

CITY OF BATAVIA

100 North Island Avenue, Batavia, Illinois 60510-1930

Phone: (630) 879-1424 Fax: (630) 879-0710

Website: www.cityofbatavia.net

JEFFERY D. SCHIELKE
Mayor

M. HANNAH VOLK
City Clerk



WILLIAM R. McGRATH
City Administrator

RANDALL R. RECKLAUS
Assistant City Administrator

JOHN S. NOBLE
City Attorney

May 09, 2005

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Permit Section
P.O. Box 19276
Springfield, IL 62794-9276

Subject: National Pollutant Discharge Elimination System, Phase II
City of Batavia 2004-2005 Annual Inspection Report

Dear Sir or Madam,

Attached is the Phase II NPDES Annual MS4 Facility Inspection Report for the City of Batavia that covers the period from March 2004 to March 2005.

Please call me at (630) 879-1424, ext. 414 or e-mail me at sscheffel@cityofbatavia.net if you have any questions about this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven K. Scheffel".

Steven K. Scheffel, P.E., CFM
Assistant City Engineer

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

Complete each section of this report.

REPORT PERIOD:	FROM: MARCH 2004	TO: MARCH 2005
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MS4 OPERATOR INFORMATION: (As it appears on the current permit)

NAME: City of Batavia	TELEPHONE NUMBER: (630) 879-1424	
MAILING ADDRESS: 100 North Island Avenue		
CITY: Batavia	STATE: Illinois	ZIP: 60510-1930
CONTACT PERSON: Steve Scheffel, City of Batavia Engineering Department (Person responsible for Annual Report)		

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

Kane County	
DuPage County	

THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. CHANGES TO BEST MANAGEMENT PRACTICES (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

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

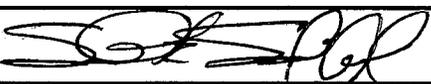
B.
Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum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

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

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

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

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

SIGNATURE: 	DATE: 05/09/2005
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Information required by this form must be provided to comply with 415 ILCS 5/39 (1996). Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

Item B: - Status of Compliance With Permit Conditions

Permit Condition: BMP No. A6: Public Education and Outreach: Other Public Education

The City of Batavia proposes to develop a database of all property owners that abut and include local streams. Best Management Practice information will be mailed and otherwise made available to these property owners to help them in preserving and maintaining the riparian areas along the streams. The City will offer assistance and educational programs toward this end also. The City's plan to acquire GIS capabilities will improve future implementation of this program.

Measurable Goal(s), including frequencies: Goals will include timelines for completion of the property owner database, mailings, and other educational programs.

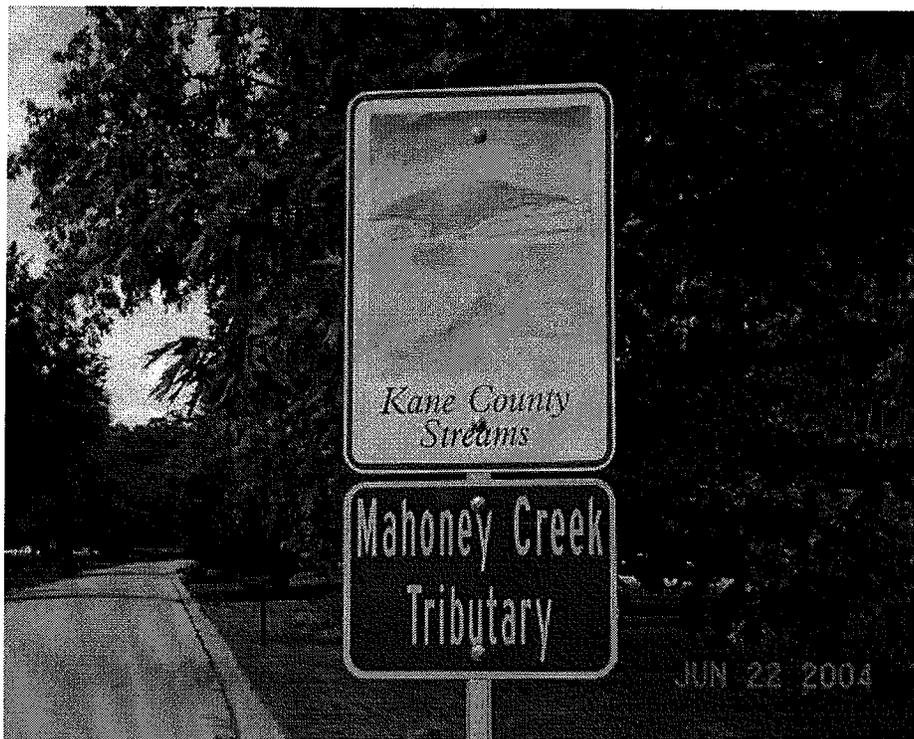
Milestones:

