

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

ANNUAL FACILITY INSPECTION REPORT

YEAR 3: 2010-2011

NPDES PERMIT FOR STORM SEWER DISCHARGES FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4) BATAVIA, ILLINOIS

Item A: Changes to Best Management Practices for 2010-2011

There have been no changes to the Best Management Practices for the six minimum control measures as originally submitted on the NOI for this reporting period.

Item B: - Status of Compliance With Permit Conditions for 2010-2011

PERMIT CONDITION: BMP No.A4: Public Education and Outreach: Community Event

The City of Batavia will continue to assist with hosting the Environ-Expo events as they occur. Environ Expo is a free citywide event held at the Batavia City Hall to showcase ideas about conserving energy, water, and resources with the intention of making the community a cleaner, safer, more sustainable place to live.

Measurable Goal(s), including frequencies: City to host/assist with one event per year.

Milestones: Year 1: As stated above.

Year 2: As stated above.

Year 3: As stated above.

Year 4: As stated above.

Year 5: As stated above.

COMPLIANCE ACTIVITIES:

1. With budgets being tightened this event has been put on hold. We have shifted our focus to Classroom Education Material, BMP No. A5 for the remainder of this permit.
2. On April 14, 2010 the City of Batavia hosted The Conservation Foundation to present its Conservation @ Home program to enlighten residents how to incorporate BMPs in their own yards by the use of plants and trees. In addition the speaker, Jim Kleinwatcher, spoke about how to incorporate rain barrels and rain gardens into residential yards as well. In explaining how these plants and barrels work he illustrated how the plants roots are as deep as 15', that the plants take the water in and bring them to the roots therefore recharging the aquifer. In addition, he mentioned how incorporating these features can solve yard problems, such as reducing the rate of runoff from each lot. Additional information was available in supplied brochures from The Conservation Foundation. Rain barrels were also made available for purchase to the public, about 100 rain barrels were sold leading up to and during this event.
3. The City has obtained a copy of After the Storm produced by The Weather Channel and EPA and Batavia Public Access Television has aired it numerous times throughout the year. It explains what watersheds are and how to prevent pollution of the watershed we live in and how it affects others. It aired on BATV from December 3-5, 2010 and March 23 and 24, 2011.
4. The City has a weekly Municipal Minute update that talks about topics and ongoing events around the town. January 27, 2011 the Engineering Department talked about the ongoing work at Windmill Lakes Detention Basin Retrofit to keep residents up to date .

PERMIT CONDITION: BMP No.A5: Public Education and Outreach: Classroom Education Material

The City of Batavia proposes to develop lesson plans for children/students of multiple age groups to educate them about the stormwater in and around their community. This includes stories at the library for toddler aged children, interactive worksheets and/or videos for elementary/middle school students and pseudo stormwater projects for the high school students. The engineers will have direct contact with the school for creating and implementing these projects.

Measurable Goal(s), including frequencies: City to assist in one education project as a minimum per year per age group.

- Milestones:** **Year 1:** As stated above.
Year 2: As stated above.
Year 3: As stated above.
Year 4: As stated above.
Year 5: As stated above.

COMPLIANCE ACTIVITIES:

1. **Toddler Age Group:** Nothing was planned for this permit year, but in the future we will be working in conjunction with the Batavia Public Library where a member of the City of Batavia’s Engineering or Public Works staff will read a storm water story to the children.
2. **Elementary School Age Group:** On Tuesday, May 4, 2010 Gary Holm, Director of Public Works spent part of the afternoon with the elementary students in an event called Truck Tales at the Batavia Public Library. During this event he read a story related to Stormwater issues, distributed pamphlets from APWA (American Public Works Association) and brought a Public Works truck for the children to view. Below is the flyer that was published for this event:

Prepare for Public Works Week
May 4



TRUCK TALES

Join Mr. Ted from the Batavia Public Library and City of Batavia’s Public Works Director, Gary Holm, for truck stories. Hear a story, learn about what Public Works does and then climb aboard one of the trucks from Batavia Public Works.

Children ages 5 - 8 are invited to join us on Tuesday, May 4 at 4:00 p.m. in the Reading Garden (weather permitting) to prepare for Public Works Week May 16-22

Please register beginning April 15 with Youth Services, call (630) 879-4775.

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May 4



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Please register beginning April 15 with Youth Services, call (630) 879-4775.

3. **High School Age Group:** This year a representative from the City of Batavia’s Engineering Department visited the senior AP Biology Class to present a problem with the detention basin on the north side of the campus and the invasion of cattails at the outlet structures on Tuesday, December 7, 2010. The project also asked them to evaluate their newly redesigned campus to determine the best location and types of BMPs to be implemented around this basin as well as a way of trying to reduce and remove the invasive species from entering the basin.

