the WMB.*

#### **F. Pollution Prevention/Good Housekeeping**

SMC will support Lake County MS4s by performing activities related to the Pollution Prevention/Good Housekeeping minimum control measure.

##### **F.1 Employee Training Program**

SMC will assist MS4s with their employee training programs by incorporating recommended actions into the SMPP template. Additionally, SMC will serve as a technical advisor and as a clearinghouse of information related to employee training. SMC will sponsor or co-sponsor employee training workshops or events.

*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 software.*

##### **F.5 Flood Management/Assess Guidelines**

By adopted policy in the Lake County Stormwater Management Plan, SMC's standard operating procedure is to assess the feasibility of implementing water quality functions in all flood control designs. SMC will evaluate all SMC-sponsored projects for multi-objective opportunities.

*Measurable Goal(s): Track number of projects that are reviewed for multi-objective opportunities.*

## Part E5. QLP Construction Projects Conducted During Year 11

[illegible]

### Part F. MS4 Construction Projects Conducted During Year 11

[illegible]