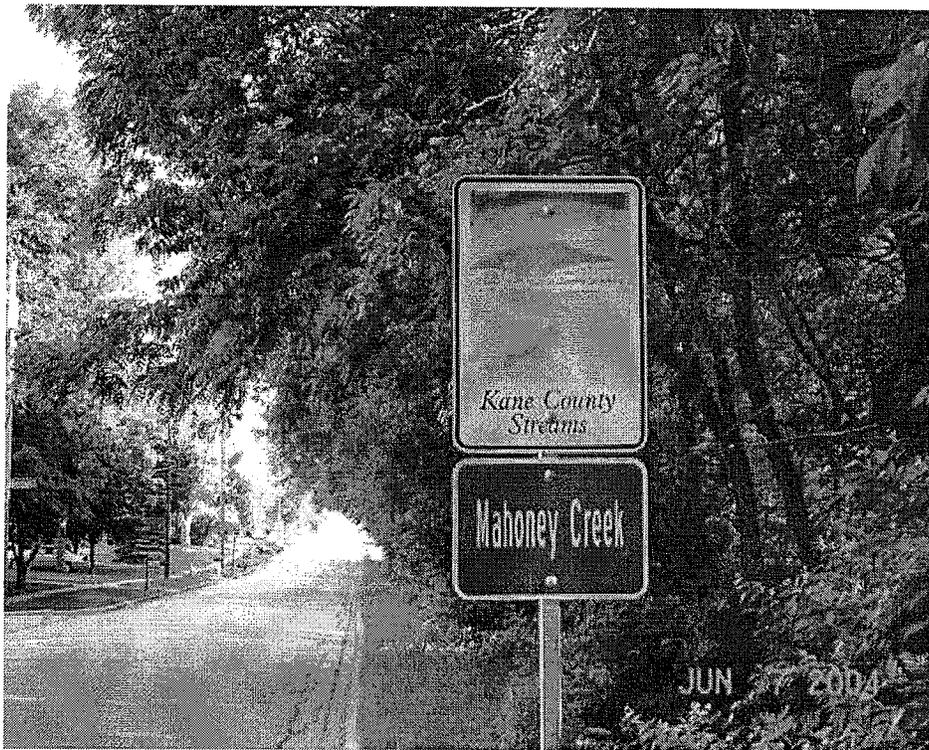
- Year 1:** Complete property owner database.
- Year 2:** Complete initial contact and mailing.
- Year 3:** Hold an educational seminar for property owners. Have experts in riparian area management give presentations, etc.
- Year 4:** Complete GIS integration of property owner database.

Compliance Activities:

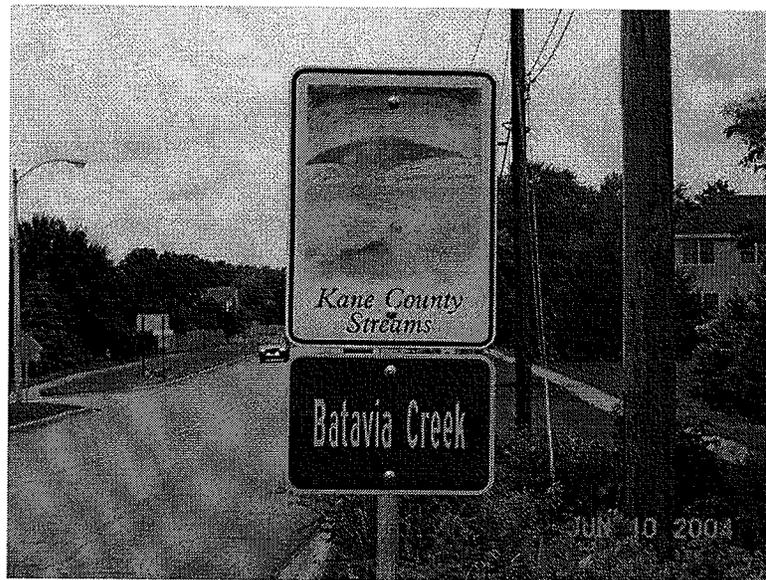
1. **Stream Sign Program:** As reported last year, the Kane County Department of Environmental Management began a program to help identify streams within the County. The signs, entitled "Kane County Streams," were made available to municipalities at no charge. The municipality, in turn, provides the sign for the stream name, the signpost, and the installation of the sign assembly.