On Monday, January 10, 2011 a representative from the City of Batavia returned to Batavia High School to listen to the presentations. All presentations discussed drainage of the basin based on soil type and characteristics. They mentioned ways to remove the extra nutrients being discharged into the basin by

adding a diverse group of native plantings as well as trees. The trees will provide shade and cattails do not like to grow in those conditions. The presentations also included budgetary constraints and maintenance activities. This activity helped educate the students and make them aware of how a few minor improvements can help their watershed and the community they live in. Below is an example from one of the presentations:



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: Complete one property owner database each year with one educational mailing made and/or program held for that group of property owners that same year.

- Milestones:**
- Year 1:** Complete database for property owners along the Mahoney Creek Tributary.
 - Year 2:** Complete database for property owners along Batavia Creek.
 - Year 3:** Complete database for property owners along Mahoney Creek.
 - Year 4:** Complete database for property owners along McKee Road Tributary of Mill Creek.
 - Year 5:** Complete database for property owners along the Mill Creek.

COMPLIANCE ACTIVITIES:

1. A list of all those residents along Mahoney Creek was created using our information already created in our GIS database and we will continue to create lists of these residents the same way in future mailings. A letter was mailed to all residents along Mahoney Creek in June. The letter that was submitted to those residents is included below:

CITY OF BATAVIA

100 North Island Avenue, Batavia, Illinois 60510
Phone: (630) 454-2000 Fax: (630) 454-2775

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

June 14, 2010

Re: MAHONEY CREEK

Dear Homeowner:

You are getting this letter because you live directly adjacent to the Mahoney Creek. As you may be aware Mahoney Creek and Tributary are the only Creeks in the City that its watershed is entirely within City Limits. An article about Mahoney Creek and its tributary was previously distributed in the Fall 2005 issue of Currents, which can be located at <http://www.cityofbatavia.net/content/articlefiles/670-Fall2005.pdf>

As a resident along the Mahoney Creek Tributary, The City of Batavia would like to pass on information regarding watersheds and how you can help keep your portion of the creek clean. Enclosed with this letter is a map of the Mahoney Creek Watershed. The watershed map shows all the areas that eventually drain to Mahoney Creek and its Tributary. The Welcome to your Watershed brochure enclosed describes more about Watersheds and how they work. In addition the brochure shares friendly practices each resident could implement in their own household to improve the natural state of the stream. The last page of the brochure has a list of references for some more information on specific ways to improve the watershed.

As the summer season approaches please keep these ideas in mind to help promote a healthy watershed. The City of Batavia held a spring clean-up day (to remove some debris that was washed onto the shore after the winter, cut down brush, etc.) for the Fox River and may help sponsor another day this fall. Please watch your Neighbors publications for more information.

Sincerely,

A handwritten signature in black ink that reads "Andrea M Rattray". The signature is written in a cursive style.

Andrea M. Rattray, P.E.
Civil Engineer

Cc: Noel A. Basquin, City Engineer
File – Stormwater – NPDES II

S:\Eng Shared\Batavia Stormwater-Floodplain Management\NPDES Phase II\2010-2011 Annual Report\Mahoney Creek Notice to Residents\Mahoney Creek Notice to Residents - MASTER.docx

In addition, a copy of the Watershed Map for Mahoney Creek, Welcome to Your Watershed information, Fox River Watershed information, Top Ten Things Streamside and Shoreline Property Owners Can Do To Protect Kane County Waters were also included in the mailing. These pieces of information were given to the residents to educate them on the natural area near their home, how to preserve it and show them how many residents are included in their watershed.

The supplemental information included in this mailing is below:



1. Know Where You Live
Sure you know what road you live on – what town or township, and even what zip code. But do you know what watershed you live in? Do you know who lives upstream and downstream of you? Check out the enclosed map then go online to www.co.kane.il.us/kcstorm/watersheds to find out more about your 'watershed address'.

2. Shore up that Shoreline
Over time, you can lose valuable property through shoreline erosion. Stabilize your shoreline by using native vegetation and bioengineering techniques. A buffer of native vegetation along a streambank holds the soil in place with deep roots and acts as a filter, reducing the speed of water across your yard, and allowing sediments to settle out before they clog our streams and rivers. Permits are required for grading, installation of stabilization materials and structures like piers and docks.

3. Let Nature Be (But Keep it Flowing)
Fallen trees or snags provide excellent habitat and serve other useful purposes. Obstructions should be removed if they begin to cause flooding.

