

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
ANNUAL FACILITY INSPECTION REPORT
NPDES PERMIT FOR STORM WATER DISCHARGES
FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)**

Website address: <http://www.epa.state.il.us/water/permits/storm-water/forms/annual-facility-inspection-ms4.pdf>

Complete each section of this report.

REPORTING PERIOD FROM: MARCH, 2005	TO: MARCH 2006	ILR40 0517
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MS4 OPERATOR INFORMATION: (As it appears on the current permit)

NAME: Lake County		TELEPHONE NUMBER: 847-377-2234	
MAILING ADDRESS: 18 North County Street			
CITY: Waukegan	STATE: IL	ZIP: 60085	COUNTY: Lake
CONTACT PERSON: (Person responsible for Annual Report) Mr. Gary Gibson, Assistant County Administrator			

NAME(S) OF GOVERNMENTAL ENTITY(IES) IN WHICH MS4 IS LOCATED: (As it appears on the current permit)

Lake County, Illinois	

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 checked="" type="checkbox"/>	4. Construction Site Runoff Control	<input checked="" type="checkbox"/>
2. Public Participation/Involvement	<input checked="" type="checkbox"/>	5. Post-Construction Runoff Control	<input type="checkbox"/>
3. Illicit Discharge Detection & Elimination	<input checked="" 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.

SIGNATURE: 	DATE: 5/30/06
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Please submit inspection reports to:

Illinois Environmental Protection Agency, DWPC
Compliance Assurance Section
1021 North Grand Avenue East, POB 19276
Springfield, Illinois 62794-9276

Lake County, Illinois MS4 Annual Facility Inspection Report

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

Permit Year 3: March 2005 to March 2006

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Part A. Changes to Best Management Practices

Note: X indicates BMPs performed that were proposed in your NPDES permit
 ✓ indicates changes to BMPs proposed in your NPDES permit

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

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

Changes in BMPs and measurable goals performed in Year 3 are described below.

A.3.1 Public Service Announcement

Lake County will plan to air one or more public service announcements on the local cable access channel run by Lake County (LCTV). Citizen participation in preserving stormwater quality will be the focus.

Measurable Goals: Number and quality of PSA's aired. Public response and feedback to PSA's.

Status: Progress was not made on this goal last year although targeted for years 3-5. Maintain as a goal and target for years 4-5

B.1.1 Public Panel

Measurable Goals: Involvement on public panels. Number of meetings attended / degree of participation

Status: Representatives from the lake County Department of Planning, Building and Development and the Lake County Division of Transportation served on the SMC Technical Advisory Committee (12 meetings) and the SMC Municipal Advisory Committee (4 meetings) during Year 3. (This BMP was not originally included as a Year 3 commitment).

C.4.1 Illicit Discharge Tracing Procedures

Measurable Goals: Pilot activities used to identify illicit connections such as dry weather screening and targeted video inspection in support of IDDE program development.

Status: Consultant scope of work included reporting any unusual or illicit discharges observed during the data collection process associated with the storm sewer inventory conducted during Year 3. Data collection is 95% complete with no illicit discharges reported to date.

C.9.1 Public Notification

The Lake County Division of Transportation put in place during Year 2 informational stormwater inlet markings at a select number (5) of locations on the County highway system. These installations are intended to serve as test locations so that factors such as durability, visibility and effectiveness can be better evaluated in advance of installation on the entire County highway network.



New Test Installation (3) - 3/24/05



New Test Installation (1) - 3/24/05



Test Installation (3) – 13 months old



Test Installation (1) – 13 months old

Measurable Goals: Number and variety of installations. Exposure to a wide range of weather conditions and operational factors that will impact durability.

Status: Thermoplastic markings installed at five (5) different inlet locations. Thermoplastic markings inspected after 13 months (one snow and ice control season). Inspections revealed excessive wear from snow plows and traffic (See above photographs). Determination made that this is not an economical solution for system-wide implementation.

Preferred solution is that Lake County DOT will include the following special provision in all future contracts that include curb inlets on County Highway projects:

SECTION 604 **FRAMES AND GRATES – ENVIRONMENTAL NOTICE**

The following frames and grates/lids shall have an environmental notice prominently cast into the above- grade portion of the frame or grate/lid:

IDOT Type 1 (open) frame and lid
IDOT Type 8 grate
IDOT Type 11 frame and grate

IDOT Type 24 frames and grates shall be supplied with separate grey iron or ductile iron plates with an Environmental notice cast or engraved into them. The plates shall be installed flush in the curb head adjacent the Type 24 frame and grate when the curb is poured. The plates may be Neenah Foundry Company R-3000, East Jordan Iron Works, Inc. 7001PL1, or approved equal.

The environmental notice shall be “DUMP NO WASTE, DRAINES TO WATERWAYS” or similar wording.

This work will not be paid for separately, but shall be incidental to the drainage structure with frame and grate/lid specified.

This special provision went into effect for Lake County projects on 5/1/06.

D.2.2 Soil and Erosion Control Inspector’s Program

During Year 3, the Unified Development Ordinance was amended to include a soil and erosion control inspector’s program for projects exceeding 10 acres of hydrologic disturbance or exceeding 1 acre of hydrologic disturbance and has a Regulatory Floodplain, Isolated Waters of Lake county or Waters of the United States on-site or on adjoining property. The site development inspector acts as a private consultant hired by the applicant.

Measurable Goal(s), including frequencies: Number of projects requiring a site development inspector.

Status: New program in Year 3.

D.3.3 Construction Project Recycling

During Year 3, an intergovernmental agreement between Planning, Building and Development and the Solid Waste Agency of Lake County (SWALCO) went into effect for Planning, Building and Development to inform the developers of subdivisions and commercial projects to recycle construction waste. Thresholds for the agreement are as follows:

- Any proposed subdivision containing 5 or more lots (with 5 or more new homes) and,
- Any non-residential development, including additions, consisting of new floor area in the amount of 10,000 square feet or more.

Measurable Goal(s), including frequencies: number of applicants using the program.

Status: This is a new program in Year 3.

Part B. Status of Compliance with Permit Conditions

The status of BMPs and measurable goals performed in Year 3 is described below.

1. Public Education and Outreach

The MS4 committed to conduct Public Education and Outreach as part of its permit. Public Education and Outreach requires implementation of a program to distribute educational material to the community or conduct 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 stormwater runoff. The MS4 committed to implementation of BMPs related to A.1, A.2, A.3, and A.4. The status or progress for each of the measurable goals related to these BMPs is presented below.

A.1.1 Distributed Paper Material

MS4 will distribute publications received from SMC to local target groups.

Measurable Goals: Make available and distribute two manuals “A Citizen's Guide to Maintaining Stormwater Best Management Practices” and “Living with Wetlands: A Handbook for Homeowners in Northeastern Illinois” to local entities such as homeowners associations and stakeholder groups.

Status: Publications made available and distributed as described.

A.1.2 Distributed Paper Material

The Lake County Department of Planning, Building and Development will distribute educational materials on a variety of stormwater quality topics to targeted groups.

Measurable Goal(s), including frequencies: The Lake County Planning, Building and Development Department will make available and distribute the following publications to permit applicants, developers, homeowner groups and any other interested groups or individuals.

“Silt Fences & Straw Bale Barriers” – Erosion control best practices.

“Site Development Permits” – Natural resource issues related to site development.

“Wetlands” – General regulatory information as it relates to site development.

“Floodplains” – General regulatory information as it relates to site development.

“Soil Erosion & Sediment Control” – General regulatory information as it relates to site development.

“Septic Systems” – Site development requirements.

“Swales” – Site development requirements.

Status: Publications made available and distributed as described. During Year 3, one publication (“Septic Systems”) was revised.

A.1.3 Distributed Paper Material

The Lake County Health Department will distribute educational materials on a variety of stormwater quality topics to targeted groups.

Measurable Goal(s), including frequencies: The Lake County Health Department will make available and distribute the following publications related to natural resources and water quality management.

“Cattail Chronicles” – A quarterly newsletter published by the Lakes Management Unit of the Environmental Health Division of the Lake County Health Department dedicated to public education on water quality issues specific to Lake County.

“Wastewater News” – A biannual newsletter.

“Waterlines” – A water well newsletter targeting licensed well contractors.

“National Groundwater Awareness Week” – Since 1999 the Lake County Health Department has issues a press release and reduced water analysis fees for private well samples during this annual observance. In 2006, Lake County expanded the reduced-fee tests available and produced a pamphlet explaining common water testing parameters.

“National Recreational Water Illness Prevention Week” – New in 2006, the lake County Health Department is highlighting the value of healthy swimming and recreational water illness prevention.

“Private Water Well Testing” – Publication.

“Types of Wells in Lake County” – Publication.

“Frequently Asked Questions about Water Wells” – Publication.

“Well Chlorination Procedures” – Publication.

“Investigate Before You Invest in a Vacant Lot” – Publication.

“Investigate Before You Invest in a Home” – Publication.

“Wastewater Treatment and Dispersal by Onsite Wastewater Treatment Systems” – Publication.

Numerous water related press releases (*i.e. Reduce Outdoor Water Use During Drought*)

“Lake Reports” – An annual report issued by the Lakes Management Unit of the Environmental Health Division of the Lake County Health Department. Report contains detailed information on the environmental health of 32 different lakes in Lake County.

“Buffer Strips – Why they should be part of your shoreline” – Best management practices for planting and maintaining shoreline property.

Status: Publications made available and distributed as described.

A.2.1 Speaking Engagement

Lake County will make employees available for speaking engagements to groups of interested residents on stormwater related topics. This program will be administered by the Lake County Administrator’s Office.

Measurable Goal(s), including frequencies: The Lake County Communications Department will arrange to provide public speakers on stormwater related topics through it’s “Speakers Bureau”. These services are provided upon request from interested public groups. Speakers are Lake County employees and are selected based upon their expertise on a requested topic.

Status: During Year 3 of this program the Lake County Health Department Lakes Management Unit spoke with numerous public groups about stormwater runoff and lake quality. Over 100 lake reports are currently accessible via the Lake County Health Department website as well as other stormwater educational information. The Planning, Building and Development Department staff spoke at three (3) different organizational meetings.

The Lake County Stormwater Management Commission and the Lake Branch of the Chicago Metro Chapter of the American Public Works Association co-sponsored an educational seminar on 3/21/06 (Year 4) entitled *“Managing Snow and Ice Control Operations to Protect Water Quality”*. The Lake County Division of Transportation and the Lake County Health Department each gave presentations and participated in the discussion panel.