The City of Batavia was the first municipality in the County to participate in this program and took the program a step further by customizing the look of the sign assembly. Signpost assembly began in February 2004. The County signs were delivered in late May 2004. Batavia's initial sign installation was completed in June 2004. A sampling of the sign installations is shown below.





2. **Stream Naming:** As reported last year, the City has started to assign names to the un-named tributaries within our jurisdiction to raise local awareness of the streams and foster a sense of citizen ownership for them. Batavia Creek, indicated below, was the first to be officially named.



3. **City Website:** The City website was updated to include an Engineering Department page. Digital versions of the FEMA Flood Insurance Rate Maps (FIRM) that cover the City's planning jurisdiction were added to the Department web page to increase awareness of local floodplain corridors. The URL for the City website is: <http://www.cityofbatavia.net>.

Permit Condition: BMP No. B6: Public Participation/Involvement: Program Coordination

The City of Batavia proposes to develop a program, in cooperation with the Batavia Park District, to assist and work with local citizens groups to organize stream clean ups and streambank stabilization and improvement projects for the Fox River and tributary streams within the City's jurisdiction.

Measurable Goal(s), including frequencies: Goals will be set in terms of annual number of stream miles cleaned and stabilized.

Milestones:

- Year 1:** Develop and coordinate program with Park District, and initiate contact with local citizens environmental groups.
- Year 2:** Organize and hold first stream clean-up event.
- Year 3:** Complete first stream restoration and stabilization project.
- Year 4:** Continue program with at least one annual project.

Compliance Activities:

1. **April 24, 2004 Fox River Trail Clean up:** City staff worked with a local citizens environmental group, Batavians for a Healthy River (BHR), to coordinate clean-up activities that focused on the shoreline and adjacent trails. City staff participated in the clean-up work.
2. **May 15, 2004 Fox River Clean up:** City staff worked with, Batavians for a Healthy River, to coordinate the clean-up activities in the Fox River between Clark Island and the South Batavia Dam. City staff participated in the clean-up work.
3. **October 02, 2004 Fox River Clean up:** City staff worked with Batavians for a Healthy River, to coordinate the clean-up activities in the Fox River that again focused on the Clark Island area. City staff

participated in the clean-up work.

4. **November 06, 2004 Fox River Clean up:** City staff worked with Batavians for a Healthy River to coordinate clean-up activities in the section of the Fox River that was once impounded by the breached South Batavia Dam. This clean-up was a follow-up to the event held on November 01, 2003 at the same location. More large debris exposed by the loss of the dam impoundment was removed. City staff participated in the clean-up work.

Permit Condition: BMP No. F5: Pollution Prevention/Good Housekeeping: Flood Management/Assess Guidelines

The City of Batavia proposes to complete updated hydrologic and hydraulic studies for all perennial and intermittent streams within the municipal boundaries using current data and modeling methodology. In addition to accurately quantifying floodplains and flood risks, these studies will help identify and quantify riparian areas that are eligible for protection as special management areas under the Kane County Stormwater Management Ordinance.

Measurable Goal(s), including frequencies: Complete one study per year in accordance with funding availability. Start implement study recommendations in the first fiscal year after a study is complete.

Milestones: Year 1: (as stated above)
Year 2:
Year 3:

Compliance Activities:

1. **Mill Creek Tributary Study:** This item was initially reported last year. In 2004, the hydrologic and hydraulic re-study of the un-named tributary of Mill Creek in southwest Batavia was completed and draft floodplain maps were prepared. Presently the City is evaluating options to extend the study limits and detail.