4. Don't Dump Debris
A natural, healthy shoreline includes plants, trees, and shrubs that shed leaves and other vegetative debris along the water's edge. But too much of a good thing is not good for the water. Grass clippings, leaf piles, and excess soil piles all pose a threat to healthy water. Keep those landscape debris pollutants out of the waterways by using mulch piles away from the water's edge or bagging for landscape waste pickup.

5. Take Care of Your Septic
Septic system leakage and discharge pollutes our streams and lakes with nutrients. Septic tanks should be inspected and cleaned out every 2-3 years. For more information, see www.kanehealth.com/PDFs/Environmental/SepticSystem.pdf

6. Keep the Objectionables Out
Bring household hazardous wastes to approved collection sites. Hazardous wastes (gasoline, solvents, oil paints, fertilizers, pesticides, expired medications etc.), if dumped in your backyard, down the drain, or down the gutter, will end up in our streams and rivers.

7. Show You're Skilled – Get Permits to Build
There are four (4) agencies that oversee construction activities on Kane County creeks and shorelines:

- ◆ Kane County Building Department or Municipal Building Permit Office
- ◆ U.S. Army Corps of Engineers
- ◆ Illinois Department of Natural Resources - Office of Water Resources
- ◆ Illinois Environmental Protection Agency

A permit is required prior to most construction near water bodies. Failure to obtain permits prior to construction could be cause for fines and penalties.

8. Go Easy on the Green
Green, lush grass looks great on a ballfield, but the fertilizers and pesticides used to create that 'green carpet' effect can wreak havoc if they migrate into a stream or river. Try native plant gardens instead, or use grass species which don't require chemicals.

9. Join Forces
Interested in knowing more about your 'watershed neighborhood'? Find others in your area who are also trying to preserve and protect the local waters - watershed groups are active and the more people involved, the better! See Kane County's watershed information website: www.co.kane.il.us/kcstorm/watersheds

10. Enjoy Your View!
By following these guidelines, you can reap all the benefits of living with a waterfront property – birds singing, clear, clean water, and the pride of knowing you are doing a world of good for your downstream watershed neighbors!

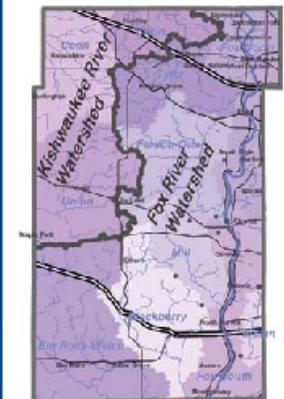
Agency Contacts for Permits
U.S. Army Corps of Engineers, Chicago District
Regulatory Branch
111 North Canal St. Suite 600
Chicago, IL 60606-7206
312-846-5530 Ext 4026
www.usace.army.mil

IL Department of Natural Resources
2050 W. Stearns Road
Bartlett, Illinois 60103
847-608-3100 www.dnr.state.il.us/owr

Kane-DuPage Soil & Water Conservation District
2315 Dean Street, Suite 100
St. Charles, Illinois 60175
630.584.7961 Ext. 3 www.kanedupagenwcd.org

Kane County Development Department
719 Batavia Avenue
Geneva, IL 60134
630-208-3480 www.co.kane.il.us/development

Kane County Department of Environmental & Building Management
719 Batavia Avenue; Building A • Geneva, IL 60134
630.208.5118 • www.co.kane.il.us/kcstorm



Kane County River Basins and Subwatersheds

PERMIT CONDITION : BMP No.B6: Public Participation/Involvement: Program Coordination

The City of Batavia will continue to work with the Batavia Park District, local environmental groups, and individual citizens groups to organize and participate in clean ups and ecological restoration projects for the reaches of the Fox River and tributary streams that are within the City's jurisdiction.

Measurable Goal(s), including frequencies: Host at least two clean-up/restoration events each year.

- Milestones:**
- Year 1:** Continue with at least two stream clean-up/restoration events.
 - Year 2:** Continue with at least two stream clean-up/restoration events.
 - Year 3:** Continue with at least two stream clean-up/restoration events.
 - Year 4:** Continue with at least two stream clean-up/restoration events.
 - Year 5:** Continue with at least two stream clean-up/restoration events.

COMPLIANCE ACTIVITIES:

- May 15, 2010 Fox River Trail Clean up:** City staff worked with BHR and other local volunteers to co-host a spring clean-up workday that focused on the Fox River shoreline and adjacent trails south of downtown Batavia. The City of Batavia provided the dumpster for debris removal and the equipment to transport the collected debris to the dumpster. This clean-up was one of the largest volunteer turn-out events to date. Below is the flyer promoting the clean-up along with another article advertising the event:

SPRING CLEANING...