Lake and Surface Water Presentations Made in 2005-2006 by the Lake County Health Department:

- Lake study presentations to Slocum Lake, Loch Lomond, Cranberry Lake, Flint Lake, Bangs Lake, Lake Christa, Wooster Lake, Cedar Lake, Round Lake, Lochanora Lake, Cross Lake, Deep Lake, Lambs Farm Lake, East and West Loon lake, Summerhill Estates Lake, Youth Group of Waukegan.
- Wildlife and Water Quality presentation – Iowa Water Monitoring Conference, Ames, IA
- Land / Water Day workshop – Woodland Elementary School, Grayslake, IL
- Predicting and Identifying Environmental Factors presentation, Lake Forest College
- Wildlife and Water Quality presentation – Enhancing the States Lakes Conference, Chicago, IL
- Swimcast: Its Physical and Statistical Basis presentation – Great Lakes Beach Association, Green Bay, WI
- Lake County Lakes – Qualities, Changes and Threats presentation, Chicago Wilderness, Chicago, IL
- Northern Illinois Onsite Wastewater Conference and Tradeshow
- IEHA Annual Education Conference

A.3.1 Public Service Announcement

Lake County will plan to air one or more public service announcements on the local cable access channel run by Lake County (LCTV). Citizen participation in preserving stormwater quality will be the focus.

Measurable Goals: Number and quality of PSA's aired. Public response and feedback to PSA's.

Status: Progress was not made on this goal last year although targeted for year 3. Maintain as a goal and target for years 4-5

A.4.1 Community Event

A soil erosion and sediment control workshop will be sponsored by the QLP and conducted on a bi-annual basis. This workshop is geared toward developers, engineers, municipalities and enforcement officers. Lake County will participate in the bi-annual workshop.

Participate in local initiatives directed at improving water quality.

Measurable Goal(s): Participate in the bi-annual soil erosion and sediment control workshop. Participation in local efforts to improve water quality.

Status: Lake County participated in the bi-annual soil erosion and sediment control workshop sponsored by the QLP during Year 3.

2. Public Participation/Involvement

The MS4 committed to performing activities and services related to the Public Participation/Involvement minimum control measure under BMP numbers B.2, B.3, B.4, B.5, and B.7. The status or progress for each of the measurable goals related to these BMPs is presented below.

B.1.1 Public Panel

Measurable Goals: Involvement on public panels. Number of meetings attended / degree of participation

Status: Representatives from the lake County Department of Planning, Building and Development and the Lake County Division of Transportation Served on the SMC Technical Advisory Committee (12 meetings) and the SMC Municipal Advisory Committee (4 meetings) during Year 3.

B.3.1 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 MS4, the MS4 will publicize stakeholder meetings locally and participate by being represented at the stakeholder meetings.

Measurable Goals: Publicize and participate in relevant watershed planning committees and other stakeholder groups.

Status: On-going and active participation in watershed planning committees throughout Lake County during Year 3. Participated in the following local stakeholder initiatives during Year 3:

- Chicago Wilderness Aquatic Task Force
- Barrington Area Council of Governments (BACOG) – Water Quality Committee
- Member of the NIPC Water Supply Task Force and Water Quality Task Force for the 2002 NIPC Strategic Plan for Water Resource Management
- Lake County Framework Plan and Unified Development Ordinance Committees regarding water supplies and water quality
- Fremont Township Well Committee
- Indian Creek Watershed Committee
- Fish Lake Drain Watershed Committee
- Upper Des Plaines River Watershed Committee
- Flint Creek Watershed Committee
- Squaw Creek Watershed Committee
- Sequoit Creek Watershed Committee
- North Chicago Watershed Committee
- Waukegan River Watershed Committee
- ISD (Onsite Wastewater) Steering Committee
- Management entities for the following lakes in Lake County (Homeowners Associations, Villages and/or Townships:
 - Cedar Lake, Deep Lake, East Loon Lake, Cranberry Lake, Sullivan Lake, Little Silver Lake, West Loon Lake, Timber Lake (North), Cross Lake, Wooster Lake, Lake Zurich, Lake of the Hollow, Round Lake, Fourth Lake, Druce Lake, Countryside Glen Lake, Butler Lake, Bangs Lake, ADID 203, McGreal Lake, Lake Kathryn, Third Lake, Redhead Lake, Lake Minear, Salem Lake, Lake Miltmore, Fish Lake, Potomac Lake, Hendrick Lake, Duck Lake, Summerhill Estates Lake, Seven Acre Lake, Gray's Lake, White Lake, Bresen Lake, Waterford Lake, Diamond Lake, Lake Barrington, Lake Napa Suwe, Windward Lake, Fischer Lake, Dog Bone Lake, Long Lake, Tower Lake, Lake Linden, Lake Tranquility, North Churchill Lake, Island Lake, Highland Lake, Lake Fairview, Eagle Lake, Longview Meadow Lake, Bishop Lake, Hook Lake, Timber Lake (South), Buffalo Creek Reservoir, Mary Lee Lake, Dunn's Lake, Old Oak Lake, Echo Lake, Sand Lake, Stone Quarry Lake, Honey Lake, Lake Leo, Lambs Farm Lake, Pond-A-Rudy, Stockholm Lake, Lake Matthews, Flint Lake, Harvey Lake, Rivershire Pond 2, Antioch Lake, Lake Charles, Lake Naomi, Lake Christa, Redwing Marsh, West Meadow Lake, Nielsen Pond, Lake Holloway, College Trail Lake,

Lake Lakeland Estates, Crooked Lake, Hastings Lake, Werhane Lake, Big Bear Lake, Little Bear Lake, Loch Lomond, Columbus Park Lake, Sylvan Lake, Grandwood Park Lake, Lake Fairfield, East Meadow Lake, Lake Farmington, Lucy Lake, South Churchill Lake, Bittersweet Golf Course #13, Woodland Lake, Albert Lake, Fairfield Marsh, Lake Eleanor, Lake Louise, Lucky Lake, Lake Forest Pond, Leisure Lake, Countryside Lake, Gages Lake, Slocum Lake, Deer Lake Meadow Lake, ADID 127, IMC Lake, Liberty Lake, Oak Hills Lake, North Tower Lake, Forest Lake, Lochanora Lake, Hidden Lake, St. Mary's Lake, Valley Lake, Willow Lake.

- Lake County Forest Preserve Lakes (28 lakes)
- Illinois Department of Natural Resources (4 lakes)

B.4.1 Public Hearing

Lake County will meet its own requirements for conducting a variety of public meetings or hearings on issues that are related to stormwater quality.

Measurable Goal(s), including frequencies: The following types of public meetings or hearings are held regularly and often include agenda items that are related to stormwater quality

Lake County Board – The Lake County Board meets each month to conduct the business of Lake County. These meetings are open to the public and are broadcast on local cable television access. The County Board also has a number of working committees that members serve on which meet regularly and are also open to the public.

Zoning Board of Appeals – The Zoning Board of Appeals holds public hearings to consider applications for rezoning, conditional use permits and requests for variation and administrative appeals. All meetings of the Zoning Board of Appeals are open to the public.

Regional Planning Commission – The Regional Planning Commission is an advisory group to the Lake County Board on issues related to land development. The Commission meets twice monthly. All meetings of the Commission are open to the public.

Lake County Stormwater Management Commission – Lake County Board members comprise six of twelve representatives on this commission. The Commission has the responsibility for implementing the Comprehensive Stormwater Management Plan for Lake County which was previously adopted jointly by the Lake County Board and the Commission in 1990. The Commission meets monthly and all meetings are open to the public. The Lake County Stormwater Management Commission serves as the Qualifying Local Program (QLP) for this submittal.

Technical Advisory Committee / Lake County Stormwater Management Commission – This is a working committee of representative staff from local government and private development interests in Lake County. Lake County has representatives from its Department of Planning, Building and Development and Division of Transportation that serve on this committee. The Technical Advisory Committee meets once each month and all meetings are open to the public.

Status: Lake County has conducted and participated in regularly scheduled public meetings throughout Year 3 as described above.

B.5.1 Volunteer Monitoring

“Lake County Adopt-A-Highway Program”

Measurable Goal(s), including frequencies: Volunteer groups “adopt” a section of County Highway and agree to remove litter twice each year. Program is managed by the Lake County Division of Transportation.

Status: During Year 3 the lake County Division of Transportation enlisted 208 different volunteer groups to actively remove litter from the County Highway system.

3. Illicit Discharge Detection and Elimination

The MS4 committed to perform some activities related to the Illicit Discharge Detection and Elimination minimum control under BMP numbers C.1, C.2, C.3, C.5, and C.7. The status or progress for each of the measurable goals related to these BMPs is presented below.

C.1.1 Storm Sewer Map Preparation

Lake County will prepare an outfall map to allow for tracking of dry weather flow inspections and outfall maintenance. The Lake County Division of Transportation will start work on a program to inventory and locate all stormwater discharge points located on the County Highway System. This data will be stored in a GIS database for analysis and mapping use. Lake County is committed to working with other MS4's in Lake County to develop data collection standards that will foster data sharing and county-wide mapping.

Measurable Goals: Percentage of storm sewer outlets mapped. Quality and compatibility of data with other MS4's in Lake County. Verify outfalls in the field and give each outfall a unique identifier to be used to document inspections. Update map regularly as improvements or new developments occur.

Status: The Lake County Division of Transportation entered into a contract with a consultant to collect data on storm sewer assets and produce GIS map products during Year 3. This data collection effort included storm sewer outfalls, inlets and pipe segments as well as their associated attributes and locations (x-y coordinates). Approximately 95% of storm sewer network mapped in Year 3. Project completion anticipated early in Year 4.

C.2.1 Regulatory Control Program

Lake County will review, consider and adopt ordinance language to prohibit non-stormwater discharges to the storm sewer or drainage system and to provide an enforcement mechanism for the illicit discharge detection and elimination program. The Lake County Division of Transportation will impose applicable statutory authority as an additional enforcement mechanism when necessary to eliminate identified illicit discharges from the system.

Measurable Goals: Unified Development Ordinance language change. Begin development of IDDE program. Identify methods, activities, enforcement and schedule to identify and remove illicit discharges.

Status: Unified Development Ordinance amendments adopted during Year 3.

C.3.1 Detection/Elimination Prioritization Plan

USEPA requires MS4s to develop a plan to detect and address illicit discharges. The plan developed by the MS4 will be dependent on several factors, including available resources, size of staff, and degree and character of its illicit discharges. SMC has assembled various sources of information, including case studies, on illicit discharge detection and elimination programs throughout the U.S.

Measurable Goals: Review information provided by SMC on how to develop NPDES program. Review case studies of NPDES programs.

Status: Lake County has actively participated in the SMC sponsored Municipal Advisory Committee (MAC) meetings throughout Year 3. Illicit discharge detection planning and program development continues as a topic of discussion. Develop Illicit Discharge Detection and Elimination Plan in Year 4.

C.4.1 Illicit Discharge Tracing Procedures

Measurable Goals: Pilot activities used to identify illicit connections such as dry weather screening and targeted video inspection in support of IDDE program development.

Status: Consultant scope of work included reporting any unusual or illicit discharges observed during the data collection process associated with the storm sewer inventory conducted during Year 3. Data collection is 95% complete and no illicit discharges reported to date.