BMP No. F6

Brief Description of BMP: Pollution Prevention/Good Housekeeping: Other Municipal Operations Controls

The City of Batavia proposes to retrofit existing storm sewer and stormwater detention facilities with BMP's as the need for significant repair of these facilities and/or replacements of facility components arise. BMP's will be implemented outside of the need for such maintenance, as funding will allow. The City will complete a study that will develop a comprehensive retrofitting plan and identify locations and priorities to maximize the water quality benefits as early in the program as possible.

Measurable Goal(s), including frequencies: Measurement will be in terms of number of storm sewer structures replaced with BMP structures and number of detention facilities retrofitted.

Milestones: Year 1: Compile records and assess performance of current maintenance/replacement program.
Year 2: Commission study for comprehensive BMP retrofitting and BMP priorities.
Year 3: Begin BMP retrofitting implementation starting with high priority locations.
Year 4: Complete BMP retrofitting on remaining priorities.
Year 5: Full implementation of BMP retrofitting program with scheduled routine maintenance.

Compliance Activities:

1. **Windmill Lakes , Unit 2 Detention Basin Retrofit Project:** In early 2005, the City of Batavia partnered with the Fox Valley Land Foundation (FVLF) to retrofit an existing stormwater detention basin on the west side of the city to incorporate water quality best management practices.

The FVLF is a not-for-profit land protection organization works with private landowners, communities and developers to protect important open spaces and natural areas around Kane County, Illinois.

The existing detention basin discharges into a high-quality wetland area in the Mill Creek floodplain that the FVLF restores and maintains. The detention basin was constructed over ten years ago when design standards for such facilities focused on water quantity control measures only. Accordingly, experience was showing that the impaired quality of the stormwater discharging from the basin was adversely impacting the flora and habitat in the wetland area.

Currently, the retrofit project is in the engineering investigations phase. A topographic field survey of the site has already been completed and the data is being converted into an engineering drawing format. Engineering design of the detention basin retrofitting is expected to begin in the Summer of 2005.

Item D: - Proposed March 2005 – March 2006 Permit Activities

Permit Condition: BMP No. A6: Public Education and Outreach: Other Public Education

The City of Batavia proposes to develop a database of all property owners that abut and include local streams. Best Management Practice information will be mailed and otherwise made available to these property owners to help them in preserving and maintaining the riparian areas along the streams. The City will offer assistance and educational programs toward this end also. The City's plan to acquire GIS capabilities will improve future implementation of this program.

Measurable Goal(s), including frequencies: Goals will include timelines for completion of the property owner database, mailings, and other educational programs.

Milestones: **Year 1:** Complete property owner database.
Year 2: Complete initial contact and mailing.
Year 3: Hold an educational seminar for property owners. Have experts in riparian area management give presentations, etc.
Year 4: Complete GIS integration of property owner database.

Proposed Activities:

1. **Stream Corridor Property Owner Inventory:** In 2004, a full-time GIS Analyst was hired to begin implementing the City's GIS program. Now that this program is underway, the Engineering Department will begin to assemble the property owner databases described in the permit condition above.

Permit Condition: BMP No. B6: Public Participation/Involvement: Program Coordination

The City of Batavia proposes to develop a program, in cooperation with the Batavia Park District, to assist and work with local citizens groups to organize stream clean ups and streambank stabilization and improvement projects for the Fox River and tributary streams within the City's jurisdiction.

Measurable Goal(s), including frequencies: Goals will be set in terms of annual number of stream miles cleaned and stabilized.

Milestones: **Year 1:** Develop and coordinate program with Park District, and initiate contact with local citizens environmental groups.
Year 2: Organize and hold first stream clean-up event.
Year 3: Complete first stream restoration and stabilization project.
Year 4: Continue program with at least one annual project.

Proposed Activities:

1. **May 21, 2005 Fox River Trail Cleanup:** Scheduled clean-up of the trails and banks of the portion of the Fox River in downtown Batavia. City staff will participate in this event sponsored by the local citizens environmental group, Batavians for a Healthy River (BHR). The City will supply vehicles for debris collection and dumpster for disposal.
2. **Additional Clean ups:** One or more clean-ups are anticipated within the remainder of the calendar year. At least one of these events is intended for Mahoney Creek, a tributary of the Fox River that lies completely within Batavia's municipal boundaries. As with previous clean-ups, city staff and equipment will be used to remove and dispose of the collected debris.