It's about that time and it's not too soon to start planning for our next big community event.

The City of Batavia is looking at putting together a group of **employees & elected officials (and their families)** to help with the spring **FOX RIVER CLEAN-UP** event on **MAY 15, 2010** starting at the Skate Park off IL Rt. 25 from 8:30 am til noon held by Batavians for a Healthy River

Last year over 170 volunteers helped, will you consider being part of this wonderful event this year???



If you are interested please contact Noel Basquin in Engineering (x 2760 or via email) to sign up by **May 3** in order to estimate a head count.

Trash bags will be supplied, just bring work gloves and dress appropriately!

All participants will be asked to sign a waiver form. All children must be accompanied by a parent or supervising adult and must have a waiver form signed by a parent or guardian. For more information and to obtain a waiver in advance visit the **Batavians for a Healthy River Website** at www.bataviansforhealthyriver.org

Let's team up for a good cause, we hope to see you out there!



City announces 2010 Parkway Tree Program

The City of Batavia is again offering its residents the opportunity to purchase a parkway tree as part of its commitment to reforestation in Batavia. Funding is derived from the City of Batavia Electric Utility, and the program is administered by the Batavia Street Department. The available species are locally grown, quality trees that have proved to do well in city parkways. In order to offer a different variety of species each year to provide a diversified parkway tree population for our community.

To apply for a tree:

- Please obtain request forms by July 1, 2010 (forms available at cityofbatavia.org).
- Four species are available: State Street Maple, Maple, Box Oak, Amelanchier, and Crape Myrtle; and Black/White Oak.
- Placement of trees is subject to location of utilities and space requirements. For example, our minimum spacing is generally 4' between trees and 10' from sidewalks, curbsides, and hydrants. City lawns grow trees such as crab apples can be planted under overhead wires.

Program highlights:

- Trees will be planted in late October. Residents are responsible for watering and care of tree. Instructions will be provided prior to planting.
- Residents pay one half of the tree cost, which is posted on the City Web site. Residents will be invoiced for their share of the tree cost after planting.
- Please call the Street Department at 631-454-2400 with any questions.
- Trees are approximately 1.5' to 2.5' in diameter and 7' to 12' high at time of planting, depending on species. The top of the root ball is planted about 3" above existing grade.
- Trees will be guaranteed through June 30 of the following season.

Your elected city officials

Mayor- Jeffery D. Schielke	Aldermen Serving through 2011 Garon Sparks, Ward 1 Alan Wolfe, Ward 2 Tom Schmitz, Ward 4 Luis Padilla-Rivera, Ward 5 Lisa Clark, Ward 6 David L. Brown, Ward 7	Aldermen Serving through 2013 Michael F. O'Brien, Ward 1 Victor Orta, Ward 2 Janet Jungels, Ward 3 James T. Sells, Ward 4 Eliot Frydendal, Ward 5 Robert Liza, Ward 6 Dawn Terzisa, Ward 7
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River clean-up event scheduled for May 15

MARK YOUR CALENDARS! Batavians For A Healthy River (BFAHR) is recruiting volunteers for a Fox River Cleanup in Batavia on Saturday, May 15, 8:30am to Noon. The group will meet at the parking lot on Route 25 by Clark Island and the Skate Park. The Batavia Park District and the City will be assisting with the clean-up and restoration efforts. This cleanup will focus on shoreline and river cleanup. Volunteers should dress appropriately and bring work gloves. Trash bags will be provided. A few canoes are needed and volunteers experienced in removal of trash from the river. Those with canoes should bring them.

All Batavia citizens are invited to volunteer for this effort. Please join us on May 15 to make this a true community event for the betterment of our environment and our City. The more volunteers we get, the more extensive and meaningful will be our restoration accomplishment. Volunteers interested in participating in the cleanup can just show up on May 15. However, those with questions or anyone who is organizing small groups to participate can better assist in the planning by contacting Janet DeMott at 631-871-5748. All participants will be asked to sign a waiver form. All children must be accompanied by a parent or supervising adult and must have a waiver form signed by a parent or guardian. For more information and to obtain a waiver in advance visit the Batavians for a Healthy River Web site at www.bataviansforhealthyriver.org or see the City Web site at cityofbatavia.net for general

Bicycle Rodeo is coming!

The First Annual Batavia Bicycle Rodeo at Batavia Middle School will be on Saturday, May 15, from 8:30am to 1:30pm in the Northeast parking lot. The rodeo is a combination bicycle safety seminar and safety obstacle course, which is open to children of all ages. There will be complimentary helmet fittings, safety checks, and adjustments on all children's bicycles. The highlight of the rodeo is the obstacle course, on which riders will learn to navigate street crossings, driveways, stop signs, car door openings and have fun.