C.5.1 Illicit Source Removal Procedures

Solid Waste Agency of Lake County (SWALCO) holds household waste collection events in various communities throughout Lake County. These events can be used to collect waste before it enters the MS4's storm system through illicit dumping and also to publicize the MS4's illicit discharge detection and elimination plan.

Measurable Goal(s), including frequencies: Quantity and variety of waste materials collected. Public response to collection efforts.

Status: A total of thirteen (13) Household Chemical Waste Collection events were held in Year 3. Three (3) Electronics Collection events were held by the Solid Waste Agency of Lake County in Year 3 with a total of 217 tons of E-waste collected.

C.7.1 Visual Dry Weather Screening

Measurable Goals: Perform visual dry weather storm sewer outfall screening during verification for outfall map creation. Investigate citizen illicit discharge/illegal dumping hotline reports in the field.

Status: Consultant scope of work included reporting any unusual or illicit discharges observed during the data collection process associated with the storm sewer inventory conducted during Year 3. Data collection is 95% complete with no illicit discharges reported to date.

C.9.1 Public Notification

The Lake County Division of Transportation put in place during Year 2 informational stormwater inlet markings at a select number (5) of locations on the County highway system. These installations are intended to serve as test locations so that factors such as durability, visibility and effectiveness can be better evaluated in advance of installation on the entire County highway network.



New Test Installation (3) - 3/24/05



New Test Installation (1) - 3/24/05



Test Installation (3) – 13 months old



Test Installation (1) – 13 months old

Measurable Goals: Necessary ordinance revisions completed. Quantity and quality of public participation in the ordinance review process.

Status: This program item was completed in Year 3 and is in place.

D.2.1 Erosion and Sediment Control BMPs

Erosion and sediment control plans required for all regulated development.

Measurable Goal(s), including frequencies: Quality of approved erosion and sediment control site plans and BMPs incorporated. Degree of compliance with approved site plans during construction. Land area disturbed and length of time disturbed.

Status: This program is in place. The Lake County Department of Planning, Building and Development requires stormwater pollution prevention plans for all development requiring a site development permit. These plans are reviewed by staff prior to permit issuance and construction activity. Construction sites are monitored by environmental inspectors employed by the Department.

D.2.2 Soil and Erosion Control Inspector's Program

During Year 3, the Unified Development Ordinance was amended to include a soil and erosion control inspector's program for projects exceeding 10 acres of hydrologic disturbance or exceeding 1 acre of hydrologic disturbance and has a Regulatory Floodplain, Isolated Waters of Lake county or Waters of the United States on-site or on adjoining property. The site development inspector acts as a private consultant hired by the applicant.

Measurable Goal(s), including frequencies: Number of projects requiring a site development inspector.

Status: New program in Year 3.

D.3.1 Other Waste Control Program

The County of Lake is a member community in the Solid Waste Agency of Lake County which sponsors regular household chemical waste collection events throughout the county. Providing convenient means to the public for drop-off and disposal helps to keep these waste materials out of landfills and receiving streams.

Measurable Goal(s), including frequencies: Quantity and variety of waste materials collected. Public response to collection efforts.

Status: A total of thirteen (13) Household Chemical Waste Collection events were held in Year 3. Three (3) Electronics Collection events were held by the Solid Waste Agency of Lake County in Year 3 with a total of 217 tons of E-waste collected.

D.3.2 Other Waste Control Program

Lake County has in place a nuisance ordinance which prohibits junk and debris and junk vehicles from collecting on properties. Helps to keep waste materials out of receiving streams.

Measurable Goal(s), including frequencies: Number of violation notices posted. Number of properties cleaned up. Quality of response to complaints received.

Status: This program is in place.

D.3.3 Construction Project Recycling

During Year 3, an intergovernmental agreement between Planning, Building and Development and SWALCO went into effect for Planning, Building and Development to inform the developers of subdivisions and commercial projects to recycle construction waste. Thresholds for the agreement are as follows:

- Any proposed subdivision containing 5 or more lots (with 5 or more new homes) and,
- Any non-residential development, including additions, consisting of new floor area in the amount of 10,000 square feet or more.

Measurable Goal(s), including frequencies: number of applicants using the program.

Status: This is a new program in Year 3.

D.4.1 Site Plan Review Procedures

Site plan review

Measurable Goal(s), including frequencies: Conduct reviews of site plans for compliance with soil erosion and sediment control requirements and for incorporation of best management practices. Dedicate adequate and qualified staff to these review assignments.

Status: This program is in place. The Planning, Building and Development Department conducts detailed reviews of site plans for compliance with minimum soil erosion and sediment control measures and incorporation of best management practices as a step in the site development permit review process. Field inspections are conducted on a regular basis to ensure compliance. 758 Site Development Permits were issued and 2,957 site inspections were conducted by the Lake County Department of Planning, Building and Development during the twelve month reporting period from 3-15-05 to 3-15-06.

D.5.1 Public Information Handling Procedures

Establish procedures for processing information received from the public about active or proposed construction activities. Dedicate adequate trained staff to receive and process public inquiries or complaints.

Measurable Goal(s), including frequencies: Number of public inquiries processed. Public satisfaction with staff response.

Status: This program is in place. During Year 3 of the program, Lake County processed 119 complaints.

D.6.1 Site Inspection/Enforcement Procedures

Conduct construction site inspections.

Measurable Goal(s), including frequencies: Number of site inspections completed. Deficiencies noted and compliance achieved. Inspect critical construction sites monthly or after rain events greater than 0.5 inches.

Status: This program is in place. During Year 3 of the program, 2,957 site inspections were conducted by the Lake County Planning, Building and Development Department.

D.6.2 Site Inspection/Enforcement Procedures

The Lake County Division of Transportation will hold pre-construction meetings with the contractor to review site requirements and the soil erosion and sediment control plan for all highway improvement projects. The SMC field inspector will be invited to participate in these meetings.

Measurable Goal(s), including frequencies: Contractor compliance with plan requirements. Number of meetings held.

Status: Preconstruction meetings hosted for all projects in Year 3.

D.6.3 Site Inspection/Enforcement Procedures

The Lake County Department of Planning, Building and Development will hold pre-construction meetings with the contractor to review site requirements and the soil erosion and sediment control plan for all new subdivision developments. The site development field inspector will be invited and will participate in these meetings.

Measurable Goal(s), including frequencies: Contractor compliance with plan requirements.

Status: This program is in place. During Year 3 of the program, 35 pre-construction meetings were held.

D.7.1 Other Construction Site Run-off Controls

The Lake County Division of Transportation initiated a program to hire an engineering consultant to provide independent performance reviews of construction sites during the 2005 construction season. The consultant made a minimum of three (3) unannounced visits to each active jobsite during the season to review site compliance with the SWPPP, conduct an audit of record keeping associated with NPDES Phase II requirements and to evaluate the overall performance of the site BMP's and note any deficiencies in the SWPPP for correction or modification.

Measurable Goals: Number of site reviews conducted during the 2005 construction season, individual and collective jobsite compliance with NPDES Phase II performance measures, number of SWPPP deficiencies noted and corrected.

Status: Program implemented for Year 3 construction activities. Program will be kept in place for Year 4 construction activities. Educational program held for Resident Engineers at the start of the Year 4 (2006) construction season.

5. 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 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, in conjunction with other SMC activities and functions, implements BMPs under BMP numbers E.2, E.3, E.4, E.5 and E.6. The status or progress for each of the measurable goals related to these BMPs is presented below.

E.2.1 Regulatory Control Program

The adopted Watershed Development Ordinance minimum standards require that all applicants adopt a stormwater management strategy for controlling post-construction runoff. The applicant must develop a stormwater management strategy that minimizes the increase in runoff volumes and rates and addresses the water quality treatment requirements of the ordinance. The proposed drainage plan must use the runoff reduction hierarchy in the ordinance and implement BMPs as required. The ordinance also requires the use of buffers when adjacent to existing waterbodies.

Measurable Goal(s), including frequencies: Continue to enforce the existing ordinance.

Status: This program is in place. All disturbed areas must be stabilized before final approval of a project.

E.3.1 Long Term O&M Procedures

The adopted Watershed Development Ordinance minimum standards require that a maintenance plan be prepared for all stormwater management system components for Major Developments (as defined in the ordinance). The maintenance plan must include: maintenance tasks, the party responsible, a description of all permanent public or private access maintenance easements and overland flow paths and compensatory storage areas and a description of dedicated sources of funding for the required maintenance.

Measurable Goal(s), including frequencies: Continue to enforce the existing ordinance.

Status: This program is in place.

E.4.1 Pre-Construction Review of BMP Designs

A plan review is conducted for all soil erosion and sediment control plans submitted. This includes a review of the proposed BMPs for post-construction runoff control.

Measurable Goal(s), including frequencies: Continue to enforce the existing ordinance.

Status: This program is in place. During Year 3 of the program, 2,390 plan reviews were conducted.

E.5.1 Site Inspections During Construction

The adopted Watershed Development Ordinance provides both the recommended and the minimum requirements for site inspections. Enforcement officers may inspect a site development 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 removal of sediment controls.

Measurable Goal(s), including frequencies: Continue to enforce the existing ordinance.

Status: This program is in place. During Year 3 of the program, 2,957 site inspections were performed.

E.6.1 Post-Construction Inspections

The enforcement officer shall conduct post-construction inspections prior to the release of performance guarantees, maintenance guarantees or certificates of occupancy as provided for in the ordinance.

Measurable Goal(s), including frequencies: Continue to enforce the existing ordinance.

Status: This program is in place.

6. Pollution Prevention/Good Housekeeping

This minimum control measure involves the development and implementation of an operation and maintenance program to reduce the discharge of pollutants from municipal operations. This program must include a training program for municipal employees. The MS4 committed to perform activities for BMP numbers F.1, F.2, F.3, F.4, and F.6. The status or progress for each of the measurable goals related to these BMPs is presented below.

F.1.1 Employee Training Program

Lake County will develop a training program for employees. Any new training materials will be developed based on guidance that is widely available. Lake County will also evaluate and incorporate existing employee training programs into this program. The training program will be updated and expanded as Lake County continues to implement its stormwater management programs.

Measurable Goal(s), including frequencies: Develop employee training program specific to County operations and facilities. Conduct annual training for employees that will implement or utilize BMPs.

Status: Annual employee orientation and training is conducted for Snow and Ice Control operations of which facilities operation and maintenance is an important element. Employee training specific to BMP utilization for spill control did not occur in Year 3. Design and conduct employee spill control training in Year 4 upon adoption of the revised spill control plan.

F.2.2 Inspection and Maintenance Program

Develop and implement a spill prevention and control plan for Lake County-owned facilities.

Measurable Goal(s), including frequencies: Plan development, implementation and future updates.

Status: Lake County Division of Transportation is in the process of rewriting a spill control plan. A Risk Control Program Assessment was conducted in August of 2004 by Lake County for all of its facilities with several elements related to spill control. The recommendations contained within that assessment have been incorporated into a rewrite of the spill control plan. The revised spill control plan has been incorporated into the Division of Transportation Safety Manual which is currently being reviewed for adoption by the Executive Safety Committee. Final adoption and implementation is anticipated in Year 4.