Permit Condition: BMP No. F5: Pollution Prevention/Good Housekeeping: Flood Management/Assess Guidelines

The City of Batavia proposes to complete updated hydrologic and hydraulic studies for all perennial and

intermittent streams within the municipal boundaries using current data and modeling methodology. In addition to accurately quantifying floodplains and flood risks, these studies will help identify and quantify riparian areas that are eligible for protection as special management areas under the Kane County Stormwater Management Ordinance.

Measurable Goal(s), including frequencies: Complete one study per year in accordance with funding availability. Start implement study recommendations in the first fiscal year after a study is complete.

Milestones: **Year 1:** (as stated above)
Year 2:
Year 3:

Proposed Activities:

1. **Mahoney Creek Tributary Study:** The City has funds budgeted to complete a detailed hydrologic and hydraulic study of this tributary in the 2005-2006 reporting period. Modeling of this tributary was not included in the original FEMA Flood Insurance Study for the City of Batavia that was issued in 1981. While an updated study for the Mahoney Creek mainstem is planned, this detailed study for the Mahoney Creek Tributary will serve as an interim tool to define flood elevations and boundaries in this currently unmapped stream corridor.

Permit Condition: BMP No. F6: Pollution Prevention/Good Housekeeping: Other Municipal Operations Controls

The City of Batavia proposes to retrofit existing storm sewer and stormwater detention facilities with BMP's as the need for significant repair of these facilities and/or replacements of facility components arise. BMP's will be implemented outside of the need for such maintenance, as funding will allow. The City will complete a study that will develop a comprehensive retrofitting plan and identify locations and priorities to maximize the water quality benefits as early in the program as possible.

Measurable Goal(s), including frequencies: Measurement will be in terms of number of storm sewer structures replaced with BMP structures and number of detention facilities retrofitted.

Milestones: **Year 1:** Compile records and assess performance of current maintenance/replacement program.
Year 2: Commission study for comprehensive BMP retrofitting and BMP priorities.
Year 3: Begin BMP retrofitting implementation starting with high priority locations.
Year 4: Complete BMP retrofitting on remaining priorities.
Year 5: Full implementation of BMP retrofitting program with scheduled routine maintenance.

Proposed Activities:

1. **Windmill Lakes , Unit 2 Detention Basin Retrofit Project:** As indicated in Item B, the City of Batavia partnered with the Fox Valley Land Foundation (FVLF) in early 2005 to retrofit an existing stormwater detention basin on the west side of the city to incorporate water quality best management practices.

The City expects to complete the design work for the retrofit project and possibly begin construction in the 2005-2006 reporting period.

Item E: - Permit Obligations Provided by Other Government Entity

NPDES Phase II - 2004 Kane County Activities (Kane County Department of Environmental Management)

General:

1. Note: The following activities were conducted county-wide by Kane County and are intended to satisfy NPDES Phase II permit requirements for these two control measures for local governments within Kane County.

CM 1 - Public Education and Outreach

1. **School Education:**
The County contracted with the Kane-DuPage Soil & Water Conservation District (KDSWCD) to conduct related K-12 educational activities in Kane County schools. During the 2003-04 school year, the District presented eleven water-related programs in eight schools and one 4-H club, directly reaching 936 students. In addition, a groundwater model was used to demonstrate the importance of water resources to 2,500 4th grade students during the annual Kane County Ag Days.
2. **Stream Signage:**
The County developed standard tributary identifications signs, featuring the winning artwork from a student poster contest. The signs were placed at 42 intersections of county roads and waterways. The Cities of Batavia and St. Charles and the Villages of East Dundee and Gilberts installed another 72 signs.

CM 2 - Public Involvement and Participation

1. **Stream Monitoring:**
The County contracted with the Friends of the Fox River to expand its stream-monitoring network. Twenty new monitoring sites, on eleven different waterways, were established during the past year. A total of 44 locations are now being monitored throughout Kane County.
2. **Stream Clean-Up Program:**
The County provided financial support to three different organizations to conduct ten separate clean-up events on the Fox River.
3. **Storm Drain Stenciling Program:**
The County contracted with the Kane-DuPage Soil & Water District to establish a storm drain stenciling program. Supplies have been acquired and a solicitation sent to potential participants. The Lions Club in North Aurora is the first local group to participate in this effort.