The rodeo is sponsored by the Batavia Bicycle Commission in conjunction with the Batavia Police Department.

Helmet and bike are required to participate.

- Fall 2010 Fox River Trail Clean up:** Due to time and budget constraints of volunteers and local organizations the fall clean-up did not occur. We anticipate continuing with another clean-up in the spring.
- Winter 2010 Mahoney Creek Restoration:** The Mahoney Creek had a restoration event held on Tuesday, December 28, 2010 through The Conservation Foundation, whom holds a conservation easement over portions of the creek in the vicinity north of East Wilson Street. They had a small turnout, but were able to get a good portion of the creek cleaned.

There have been many cooperative efforts between the City of Batavia and Batavians For A Healthy River over the past five years that have helped get the local citizenry involved in water resource stewardship activities.

PERMIT CONDITION : BMP No.B6: Public Participation/Involvement: Program Coordination

The City of Batavia has started a Storm Sewer Stenciling Program to get the community involved with marking all roadway storm sewers with manholes, catch basins and inlets within the City's limits. The marking states "DO NOT DRAIN DUMPS TO RIVER. This project will be coordinated from the Engineering Department and available to any resident or group in Batavia. The program got its start from the help of the Kane DuPage Soil and Water Conservation District by providing stencils, pamphlets and informational door hangers.

Measurable Goal(s), including frequencies: Paint at least two streets each year.

- Milestones:**
- Year 1:** BMP was not in place this year.
 - Year 2:** Continue with at least two street painting events.
 - Year 3:** Continue with at least two street painting events.
 - Year 4:** Continue with at least two street painting events.
 - Year 5:** Continue with at least two street painting events.

COMPLIANCE ACTIVITIES:

1. **July 19, 2010:** City staff worked with members of the Rotolo Middle School’s Ecology Club to do storm sewer stenciling. Stenciling was completed on several streets including Ellen Lane and Roberts Lane. A total of thirty one (31) inlets were stenciled. While a team was stenciling the street inlets other team members were placing tags on resident’s doors notifying them of the project and what it means. Below are examples of the stenciling that was completed as well as the volunteers:



2. **Various dates in 2010:** The Rotolo Middle School Ecology Group went out an additional two (2) times during August & November, while having 2 groups rained out as well. With the help of all the volunteers Batavia had an additional 86 storm sewers stenciled which cover portions of 9 streets within the City. In the newer parts of town the storm drain lid have already been cast with the Dump No Waste.



PERMIT CONDITION: BMP No.C1: Illicit Discharge Detection and Elimination: Storm Sewer Map Preparation

The City of Batavia will complete accurate, up-to-date geographic information system mapping of the City’s stormwater management system, including storm sewers, detention facilities, and outfalls to natural streams, rivers and wetlands.