F.3.1 Municipal Operations Storm Water Control

Storm sewer system and catch basin inspection and cleaning program.

Measurable Goal(s), including frequencies: Annually inspect 5% of system, and clean as needed.

Status: Annual routine maintenance performed on County-owned storm sewer system in year 3. Additional maintenance performed on those structures identified as requiring maintenance during the storm sewer data inventory conducted during Year 3.

F.3.2 Detention Basin Maintenance Program

The Lake County Division of Transportation inventoried County-owned detention basins in 2003-2004. These inventories include basin features such as outlet structures, emergency overflow spillways and basin type. GPS coordinates were collected for incorporation of these inventories into GIS database.

Basins inspected in 2003 by maintenance personnel and necessary maintenance work items completed. Prescriptive burns completed on two basins that incorporate prairie landscapes.

Measurable Goals: Annually inspect and perform necessary maintenance on all County-owned stormwater detention basins.

Status: Progress has been made on this BMP, originally targeted for years 2-5 of the program. Basins are inspected biannually by maintenance personnel with necessary maintenance performed.

F.4 Municipal Operations Waste Disposal

Municipal Operations Waste Disposal

Measurable Goal(s), including frequencies: Incorporate waste disposal procedures into the facilities programs described above in F.2.1 and F.2.2

Status: Waste disposal activities are contracted to private services. Lake County Division of Transportation is in the process of rewriting a spill control plan. A Risk Control Program Assessment was conducted in August of 2004 by Lake County for all of its facilities with several elements related to spill control. Implementation of those report recommendations is in process with adoption expected in Year 4.

F.6 Other Municipal Operations Controls

Street sweeping

Measurable Goal(s), including frequencies: Sweep all urban sections of the County Highway system 4 times per year.

Status: County Highway system urban sections (175 curbed lane miles) swept a minimum of four times in Year 3.

Part C. Information and Data Collection Results

Provide information and water quality sampling/monitoring data related to illicit discharge detection and elimination collected during the reporting period.

Year 3 activities related to illicit discharge detection and elimination consisted primarily of program planning efforts. Therefore, no information or data was collected during this period.

Part D. Summary of Year 4 Stormwater Activities

The following table summarizes the BMPs committed to for Year 4. Specific BMPs and measurable goals for Year 4 Stormwater Management Program development activities are presented in the sections following the table. Specific measurable goals for Year 5 will be described in the Year 4 Annual Report.

Note: X indicates BMPs committed to for Year 4.

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

1. Public Education and Outreach

The MS4 is committing to conduct Public Education and Outreach as part of its permit. Public Education and Outreach requires implementation of a program to distribute educational material to the community or conduct 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 stormwater runoff. The MS4 commits to implementation of BMPs related to A.1, A.2, A.3, and A.4 as described below.

A.1.1 Distributed Paper Material

MS4 will distribute publications received from SMC to local target groups.

Measurable Goals: Make available and distribute two manuals “A Citizen's Guide to Maintaining Stormwater Best Management Practices” and “Living with Wetlands: A Handbook for Homeowners in Northeastern Illinois” to local entities such as homeowners associations and stakeholder groups.

A.1.2 Distributed Paper Material

The Lake County Department of Planning, Building and Development will distribute educational materials on a variety of stormwater quality topics to targeted groups.

Measurable Goal(s), including frequencies: The Lake County Planning, Building and Development Department will make available and distribute the following publications to permit applicants, developers, homeowner groups and any other interested groups or individuals.

“Silt Fences & Straw Bale Barriers” – Erosion control best practices.

“Site Development Permits” – Natural resource issues related to site development.

“Wetlands” – General regulatory information as it relates to site development.

“Floodplains” – General regulatory information as it relates to site development.

“Soil Erosion & Sediment Control” – General regulatory information as it relates to site development.

“Septic Systems” – Site development requirements.

“Swales” – Site development requirements.

A.1.3 Distributed Paper Material

The Lake County Health Department will distribute educational materials on a variety of stormwater quality topics to targeted groups.

Measurable Goal(s), including frequencies: The Lake County Health Department will make available and distribute the following publications related to natural resources and water quality management.

“Cattail Chronicles” – A quarterly newsletter published by the Lakes Management Unit of the Environmental Health Division of the Lake County Health Department dedicated to public education on water quality issues specific to Lake County.

“Wastewater News” – A biannual newsletter.

“Waterlines” – A water well newsletter targeting licensed well contractors.

“National Groundwater Awareness Week” – Since 1999 the Lake County Health Department has issues a press release and reduced water analysis fees for private well samples during this annual observance. In 2006, Lake County expanded the reduced-fee tests available and produced a pamphlet explaining common water testing parameters.

“National Recreational Water Illness Prevention Week” – New in 2006, the lake County Health Department is highlighting the value of healthy swimming and recreational water illness prevention.

“Private Water Well Testing” – Publication.

“Types of Wells in Lake County” – Publication.

“Frequently Asked Questions about Water Wells” – Publication.

“Well Chlorination Procedures” – Publication.

“Investigate Before You Invest in a Vacant Lot” – Publication.

“Investigate Before You Invest in a Home” – Publication.

“Wastewater Treatment and Dispersal by Onsite Wastewater Treatment Systems” – Publication.

Numerous water related press releases (*i.e. Reduce Outdoor Water Use During Drought*)

“Lake Reports” – An annual report issued by the Lakes Management Unit of the Environmental Health Division of the Lake County Health Department. Report contains detailed information on the environmental health of 32 different lakes in Lake County.

“Buffer Strips – Why they should be part of your shoreline” – Best management practices for planting and maintaining shoreline property.

A.2.1 Speaking Engagement

Lake County will make employees available for speaking engagements to groups of interested residents on stormwater related topics. This program will be administered by the Lake County Administrator’s Office.

Measurable Goal(s), including frequencies: The Lake County Communications Department will arrange to provide public speakers on stormwater related topics through it’s “Speakers Bureau”. These services are provided upon request from interested public groups. Speakers are Lake County employees and are selected based upon their expertise on a requested topic.

Status: During Year 3 of this program the Lake County Health Department Lakes Management Unit spoke with numerous public groups about stormwater and lake quality. Over 100 lake reports are currently accessible via the Lake County Health Department website as well as other stormwater educational information. The Planning, Building and Development Department staff spoke at three (3) different organizational meetings.

The Lake County Stormwater Management Commission and the Lake Branch of the Chicago Metro Chapter of the American Public Works Association co-sponsored an educational seminar on 3/21/06 (Year 4) entitled “*Managing Snow and Ice Control Operations to Protect Water Quality*”. The Lake County Division of Transportation and the Lake County Health Department each gave presentations and participated in the discussion panel.

Lake and Surface Water Presentations Made in 2005-2006 by the Lake County Health Department:

- Lake study presentations to Slocum Lake, Loch Lomond, Cranberry Lake, Flint Lake, Bangs Lake, Lake Christa, Wooster Lake, Cedar Lake, Round Lake, Lochanora Lake, Cross Lake, Deep Lake, Lambs Farm Lake, East and West Loon lake, Summerhill Estates Lake, Youth Group of Waukegan.
- Wildlife and Water Quality presentation – Iowa Water Monitoring Conference, Ames, IA
- Land / Water Day workshop – Woodland Elementary School, Grayslake, IL
- Predicting and Identifying Environmental Factors presentation, Lake Forest College
- Wildlife and Water Quality presentation – Enhancing the States Lakes Conference, Chicago, IL
- Swimcast: Its Physical and Statistical Basis presentation – Great Lakes Beach Association, Green Bay, WI
- Lake County Lakes – Qualities, Changes and Threats presentation, Chicago Wilderness, Chicago, IL
- Northern Illinois Onsite Wastewater Conference and Tradeshow
- IEHA Annual Education Conference

A.3.1 Public Service Announcement

Lake County will plan to air one or more public service announcements on the local cable access channel run by Lake County (LCTV). Citizen participation in preserving stormwater quality will be the focus.

Measurable Goals: Number and quality of PSA’s aired. Public response and feedback to PSA’s.

A.4.1 Community Event

A soil erosion and sediment control workshop will be sponsored by the QLP and conducted on a bi-annual basis. This workshop is geared toward developers, engineers, municipalities and enforcement officers. Lake County will participate in the bi-annual workshop.

Participate in local initiatives directed at improving water quality.

Measurable Goal(s): Participate in the bi-annual soil erosion and sediment control workshop. Participation in local efforts to improve water quality.

2. Public Participation/Involvement

The MS4 will perform activities and services related to the Public Participation/Involvement minimum control measure. BMPs will be implemented under BMP numbers B.1, B.3, B.4, and B.5 as described below.

B.1.1 Public Panel

Measurable Goals: Representatives from the lake County Department of Planning, Building and Development and the Lake County Division of Transportation will continue to serve on the SMC Technical Advisory Committee (12 meetings) and the SMC Municipal Advisory Committee (4 meetings) during Year 4.

B.3.1 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 MS4, the MS4 will publicize stakeholder meetings locally and participate by being represented at the stakeholder meetings.

Measurable Goals: Publicize and participate in relevant watershed planning committees and other stakeholder groups. Participate in the following local stakeholder initiatives during Year 4:

- Chicago Wilderness Aquatic Task Force
- Barrington Area Council of Governments (BACOG) – Water Quality Committee
- Member of the NIPC Water Supply Task Force and Water Quality Task Force for the 2002 NIPC Strategic Plan for Water Resource Management
- Lake County Framework Plan and Unified Development Ordinance Committees regarding water supplies and water quality
- Fremont Township Well Committee
- Indian Creek Watershed Committee
- Fish Lake Drain Watershed Committee
- Upper Des Plaines River Watershed Committee
- Flint Creek Watershed Committee
- Squaw Creek Watershed Committee
- Sequoit Creek Watershed Committee
- North Chicago Watershed Committee
- Waukegan River Watershed Committee
- ISD (Onsite Wastewater) Steering Committee
- Management entities for the following lakes in Lake County (Homeowners Associations, Villages and/or Townships):
 - Cedar Lake, Deep Lake, East Loon Lake, Cranberry Lake, Sullivan Lake, Little Silver Lake, West Loon Lake, Timber Lake (North), Cross Lake, Wooster Lake, Lake Zurich, Lake of the Hollow, Round Lake, Fourth Lake, Druce Lake, Countryside Glen Lake, Butler Lake, Bangs Lake, ADID 203, McGreal Lake, Lake Kathryn, Third Lake, Redhead Lake, Lake Minear, Salem Lake, Lake Miltmore, Fish Lake, Potomac Lake, Hendrick Lake, Duck Lake, Summerhill Estates Lake, Seven Acre Lake, Gray’s Lake, White Lake, Bresen Lake, Waterford Lake, Diamond Lake, Lake Barrington, Lake Napa Suwe, Windward Lake, Fischer Lake, Dog Bone Lake, Long Lake, Tower Lake, Lake Linden, Lake Tranquility, North Churchill Lake, Island Lake, Highland Lake, Lake Fairview, Eagle Lake, Longview Meadow Lake, Bishop Lake, Hook Lake, Timber Lake (South), Buffalo Creek Reservoir, Mary Lee Lake, Dunn’s Lake, Old Oak Lake, Echo Lake, Sand Lake, Stone Quarry Lake, Honey Lake, Lake Leo, Lambs Farm Lake, Pond-A-Rudy, Stockholm Lake, Lake Matthews, Flint Lake, Harvey Lake, Rivershire Pond 2, Antioch Lake, Lake Charles, Lake Naomi, Lake Christa, Redwing Marsh, West Meadow Lake, Nielsen Pond, Lake Holloway, College Trail Lake, Lake Lakeland Estates, Crooked Lake, Hastings Lake, Werhane Lake, Big Bear Lake, Little Bear Lake, Loch Lomond, Columbus Park Lake, Sylvan Lake, Grandwood Park Lake, Lake Fairfield, East Meadow Lake, Lake Farmington, Lucy Lake, South Churchill Lake, Bittersweet Golf Course #13, Woodland Lake, Albert Lake, Fairfield Marsh, Lake Eleanor, Lake Louise, Lucky Lake, Lake Forest Pond, Leisure Lake, Countryside Lake, Gages Lake, Slocum Lake, Deer Lake Meadow Lake, ADID 127, IMC Lake, Liberty Lake, Oak Hills Lake, North Tower Lake, Forest Lake, Lochanora Lake, Hidden Lake, St. Mary’s Lake, Valley Lake, Willow Lake.

- Lake County Forest Preserve Lakes (28 lakes)
- Illinois Department of Natural Resources (4 lakes)

B.4.1 Public Hearing

Lake County will meet its own requirements for conducting a variety of public meetings or hearings on issues that are related to stormwater quality.

Measurable Goal(s), including frequencies: The following types of public meetings or hearings are held regularly and often include agenda items that are related to stormwater quality. Conduct and participate in regularly scheduled public meetings throughout Year 4 as described below:

Lake County Board – The Lake County Board meets each month to conduct the business of Lake County. These meetings are open to the public and are broadcast on local cable television access. The County Board also has a number of working committees that members serve on which meet regularly and are also open to the public.

Zoning Board of Appeals – The Zoning Board of Appeals holds public hearings to consider applications for rezoning, conditional use permits and requests for variation and administrative appeals. All meetings of the Zoning Board of Appeals are open to the public.

Regional Planning Commission – The Regional Planning Commission is an advisory group to the Lake County Board on issues related to land development. The Commission meets twice monthly. All meetings of the Commission are open to the public.

Lake County Stormwater Management Commission – Lake County Board members comprise six of twelve representatives on this commission. The Commission has the responsibility for implementing the Comprehensive Stormwater Management Plan for Lake County which was previously adopted jointly by the Lake County Board and the Commission in 1990. The Commission meets monthly and all meetings are open to the public. The Lake County Stormwater Management Commission serves as the Qualifying Local Program (QLP) for this submittal.

Technical Advisory Committee / Lake County Stormwater Management Commission – This is a working committee of representative staff from local government and private development interests in Lake County. Lake County has representatives from its Department of Planning, Building and Development and Division of Transportation that serve on this committee. The Technical Advisory Committee meets once each month and all meetings are open to the public.

B.5.1 Volunteer Monitoring

“Lake County Adopt-A-Highway Program”

Measurable Goal(s), including frequencies: Volunteer groups “adopt” a section of County Highway and agree to remove litter twice each year. Program is managed by the Lake County Division of Transportation.

3. Illicit Discharge Detection and Elimination

The MS4 will perform activities related to the Illicit Discharge Detection and Elimination (IDDE) minimum control. The majority of these activities will be related to IDDE program design. 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 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.

BMPs will be implemented under BMP numbers C.1, C.2, C.3, C.5, C.6, C.7, and C.9 as described below.

C.1.1 Storm Sewer Map Preparation

Measurable Goals: Lake County will prepare an outfall map to allow for tracking of dry weather flow inspections and outfall maintenance. The Lake County Division of Transportation will complete work on a program in Year 4 to inventory and locate all stormwater discharge points located on the County Highway System. This data will be stored in a GIS database for analysis and mapping use. Lake County is committed to working with other MS4's in Lake County to develop data collection standards that will foster data sharing and county-wide mapping.

C.2.1 Regulatory Control Program

Lake County will review, consider and adopt ordinance language to prohibit non-stormwater discharges to the storm sewer or drainage system and to provide an enforcement mechanism for the illicit discharge detection and elimination program. The Lake County Division of Transportation will impose applicable statutory authority as an additional enforcement mechanism when necessary to eliminate identified illicit discharges from the system.

Measurable Goals: Unified Development Ordinance language change is in place. Begin development of IDDE program. Identify methods, activities, enforcement and schedule to identify and remove illicit discharges.

C.3.1 Detection/Elimination Prioritization Plan

USEPA requires MS4s to develop a plan to detect and address illicit discharges. The plan developed by the MS4 will be dependent on several factors, including available resources, size of staff, and degree and character of its illicit discharges. SMC has assembled various sources of information, including case studies, on illicit discharge detection and elimination programs throughout the U.S.

Measurable Goals: Review information provided by SMC on how to develop NPDES program. Review case studies of NPDES programs. Participate in the SMC sponsored Municipal Advisory Committee (MAC) meetings throughout Year 4. Develop Illicit Discharge Detection and Elimination Plan in Year 4.

C.4.1 Illicit Discharge Tracing Procedures

Measurable Goals: Develop procedures to identify illicit connections such as dry weather screening and targeted video inspection in support of IDDE program development.

C.5.1 Illicit Source Removal Procedures

Solid Waste Agency of Lake County (SWALCO) holds household waste collection events in various communities throughout Lake County. These events can be used to collect waste before it enters the MS4's storm system through illicit dumping and also to publicize the MS4's illicit discharge detection and elimination plan.

Measurable Goal(s), including frequencies: Quantity and variety of waste materials collected. Public response to collection efforts.

C.5.2 Illicit Source Removal Procedures

The MS4 will implement a program and train employees to remove potential and known sources of illicit discharges.

Measurable Goals: Review example municipal employee IDDE training programs, such as Wayne County's (Detroit) found at website address:

<http://www.rougeriver.com/techttop/illicit/training/index.html>.

Begin to develop municipal employee IDDE training program. Consider targeting employees in relevant positions that will perform activities such as illicit discharge tracing procedures, visual dry weather storm water outfall screening and illicit source removal. Continue to advertise illicit discharge/illegal dumping hotline in local newsletter. Track hotline calls. Investigate suspicious reports in the field. (Depending upon level/type of implementation, related measurable goals could also be applied to C.7.). Create and distribute materials educating public about elements of IDDE program, such as illicit discharge/illegal dumping hotline, IDDE ordinance and SWALCO waste collection events. (Depending upon level/type of implementation, related measurable goals could also be applied to A.1 and/or A.4.) Contact SWALCO for relevant waste collection

events in your community. Coordinate with SWALCO to market waste collection events to the public and to distribute IDDE-related information during the event. Conduct event and document participation.

C.6.1 Program Evaluation and Assessment

Lake County will periodically evaluate and assess their IDDE program.

Measurable Goals: Collaborate and share information about IDDE program and results through MAC. Share ideas about common illicit discharges, enforcement methods, prevention methods and public education/outreach techniques.

C.7.1 Visual Dry Weather Screening

The MS4 will conduct dry weather screening to locate illicit discharges.

Measurable Goals: Develop and test dry weather visual screening procedures for future implementation as a component of the illicit discharge detection and elimination plan. Continue to investigate citizen illicit discharge / illegal dumping complaints in the field (“reactive investigation”).

C.9.1 Public Notification

The Lake County Division of Transportation put in place during Year 2 informational stormwater inlet markings at a select number (5) of locations on the County highway system. These installations are intended to serve as test locations so that factors such as durability, visibility and effectiveness can be better evaluated in advance of installation on the entire County highway network. Evaluate effectiveness of new special provision / standard for curb inlets on new construction.

Measurable Goals: Number of marked curb inlets in service. Quality and legibility of message provided on curb inlets.

4. Construction Site Runoff Control

Lake County has adopted a 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 the county, establishes standards for construction site runoff control. The enforcement of the WDO implements BMPs under BMP numbers D.1, D.2, D.3, D.4, D.5, D.6, and D.7 as described below.

D.1.1 Regulatory Control Program

Institute an effective local regulatory program for controlling runoff from construction sites. The Unified Development ordinance has been adopted by Lake County as the regulatory mechanism to require erosion and sediment controls for construction activities in unincorporated lake County. At a minimum, these standards apply to any development that hydrologically disturbs 5,000 square feet or more.

Measurable Goal(s), including frequencies: Local ordinance in place. Staff dedicated to enforcement of regulatory provisions. Number of site development permits issued. Number of site inspections conducted.

D.1.2 Regulatory Control Program

Lake County will revise the Unified Development Ordinance to incorporate the changes in minimum requirements made necessary by the proposed revisions to the SMC Watershed Development Ordinance. This will require that lake County open a public comment period and conduct a public meeting or public hearing on the proposed revisions.

Measurable Goals: Necessary ordinance revisions have been completed and implemented in Year 3. Degree of compliance with requirements of updated ordinance requirements.

D.2.1 Erosion and Sediment Control BMPs

Erosion and sediment control plans required for all regulated development.

Measurable Goal(s), including frequencies: Quality of approved erosion and sediment control site plans and BMPs incorporated. Degree of compliance with approved site plans during construction. Land area disturbed and length of time disturbed.

D.2.2 Soil and Erosion Control Inspector's Program

During Year 3, the Unified Development Ordinance was amended to include a soil and erosion control inspector's program for projects exceeding 10 acres of hydrologic disturbance or exceeding 1 acre of hydrologic disturbance and has a Regulatory Floodplain, Isolated Waters of Lake county or Waters of the United States on-site or on adjoining property. The site development inspector acts as a private consultant hired by the applicant.

Measurable Goal(s), including frequencies: Number of projects requiring a site development inspector. Degree of compliance with approved site plans during construction. Land area disturbed and length of time disturbed.

D.3.1 Other Waste Control Program

The County of Lake is a member community in the Solid Waste Agency of Lake County (SWALCO) which sponsors regular household chemical waste collection events throughout the county. Providing convenient means to the public for drop-off and disposal helps to keep these waste materials out of landfills and receiving streams.

Measurable Goal(s), including frequencies: Quantity and variety of waste materials collected. Public response to collection efforts.

D.3.2 Other Waste Control Program

Lake County has in place a nuisance ordinance which prohibits junk and debris and junk vehicles from collecting on properties. Helps to keep waste materials out of receiving streams.