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

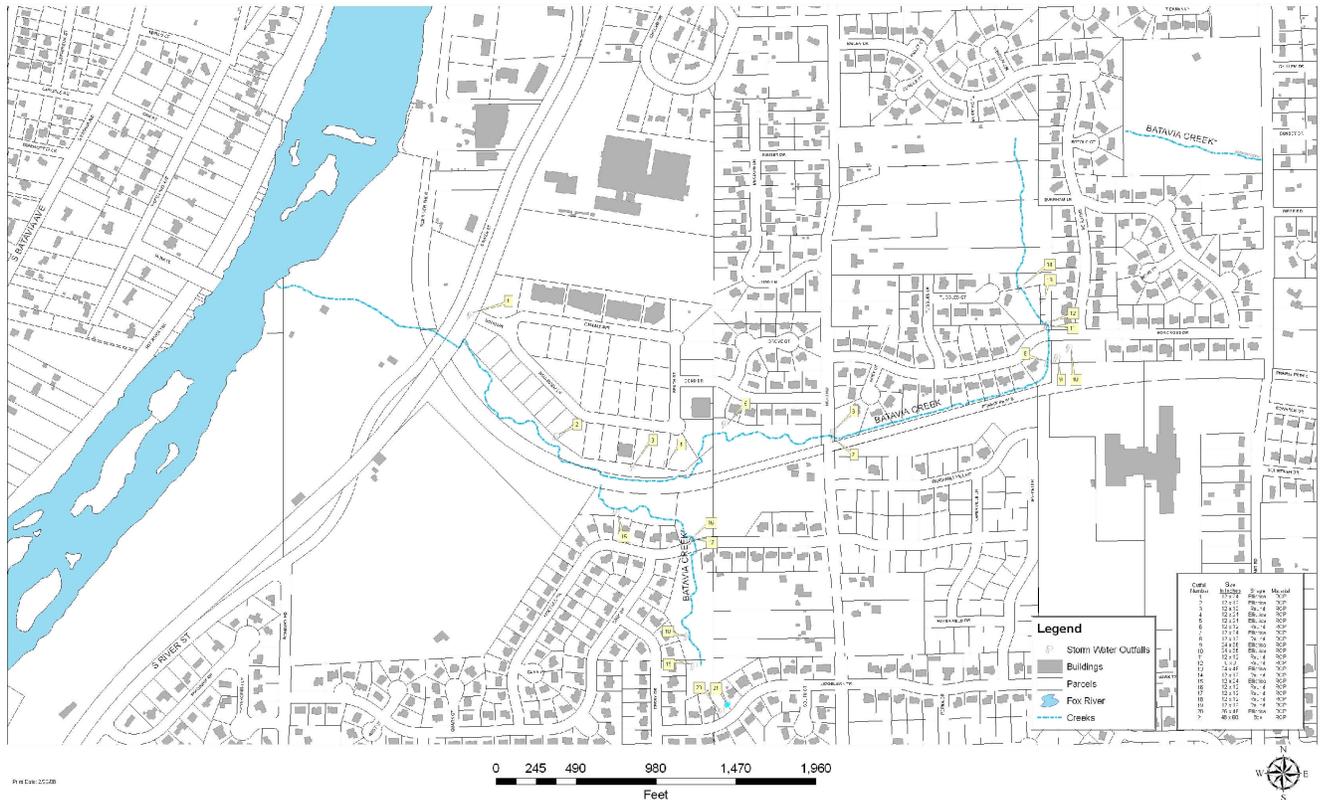
Milestones: **Year 1:** Complete GPS data collection of the City’s existing storm sewer network (including outfalls) and integrate the database with the City’s geographic information system.
Year 2: Add/upgrade storm sewer GPS information as new developments are added and modifications are made to the existing stormwater infrastructure.

- Year 3:** Same as above.
- Year 4:** Same as above.
- Year 5:** Same as above.

COMPLIANCE ACTIVITIES:

1. **Citywide Stormwater Management System Mapping**: The City has continued to update the database of all projects once completion has occurred utilizing as-built construction plans. This has helped with the collection of information for the entire system. The map has the locations of all the outfalls in the city including structures discharging into the Fox River and numerous creeks and tributaries. Below is a sample of the map put together for the Batavia Creek Storm Sewer Outfalls:

Batavia Creek Storm Sewer Outfalls



PERMIT CONDITION: **BMP No.D2: Construction Site Runoff Control: Erosion and Sediment Control BMP's**

Temporary and permanent erosion and sediment control BMP's will continue to be required for all development and redevelopment projects in accordance with the Kane County Stormwater Management Ordinance.

Measurable Goal(s), including frequencies: BMP's will be implemented as development projects occur.

- Milestones:**
- Year 1:** As stated above.
 - Year 2:** As stated above.
 - Year 3:** As stated above.
 - Year 4:** As stated above.
 - Year 5:** As stated above.

COMPLIANCE ACTIVITIES:

1. **Erosion and Sediment Control BMPs**: As stated in the objective of this section, all projects completed in Batavia where earth disturbance occurs, following the Kane County Stormwater Management Ordinance, have temporary and permanent erosion and sediment control Best Management Practices in place. This has been monitored by both the City of Batavia's Engineering Staff along with Kane-DuPage Soil and Water

Conservation District, who is on retainer to monitor the site conditions during construction. This past year the City of Batavia has updated our standard detail sheet for erosion control measures to keep up to date with current practices.

PERMIT CONDITION: BMP No.D4: Construction Site Runoff Control: Site Plan Review Procedures

The City of Batavia will continue its agreement with the Kane-DuPage Soil and Water Conservation District (KDSWCD) to review engineering plans submitted for new development or redevelopment projects for conformance with current soil erosion and sediment control (SESC) standards.

Measurable Goal(s), including frequencies: KDSWCD reviews will take place as building permit application submittals are made to the city.

- Milestones:**
- Year 1:** As stated above.
 - Year 2:** As stated above.
 - Year 3:** As stated above.
 - Year 4:** As stated above.
 - Year 5:** As stated above.

COMPLIANCE ACTIVITIES:

1. All new development and redevelopment projects have to illustrate compliance with the latest soil erosion and sediment control standards by submitting engineering plans to KDSWCD and provide the City of Batavia with an approval letter. A sample approval letter is below:

Kane – DuPage Soil & Water
Conservation District



April 15, 2010

Kevin Camino
Eriksson Engineering Associates, Ltd.
145 Commerce Drive, Suite A
Grayslake, IL 60030

KDSWCD File: 10e015
Approved Plan Set Dated: 04/15/2010

Dear Mr. Camino:

I received your revised soil erosion and sedimentation control plan submittal for the Aldi Headquarters Expansion project located in Batavia, Illinois. Thank you for incorporating our comments into the plan, it will improve the quality of protection for the natural resources, both on and off site. This letter and a set of stamped plans located at the construction office on site, will serve to certify that the erosion and sediment control plans meet Technical Standards.

We will visit the site several times during the course of construction to assess compliance with the specifications and will be glad to address specific issues that may arise during the course of construction.

Sincerely,

Resource Analyst
Kane-DuPage Soil and Water Conservation District

FCC: Noel Basquin, City of Batavia

PERMIT CONDITION: BMP No.D6: Construction Site Runoff Control: Site Inspection/Enforcement Procedures

The City of Batavia will continue its agreement with the Kane-DuPage Soil and Water Conservation District (KDSWCD) to conduct periodic construction site inspections for proper SESC installation and effectiveness. City engineering staff also will continue to perform both scheduled and ad-hoc construction site inspections to ensure that SESC measures are in place and working.

Measurable Goal(s), including frequencies: Both KDSWCD and City of Batavia staff inspections and routine reviews will take place as building permits are issued.

- Milestones:**
- Year 1:** As stated above.
 - Year 2:** As stated above.
 - Year 3:** As stated above.
 - Year 4:** As stated above.
 - Year 5:** As stated above.

COMPLIANCE ACTIVITIES:

1. The City of Batavia routinely inspects all projects under construction. In addition, the City gets calls notifying the department when sites are delinquent in complying with SESC measures. When there are delinquencies the City notifies the property owner(s) immediately via written notification, as shown below and they have 48 hours to fix the problem otherwise they will start incurring violation fees.



CITY OF BATAVIA
Engineering Department
 100 North Island Avenue
 Batavia, Illinois 60510
 Phone: (630) 454-2000
 Fax: (630) 454-2775

STOP WORK TWO DAY NOTICE FAX

To:	Fax#:
From:	Date:

This notice is to inform you that the following location has failed a random site inspection for erosion control:

Address: **(insert address here)**
 Lot#: **(insert lot# here)**
 Development Name: **(insert developer name here)**
 Developer: **(insert developer here)**
 Builder: **(insert builder here)**

Please resolve this deficiency or a STOP WORK ORDER will be issued on **(insert day, month date, year)**

Under Chapter 11 of the City of Batavia Subdivision Control Ordinance, failure to comply will result in a Notice to Appear and a fine of up to \$750.00 per day will be imposed.

Signature:
 Inspected By: **(insert name here)**
 Inspection Date: **(insert date here)**

PERMIT CONDITION: BMP No.E4: Post-Construction Runoff Control: Pre-Construction Review of BMP Designs

The City of Batavia will continue to complete in-house reviews of development and re-development engineering plans for conformance with current BMP design standards. Currently, the City has three licensed professional Civil Engineers on staff.

Measurable Goal(s), including frequencies: In-house final engineering plan reviews will take place as building permit application submittals are made to the City.

Milestones: **Year 1:** As stated above.
Year 2: As stated above.
Year 3: As stated above.
Year 4: As stated above.
Year 5: As stated above.

COMPLIANCE ACTIVITIES:

1. The City of Batavia's Engineering Department reviews each plan set for conformance with the current BMP standards and will recommend additional measures where seen fit.

PERMIT CONDITION: BMP No.E5: Post-Construction Runoff Control: Site Inspections During Construction

The City of Batavia will continue to complete in-house site work inspections of development and re-development projects. Currently, the City has one full-time Engineering Inspector on staff.

Measurable Goal(s), including frequencies: City of Batavia scheduled staff inspections and routine reviews will take place as building permits are issued.

Milestones: **Year 1:** As stated above.
Year 2: As stated above.
Year 3: As stated above.
Year 4: As stated above.
Year 5: As stated above.

COMPLIANCE ACTIVITIES:

1. The City of Batavia's full-time Engineering Inspector is scheduled to hold inspections when the utilities are installed, after the curb, sidewalk and approach are installed, and after final grading while making sure that soil erosion control measures are in place during all inspections.

PERMIT CONDITION: BMP No.E6: Post-Construction Runoff Control: Post-Construction Inspections

The City of Batavia will continue to monitor the constructed stormwater management systems of both private and public projects. A one-year maintenance letter of credit is required for all public and private projects to ensure that the performance of the constructed project meets the original design intent and applicable Citycodes. City of Batavia Public Works, Engineering, and Code Compliance staff are all involved in the post-construction monitoring process.