Measurable Goal(s), including frequencies: Number of violation notices posted. Number of properties cleaned up. Quality of response to complaints received.

D.3.3 Construction Project Recycling

During Year 3, an intergovernmental agreement between Planning, Building and Development and SWALCO went into effect for Planning, Building and Development to inform the developers of subdivisions and commercial projects to recycle construction waste. Thresholds for the agreement are as follows:

- Any proposed subdivision containing 5 or more lots (with 5 or more new homes) and,
- Any non-residential development, including additions, consisting of new floor area in the amount of 10,000 square feet or more.

Measurable Goal(s), including frequencies: number of applicants using the program.

D.4.1 Site Plan Review Procedures

Site plan review

Measurable Goal(s), including frequencies: Conduct reviews of site plans for compliance with soil erosion and sediment control requirements and for incorporation of best management practices. Dedicate adequate and qualified staff to these review assignments. This program is in place. The Planning, Building and Development Department conducts detailed reviews of site plans for compliance with minimum soil erosion and sediment control measures and incorporation of best management practices as a step in the site development permit review process. Field inspections are conducted on a regular basis to ensure compliance.

D.5.1 Public Information Handling Procedures

Establish procedures for processing information received from the public about active or proposed construction activities. Dedicate adequate trained staff to receive and process public inquiries or complaints.

Measurable Goal(s), including frequencies: Number of public inquiries processed. Public satisfaction with staff response.

D.6.1 Site Inspection/Enforcement Procedures

Conduct construction site inspections.

Measurable Goal(s), including frequencies: Number of site inspections completed. Deficiencies noted and compliance achieved. Inspect critical construction sites monthly or after rain events greater than 0.5 inches.

D.6.2 Site Inspection/Enforcement Procedures

The Lake County Division of Transportation will hold pre-construction meetings with the contractor to review site requirements and the soil erosion and sediment control plan for all highway improvement projects. The SMC field inspector will be invited to participate in these meetings.

Measurable Goal(s), including frequencies: Contractor compliance with plan requirements.

D.6.3 Site Inspection/Enforcement Procedures

The Lake County Department of Planning, Building and Development will hold pre-construction meetings with the contractor to review site requirements and the soil erosion and sediment control plan for all new subdivision developments. The site development field inspector will be invited and will participate in these meetings.

Measurable Goal(s), including frequencies: Contractor compliance with plan requirements.

D.7.1 Other Construction Site Run-off Controls

The Lake County Division of Transportation initiated a program to hire an engineering consultant to provide independent performance reviews of construction sites during the 2005 construction season. The consultant made a minimum of three (3) unannounced visits to each active jobsite during the season to review site compliance with the SWPPP, conduct an audit of record keeping associated with NPDES Phase II requirements and to evaluate the overall performance of the site BMP's and note any deficiencies in the SWPPP for correction or modification. Extend this program through Year 4.

Measurable Goals: Number of site reviews conducted during the 2006 construction season, individual and collective jobsite compliance with NPDES Phase II performance measures, number of SWPPP deficiencies noted and corrected.

5. 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 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 under BMP numbers E.2, E.3, E.4, E.5 and E.6 as described below.

E.2.1 Regulatory Control Program

The adopted Watershed Development Ordinance minimum standards require that all applicants adopt a stormwater management strategy for controlling post-construction runoff. The applicant must develop a stormwater management strategy that minimizes the increase in runoff volumes and rates and addresses the water quality treatment requirements of the ordinance. The proposed drainage plan must use the runoff reduction hierarchy in the ordinance and implement BMPs as required. The ordinance also requires the use of buffers when adjacent to existing waterbodies.

Measurable Goal(s), including frequencies: Continue to enforce the existing ordinance. All disturbed areas must be stabilized before final approval of a project. Implementation of necessary BMP's.

E.3.1 Long Term O&M Procedures

The adopted Watershed Development Ordinance minimum standards require that a maintenance plan be prepared for all stormwater management system components for Major Developments (as defined in the ordinance). The maintenance plan must include: maintenance tasks, the party responsible, a description of all permanent public or private access maintenance easements and overland flow paths and compensatory storage areas and a description of dedicated sources of funding for the required maintenance.

Measurable Goal(s), including frequencies: Continue to enforce the existing ordinance.

E.4.1 Pre-Construction Review of BMP Designs

A plan review is conducted for all soil erosion and sediment control plans submitted. This includes a review of the proposed BMPs for post-construction runoff control.

Measurable Goal(s), including frequencies: Continue to enforce the existing ordinance.

E.5.1 Site Inspections During Construction

The adopted Watershed Development Ordinance provides both the recommended and the minimum requirements for site inspections. Enforcement officers may inspect a site development 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 removal of sediment controls.

Measurable Goal(s), including frequencies: Continue to enforce the existing ordinance.

E.6.1 Post-Construction Inspections

The enforcement officer shall conduct post-construction inspections prior to the release of performance guarantees, maintenance guarantees or certificates of occupancy as provided for in the ordinance.

Measurable Goal(s), including frequencies: Continue to enforce the existing ordinance.

6. Pollution Prevention/Good Housekeeping

This minimum control measure involves the development and implementation of an operation and maintenance program to reduce the discharge of pollutants from municipal operations. This program must include a training program for municipal employees. MS4s will perform BMPs under BMP number F.1, F.2, F.3, F.4 and F.6 described below.

F.1.1 Employee Training Program

Lake County will develop a training program for employees. Any new training materials will be developed based on guidance that is widely available. Lake County will also evaluate and incorporate existing employee training programs into this program. The training program will be updated and expanded as Lake County continues to implement its stormwater management programs.

Measurable Goal(s), including frequencies: Develop employee training program specific to County operations and facilities. Conduct annual training for employees that will implement or utilize BMPs. Design and conduct employee spill control training in Year 4.

F.2.1 Inspection and Maintenance Program

The MS4 will examine and subsequently alter their own actions to help ensure a reduction in 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.

Measurable Goals: Establish a schedule for street sweeping to reduce the amount of pollution (sand, salt, leaves, etc) that accumulates on streets, which has the potential to reach waterways as runoff. Implement street sweeping at established annual frequency and document. Establish a schedule for visual storm sewer inspection. Inspect storm sewers at established annual frequency and document. Schedule maintenance as needed. Develop and implement an operations and maintenance program for detention and water quality ponds to ensure that they are operating to maximize water quality benefits and detention storage. Include formal inspection schedule, inspection checklist and record-keeping procedures. (Depending upon level/type of implementation, related measurable goals could also be applied to F.4.) Continue to distribute educational materials on spill prevention and control procedures to all municipal facilities. (Depending upon level/type of implementation, related measurable goals could also be applied to F.4.)

F.2.2 Inspection and Maintenance Program

Develop and implement a spill prevention and control plan for Lake County-owned facilities.

Measurable Goal(s), including frequencies: Plan development, implementation and future updates. Final adoption and implementation is anticipated in Year 4.

F.3.1 Municipal Operations Storm Water Control

Storm sewer system and catch basin inspection and cleaning program.

Measurable Goal(s), including frequencies: Annually inspect 5% of system, and clean as needed.

F.3.2 Detention Basin Maintenance Program

The Lake County Division of Transportation inventoried County-owned detention basins in 2003-2004. These inventories include basin features such as outlet structures, emergency overflow spillways and basin type. GPS coordinates were collected for incorporation of these inventories into GIS database.

Basins inspected by maintenance personnel and necessary maintenance work items completed. Prescriptive burns completed on two basins that incorporate prairie landscapes.

Measurable Goals: Annually inspect and perform necessary maintenance on all County-owned stormwater detention basins.

F.4 Municipal Operations Waste Disposal

Municipal Operations Waste Disposal

Measurable Goal(s), including frequencies: Incorporate waste disposal procedures into the facilities programs described above in F.2.1 and F.2.2. Waste disposal activities are contracted to private services. Lake County Division of Transportation is in the process of rewriting a spill control plan with adoption expected in Year 4.

F.6 Other Municipal Operations Controls

Street sweeping

Measurable Goal(s), including frequencies: Sweep all urban sections (175 curbed lane miles) of the County Highway system 4 times per year.

Part E. Notice of Qualifying Local Program

The Lake County Stormwater Management Commission (SMC) will serve as a Qualifying Local Program (QLP) for MS4s in Lake County. As outlined in the General Permit, SMC will perform functions related to each of the six minimum control measures. Part E of the Annual Report, which outlines the activities performed by SMC as the Qualifying Local Program, consists of the following 5 subparts:

- **Part E1** summarizes and describes any changes to Best Management Practices (BMPs) originally outlined for Year 3 in the General Permit.
- **Part E2** describes the status of BMPs and measurable goals performed in Year 3.
- **Part E3** provides the results of information or data collected during Year 3.
- **Part E4** describes BMPs and measurable goals for the program for Year 4. Specific measurable goals for Year 5 will be developed in the Year 4 Annual Report.
- **Part E5** lists the construction projects funded by the QLP during Year 3 of the permit.

Part E1. Changes to Best Management Practices

Note: X indicates BMPs performed that were proposed in your NPDES permit
 ✓ indicates changes to BMPs proposed in your NPDES permit

Year 1	Year 2	Year 3	
QLP			
A. Public Education and Outreach			
X	X	X	A.1 Distributed Paper Material
			A.2 Speaking Engagement
X	X	X	A.3 Public Service Announcement
X	X	X	A.4 Community Event
	X	X	A.5 Classroom Education Material
X	X	X	A.6 Other Public Education
B. Public Participation/Involvement			
X	X	X	B.1 Public Panel
			B.2 Educational Volunteer
X	X	X	B.3 Stakeholder Meeting
			B.4 Public Hearing
			B.5 Volunteer Monitoring
X	X	X	B.6 Program Coordination
			B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination			
		X	C.1 Storm Sewer Map Preparation
X	X	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	X	X	C.10 Other Illicit Discharge Controls

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

There are no changes to report in BMPs and measurable goals performed in Year 3.

Part E2. Status of Compliance with Permit Conditions

The Lake County Stormwater Management Commission (SMC) will serve as a Qualifying Local Program for MS4s in Lake County. As part of ongoing services, SMC will perform functions related to each of the six minimum control measures. The status of BMPs and measurable goals performed in Year 3 are described below.

1. Public Education and Outreach

The SMC committed to conduct Public Education and Outreach as part of its ongoing countywide services. Public Education and Outreach requires implementation of a program to distribute educational material to the community or conduct 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 stormwater runoff. The SMC committed to implementation of BMPs related to A.1, A.3, A.4, A.5 and A.6. The status or progress for each of the measurable goals related to these BMPs is presented below.

A.1 Distributed Paper Material

Measurable Goals:

- Distribute informational materials from “take away” rack at SMC.
- Distribute materials to MS4s for local distribution.
- Develop or coordinate manuals or manual updates related to stormwater management.

Various NPDES II related information is available on SMC’s “take away” rack and on its website. This information is distributed to MS4s through mail-outs and in PDF format for use on MS4 websites. Nonpoint source pollution reduction messages are printed on over 2000 SMC envelopes. Three USEPA BMP brochures were printed and are available for MS4 distribution.

A.3 Public Service Announcement

Measurable Goals:

- Include public service announcement highlighting community accomplishments related to the NPDES Phase II process in “Mainstream” once annually.
- Post watershed identification signage with LCDOT.

A NPDES Phase II article was published in “Mainstream”. Forty new watershed identification road signs were installed in two watersheds.

A.4 Community Event

Measurable Goals: Co-sponsor Illicit Discharge Detection and Elimination workshop.

The American Public Works Association (APWA) and SMC co-sponsored the June 2005 workshop. Topics included: the development of an IDDE program, local case studies on IDDE program elements, septic system maintenance, and hazardous waste spill response.

A.5 Classroom Education

Measurable Goals: Provide vendor information and how-to information for MS4s interested in launching inlet stenciling program.

A municipal “how to” manual was developed and distributed to MS4s interested in implementing a storm drain stenciling program. SMC participated on the planning team for a storm drain decal effort in the Lake Michigan and North Branch watersheds, and provided text comments on door hangers that were distributed to homeowners along the stenciling routes

A.6 Other Public Education

Measurable Goals: Maintain and update the NPDES Phase II portion SMC website with resource materials such as model ordinances, case studies and brochures. Notify MS4s and public that the reorganized SMC reference library is open to them.

Website updates are continual. Additional NPDES II related information with reference materials and links is regularly forwarded to MS4s via email and website

Conducted a project tour of the Bull Creek stream restoration project in June 05 that included several EOs and municipal project engineers as well as press representatives, federal agency staff and private consultants. This project demonstrated a number of BMPs used to address in-stream and stream bank erosion.

2. Public Participation/Involvement

The SMC committed to performing activities and services related to the Public Participation/Involvement minimum control measure under BMP numbers B.1, B.3, and B.6. The status or progress for each of the measurable goals related to these BMPs is presented below.

B.1 Public Panel

Measurable Goals: Provide notice of public meetings on SMC website. Track number of meetings conducted.

Notice of all public meetings was provided by SMC on their website's calendar of events. SMC tracked the number of Stormwater Management Committee Board meetings, Technical Advisory Committee (TAC) meetings, and Watershed Management Board (WMB) meetings held during the 2005 fiscal year. According to records, there were 12 SMC meetings, 12 TAC meetings and 1 WMB meeting conducted during this period.

B.3 Stakeholder Meeting

Measurable Goals:

- 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 was provided by SMC on their website's calendar of events. SMC tracked the number of stakeholder meetings for the various committees held during the 2005 fiscal year. The list below provides the stakeholder meeting and number of occurrences during the 2005 fiscal year:

- North Branch Ecosystem Partnership BMP Selection Committee – 6
- North Branch Open Space Plan Committee – 3
- North Branch Flood Reduction Committee - 2
- North Branch Planning Committee – 6
- Newport Watershed Plan Stakeholder Planning Committee – 3
- Vernon Township Flood Damage Reduction Committee - 4
- Indian Creek – 1
- Bull's Brook/Bull Creek – 8
- Fish Lake Drain Watershed Plan Stakeholder Committee - 1
- Squaw Creek Watershed Plan Stakeholder Committee – 3
- Pekara Subdivision Flood Mitigation Project- 2
- Diamond Lake Drain Flood Mitigation Project- 2

B.6 Program Coordination

Measurable Goals:

- Track number of MAC meetings conducted during Year 3.
- Prepare draft report on Qualifying Local Program activities at end of Year 2.
- SMC will develop Qualifying Local Program measurable goals for Year 3.
- Assist MS4s in developing measurable goals for Year 3.

Seven Municipal Advisory Committee (MAC) meetings were held during Year 3 of the permit. The status of QLP activities at the end of Year 3 is provided in Part E2 of the Annual Facility Inspection Report (Annual Report) for each BMP which SMC committed to in the General Permit. The QLP measurable goals for Year 4 are in Part E4 of the Annual Report. Additionally, SMC provided a list

of suggested BMPs and measurable goals to MS4s during the January 2006 MAC meeting held at SMC headquarters.

3. Illicit Discharge Detection and Elimination

The SMC committed to provide some supporting functions to MS4s for meeting the Illicit Discharge Detection and Elimination minimum control under BMP numbers C.1, C.2 and C.10. The status or progress for each of the measurable goals related to these BMPs is presented below.

C.1 Storm Sewer Map Preparation

Measurable Goals: -Continue to amend countywide mapping protocols and distribute information to MS4s for use.

An ad hoc MAC committee was convened to develop the protocol, which was then widely distributed for comment and approval. The protocol is available on SMC's website.

C.2 Regulatory Control Program

Measurable Goals: -Provide MS4s with model ordinance examples for their consideration.

Model ordinances and on-line resources were provided.

C.10 Other Illicit Discharge Controls

Measurable Goals: -Track number of attendees to the Illicit Discharge Detention and Elimination workshop.

The June 2005 workshop was attended by over 120 public works professionals in and outside Lake County.

4. Construction Site Runoff Control

Lake County has adopted a 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 the county, establishes standards for construction site runoff control. The enforcement of the WDO, in conjunction with other SMC activities and functions, implements BMPs under BMP numbers D.1, D.2, D.3, D.4, D.5 and D.6. The status or progress for each of the measurable goals related to these BMPs is presented below.

D.1 Regulatory Control Program

Measurable Goals: -Continue to enforce the countywide WDO.
-Process WDO amendments for the inspection certification program.

SMC continues to enforce the countywide WDO. WDO amendments on the inspection certification program were adopted in January 2006.

D.2 Erosion and Sediment Control BMPs

Measurable Goals: -Continue to enforce the countywide WDO.
-Continue updates to the TRM as needed.

SMC continues to enforce the countywide WDO. TAC has reviewed and approved TRM updates. SMC continues to prepare TRM updates for other chapters to incorporate WDO amendments.

D.3 Other Waste Control Program

Measurable Goals: -Adopt WDO amendments for the control of waste and debris at construction sites.

Amendments were adopted in January 2006.

D.4 Site Plan Review Procedures

Measurable Goals:

- Track number of enforcement officers who have passed the exam.
- Track the number of enforcement officers who attend training sessions on WDO and TRM revisions.
- Track number of communities that undergo a performance review.

Six community assistance visits (performance reviews) initiated by IDNR-OWR were attended by SMC. Seventy-seven enforcement officers passed the exam.

D.5 Public Information Handling Procedures

Measurable Goals:

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

50 SE/SC complaints were received and processed.

D.6 Site Inspection/Enforcement Procedures

Measurable Goals:

- Track number of site inspections conducted by SMC.

Between March 2005 and March 2006, approximately 500 site inspections were conducted.

5. 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 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, in conjunction with other SMC activities and functions, implements BMPs under BMP numbers E.2, E.3, E.4, E.5, E.6 and E.7. The status or progress for each of the measurable goals related to these BMPs is presented below.

E.2 Regulatory Control Program

Measurable Goals:

- Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO. Approximately 40 violation notifications were resolved successfully between March 2005 and March 2006.

E.3 Long Term O&M Procedures

Measurable Goals:

- Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO which requires an operations and maintenance plan for all permitted stormwater/water quality treatment facilities. Staff members have enhanced maintenance information that is distributed throughout the County, and provide technical to Home Owners Associations. There are also WDO amendments designed to enhance post-development maintenance procedures.

E.4 Pre-Construction Review of BMP Designs

Measurable Goals:

- Continue to enforce the countywide WDO.
- Conduct annual WMB meeting and allocate funds for in-the-ground BMPs.

SMC continues to enforce the countywide WDO. SMC continues to add to its technical reference library, additional BMP technology as it becomes available.

E.5 Site Inspections During Construction

Measurable Goals:

- Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO, which requires inspections at prescribed points during development. There are WDO amendments designed to enhance inspection criteria were adopted.

E.6 Post-Construction Inspections

Measurable Goals: -Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO. Post-construction inspections are conducted on an as-needed basis.

E.7 Other Post-Construction Runoff Controls

Measurable Goals: -Conduct annual WMB meeting.
-Contribute funding to water quality improvement projects, including BMP retrofits, through the WMBs.

The annual WMB meeting was held on December 7, 2005. There were 9 BMP construction projects approved for WMB funding. Part E5 contains a complete list of all projects.

6. Pollution Prevention/Good Housekeeping

This minimum control measure involves the development and implementation of an operation and maintenance program to reduce the discharge of pollutants from municipal operations. This program must include a training program for municipal employees. SMC committed to assist the MS4s with BMP number F.1 and perform services related to BMP number F.5. The status or progress for each of the measurable goals related to these BMPs is presented below.

F.1 Employee Training Program

Measurable Goals: -Provide links to available resources on website.

SMC continually passes along information on training opportunities and resources to MS4's.

F.5 Flood Management/Assess Guidelines

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

There were 20 SMC sponsored multi-objective projects reviewed.

Part E3. Information and Data Collection Results

Year 3 activities consisted primarily of permit program planning efforts. Therefore, no information or monitoring data was collected during this period.

Part E4. Summary of Year 4 Stormwater Activities

The table shown below summarizes the BMPs committed to for Year 4. Specific BMPs and measurable goals for Year 4 program development activities are presented in the sections following the table. Specific measurable goals for Year 5 will be described in the Year 4 Annual Report.

Note: X indicates BMPs committed to for Year 4.

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

1. Public Education and Outreach

The SMC will conduct Public Education and Outreach as part of its ongoing countywide services. Public Education and Outreach requires implementation of a program to distribute educational material to the community or conduct 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 stormwater runoff. BMPs will be implemented related to BMP numbers A.1, A.3, A.4 and A.6.

A.1 Distributed Paper Material

The SMC develops and distributes a variety of materials related to stormwater management in Lake County. A number of pamphlets and brochures related to BMPs and stormwater management have been produced. SMC prepares a quarterly newsletter, "Mainstream" as well as an Annual Report that highlights the stormwater management activities in Lake County. SMC also prepares Project Fact Sheets that provide information on ongoing and recently completed stormwater management projects. SMC will develop or collaborate on manuals or manual updates related to stormwater management.

Measurable Goals:

- Distribute informational materials from "take away" rack at SMC.
- Distribute materials to MS4s for local distribution.

A.3 Public Service Announcement

A public service announcement related to the NPDES Phase II program will be written and included in the Quarterly Newsletter, "Mainstream." SMC will coordinate with Lake County Department of Transportation (LCDOT) to post watershed identification signage in watersheds where watershed planning activities occur.

Measurable Goals:

- Include public service announcement highlighting community accomplishments related to the NPDES Phase II process in "Mainstream" once annually.
- Post watershed identification signage with LCDOT.

A.4 Community Event

The SMC sponsors technical training and public awareness workshops. SMC and the local APWA chapter will co-sponsor a workshop on snow and ice removal management practices to protect water quality. The audience for the workshop will be decision makers with snow and ice removal management responsibilities.

Measurable Goals:

- Co-sponsor Snow and Ice Removal workshop.

A.6 Other Public Education

The SMC operates 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, allow for download of many SMC documents, and provide links to other NPDES II and BMP resources. SMC will make its reference library available to the public.

Measurable Goals:

- Maintain and update the NPDES Phase II portion SMC website with resource materials such as model ordinances, case studies and brochures.
- Notify MS4s and public that the reorganized SMC reference library is open to them.

2. Public Participation/Involvement

The SMC will support Lake County MS4s by performing activities and services related to the Public Participation/Involvement minimum control measure. BMPs will be implemented under BMP numbers B.1, B.3, and B.6 as described below.

B.1 Public Panel

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

The Technical Advisory Committee (TAC) was started in 1992 to assist in the development, revision and review of the Watershed Development Ordinance (WDO) standards and administrative procedures. TAC is made up of representatives from the development, environmental, municipal and consultant 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 and county representatives. The MAC will continue to meet as needed during the implementation of the NPDES Phase II stormwater management program.

The Watershed Management Boards (WMBs) meet yearly 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 the boundaries of the watersheds.

Measurable Goals:

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

B.3 Stakeholder Meeting

The 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 Goals:

- 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 to NPDES Phase II Permitting Summary identifies the role of SMC as a Qualifying Local Program. The SMC proactively formed the Municipal Advisory Committee (MAC) to facilitate coordination of the NPDES Phase II stormwater program in Lake County. SMC also prepared a presentation that can be used by municipal representatives to inform their board members about the NPDES II program and how it will be implemented in Lake County through existing local resources and programs. SMC will continue to coordinate the program and provide guidance for the regulated MS4s by continuing to facilitate MAC meetings through the program implementation phase. SMC will prepare a draft report on the Qualifying Local Program activities and provide guidance to MS4s in preparing their annual reports. SMC will also provide assistance to develop detailed measurable goals for each subsequent year of the program.

Measurable Goals:

- Track number of MAC meetings conducted during Year 4.
- Prepare draft report on Qualifying Local Program activities at end of Year 4.
- SMC will develop Qualifying Local Program measurable goals Year 5.
- Assist MS4s in developing measurable goals for Year 5.

3. Illicit Discharge Detection and Elimination

The SMC will provide some supporting functions to MS4s for meeting the Illicit Discharge Detection and Elimination minimum control.

C.10 Other Illicit Discharge Controls

SMC will assist MS4s in developing their Illicit Discharge Detection and Elimination program by sponsoring a workshop that will provide information to field supervisors and small municipal programs regarding locating and eliminating illicit discharges to storm sewers, requirements of an illicit discharge detection and elimination plan, and case studies of design and development of such plans.

Measurable Goals: -Track number of attendees to the Illicit Discharge Detection and Elimination workshop.

4. Construction Site Runoff Control

Lake County has adopted a 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 the county, establishes standards for construction site runoff control. The enforcement of the WDO, in conjunction with other SMC activities and functions, implements BMPs under BMP numbers D.1, D.2, D.3, D.4, D.5, and D.6 as described below.

D.1 Regulatory Control Program

The WDO has been adopted as the regulatory mechanism to require erosion and sediment controls for construction activities in Lake County. The soil erosion and sedimentation 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 is initiating a Designated Inspector Program, which originated out of an assessment of WDO implementation. The Designated Inspector Program will result in a higher level of coordination for permitting and development of an internal (SMC) implementation plan to address WDO revisions, such as improvement of protocols and clarification of follow-up activities. The program will be updated to emphasize remediation of non-conformance issues instead of punishment.

Measurable Goals: -Continue to enforce the countywide WDO.
-Initiate and administer the Designated Inspector Program as outlined by the WDO.

D.2 Erosion and Sediment Control BMPs

Article IV, Section B.1.j of the WDO specifies the required soil erosion and sediment control measures for any land disturbance activity. This section of the WDO includes 15 requirements for soil erosion and sediment control measures 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 14 days of active disturbance; avoid disturbance of streams and when possible, size measures appropriate to the amount of 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.

The SMC has also prepared the Technical Reference Manual (TRM) for the WDO. The TRM is used to guide compliance with the WDO and provides detailed information on soil erosion and sedimentation control BMPs.

Measurable Goals: -Continue enforcement of the countywide WDO.
-Continue updates to the TRM as needed.

D.3 Other Waste Control Program

The SMC will adopt WDO amendments to include the control of waste and debris at construction sites.

Measurable Goals: -Adopt WDO amendments for 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 Applications and 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. Additionally, SMC develops and provides enforcement officer training sessions on WDO and TRM revisions. SMC periodically reviews all certified communities' Ordinance enforcement records and performance.

- Measurable Goals:*
- Track number of enforcement officers who have passed the exam.
 - Track the number of enforcement officers who attend training sessions on WDO and -TRM revisions.
 - Track number of communities that undergo a performance review.

D.5 Public Information Handling Procedures

The SMC provides a number of opportunities for receipt and consideration of information submitted by the public. The 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 or concerns. An Interagency Coordination Agreement between SMC and the U.S. Army Corps of Engineers, the Lake County Soil and Water Conservation District 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 action to the property owner or coordinate with the certified community to find a solution.

- Measurable Goals:*
- 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 the minimum requirements for site inspection. Site inspections must be conducted by the enforcement officers within each certified community. Article VII of the WDO specifies the penalties and legal action that may be imposed if the WDO is violated. If a construction site is not in compliance with the requirements of the WDO, the jurisdictional enforcement officer may issue a stop work order on all development activity on the subject property or on the portion of the activity 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 Goals:*
- Track number of site inspections conducted by SMC.

5. 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 site runoff control. These standards apply to any new development or redevelopment that results in over 0.5 acres of new impervious area. The enforcement of the WDO, in conjunction with other SMC activities and functions, implements BMPs under BMP numbers E.2, E.3, E.4, E.5, E.6 and E.7 as described below.

E.2 Regulatory Control Program

The WDO requires that all applicants adopt a stormwater management strategy for controlling post-construction runoff. The applicant must develop a stormwater management strategy that minimizes the increase in runoff volumes and rates and addresses the water quality treatment requirements of the WDO. The proposed drainage plan must use the runoff reduction hierarchy in the WDO and implement BMPs as presented in the TRM. The WDO also requires the use of buffers when adjacent to existing water bodies.

- Measurable Goals:*
- Continue to enforce the countywide WDO.

E.3 Long Term O&M Procedures

The WDO requires that a maintenance plan be prepared for all stormwater management system components for Major developments (as defined by the WDO). Enforcement officers may require maintenance plans to be prepared for all development sites that require a NPDES permit. 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 and 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 Ordinance also requires that all stormwater management systems be located and described within a deed or plat restriction to ensure perpetuity and access for maintenance.

Measurable Goals: -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 Applications and issue permits for those projects that are in compliance with the provisions of the WDO. This includes a review of the proposed BMPs for post-construction runoff control.

Measurable Goals: -Continue to enforce the countywide WDO.
-Conduct annual WMB meeting and allocate funds for in-the-ground BMPs.

E.5 Site Inspections During Construction

Article VI of the WDO provides both the recommended and the minimum requirements for site inspection. These inspections must be conducted by the enforcement officers for each certified community. Enforcement officers may inspect site development 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 removal of sediment controls.

Measurable Goals: -Continue to enforce the countywide WDO.

E.6 Post-Construction Inspections

(See description of the inspection program provided under E.5)

Measurable Goals: -Continue to enforce the countywide WDO.

E.7 Other Post-Construction Runoff Controls

Through the Watershed Management Boards (WMBs), SMC reviews and partially funds projects related to drainage and water quality improvements. The WMBs – representing the Lake Michigan, North Branch of the Chicago River, Fox and Des Plaines watersheds – meet yearly to make recommendations on project funding. Members include chief municipal elected officials, township supervisors, drainage district chairs, and county board members from each district within the boundaries of the watershed. The goal of the WMBs is to maximize opportunities for local units of government and other groups to have input and influence in local stormwater management problem solving. Projects have improved quality of water in streams and swales, and have enhanced stormwater facilities.

Measurable Goals: -Conduct annual WMB meeting.
-Contribute funding to water quality improvement projects, including BMP retrofits, through the WMBs.

6. Pollution Prevention/Good Housekeeping

This minimum control measure involves the development and implementation of an operation and maintenance program to reduce the discharge of pollutants from municipal operations. This program must include a training program for municipal employees. SMC will assist the MS4s with BMP number F.1 and perform services related to BMP numbers F.5.

F.1 Employee Training Program

The SMC will assist MS4s in developing programs for F.1 by serving as technical advisors and as a clearinghouse of information related to employee training BMPs.

Measurable Goals: -Provide links to available resources on website.

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

Part E5. Construction Projects Conducted During Year 3

Project Name	Project Size (acres)	Construction Start Date	Construction End Date
STAG - Lake Zurich Detention Pond Retrofit	5	Winter 2004	Spring 2005
STAG – Ethel’s Woods Wetland Restoration	60	Fall 2004	Summer 2006
STAG – Grandwood Park Lake Restoration	1	Spring 2004	Summer 2005
WMB - Country Club Meadows Site Restoration	34	Spring 2005	Fall 2005
WMB - Farmington Green Detention Restoration	1	Spring 2005	Fall 2005
WMB - Wadsworth Lake Enhancement	1	Spring 2005	Fall 2005
WMB - Mallard Ridge Detention/Flood Mitigation Enhancements	1	Spring 2005	Spring 2006
WMB - West Shore Creek Rehabilitation	1	Spring 2005	Fall 2005
WMB - Tantara Detention Bank Stabilization	1	Spring 2005	Spring 2006
WMB - Blodgett & Birch Drainage Improvement	1	Spring 2005	Fall 2005
WMB - Bull Creek (LM) Restoration and Stabilization	5	Fall 2004	Fall 2005
WMB - Apple Country Wetland Restoration	8	Spring 2005	Spring 2006
WMB - Del Mar Woods Compensatory Storage Basin	6	Spring 2004	Spring 2006
NB- Water Quality & Flood Hazard Improvements (Deerpath Ponds)	5	Fall 2005	Spring 2006
NB- West Fork Restoration	2	Summer 2005	Fall 2005
NB- Deerfield High School Drainageway & Woodland Enhancement	1	Winter 2006	Spring 2006
NB- Foss Park District Golf Course Pond Buffer Zone	2	Summer 2005	Spring 2006
NB- Skokie River Stabilization & Sedimentation Control Project @ Deerpath Golf Course - Phase 2	5	Fall 2005	Summer 2006
NB- Middle Fork Tributary Restoration	10	Fall 2005	Spring 2006
NB- Amhurst Lake Business Park Ponds Restoration	7	Winter 2006	Spring 2006