Measurable Goal(s), including frequencies: City of Batavia Engineering and Public Works staff participate in a final walk-through inspection and punch-list preparation for each private and public construction project. These inspections occur as projects are completed and requests for final acceptance are made. Staff then makes a recommendation for acceptance to the City Council, which is the City's final approving authority. The Code Compliance Department is involved in post-construction matters to the extent that questions / comments / complaints about City code applicability arise.

- Milestones:** **Year 1:** As stated above.
Year 2: As stated above.
Year 3: As stated above.
Year 4: As stated above.
Year 5: As stated above.

COMPLIANCE ACTIVITIES:

1. City of Batavia staff has performed post-construction final walk-through inspections as projects are completed. These inspections are to verify that the site has been constructed to the standards and design as approved in the Final Engineering Plans.

PERMIT CONDITION: **BMP No.F5: Pollution Prevention/Good Housekeeping: Flood Management/ Assess Guidelines**

The City of Batavia will continue 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 implementing study recommendations in the first fiscal year after the study is completed.

- Milestones:** **Year 1:** As stated above.
Year 2: As stated above.
Year 3: As stated above.
Year 4: As stated above.
Year 5: As stated above.

COMPLIANCE ACTIVITIES:

1. **Braeburn Marsh Study:** The City hired a consultant to analyze the Braeburn Marsh area and adjoining subdivisions over this last year. The study was completed and recommendations were made based on logical engineering practices and budgetary concerns. This fall the west half of Braeburn Marsh was burned, but because of the wet fall and wind direction the east half of the Braeburn Marsh were unable to have their controlled burn completed; it will be done in the spring of 2010. In addition engineering plans are being completed to remove built-up sediment that has settled in the bottom of the Marsh over the last 20 years and create a positive outfall in a channel directly discharging into the marsh from upstream basins. Both of these improvements will help regain positive outflow and conveyance of stormwater in addition to providing the original storage volumes that were permitted when the subdivision was constructed. The contractors were able to finish the construction/dredging of the main marsh during the summer of 2010 and will be reconing in the spring of 2011 to finish dredging the channel on the east side that connects with upstream detention basins.
2. **Mahoney Creek Watershed:** The City had intentions of applying for a 319 Grant last permit year, but time constraints with other projects and limited resources has held up applying for the grant until either the summer of 2011 or 2012. Once we apply and if we are selected for the grant we will be working on improving the entire watershed by implementing BMPs, providing additional storage areas, stabilizing creek banks, upsizing and adding storm sewer in areas that are prone to flooding. These improvements will be expanded upon as the application is being filed out.

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 numbers of BMP retrofitted storm sewer structures and detention facilities.

Milestones: **Year 1:** Identify several City owned detention facilities that are good candidates for retrofit projects. Solicit proposals from qualified consultants and/or contractors to develop retrofitting plans for each selected facility.

Year 2: Budget engineering and construction funding for one detention retrofit project. Complete necessary coordination with adjoining property owners.

Year 3: Continue above process with another detention facility.

Year 4: Continue above process with another detention facility.

Year 5: Continue above process with another detention facility.

COMPLIANCE ACTIVITIES:

1. **Retrofit locations:** The City has identified six locations throughout the City where retrofitted basins would benefit the system. The basins and status updates are as follows:

- a. The first basin is located at the East Side Fire Station on East Wilson Street. This basin was converted when the fire station was originally remodeled two years ago, but was not executed very well and will be revised. This project was supposed to be completed by an Eagle Scout, but he backed out, therefore the City has hired a consultant. The City has been working with the consultant this past permit year to put in some new plantings and implement a burning to remove some invasive species. Even after the consultant had put in new plantings the soil conditions were not ideal, mainly clayey, therefore not allowing any groundwater to recharge & percolating into the soil. This retrofit basin has been turned back into the standard basin due to constraints out of our control at this point.
- b. The second location is the detention pond at the northeast corner of Edwards and Raddant Road.
- c. The third location is the detention pond on the south side of Wind Energy Pass just east of Raddant Road.
- d. The fourth location is the pond located at the south end of the Public Works facility.
- e. The fifth location is a small portion of the pond between Bradford and North Avenue.
- f. The last location is the detention pond at the northeast corner of Deerpath and Main Street.

The last five have not been solicited for consultants at this time due to budget restraints. The City of Batavia is looking at doing some of these retrofit projects in house when funds are available.

Item C: - List of Information Collected & Analyzed for 2010-2011

The City did not collect or analyze any monitoring data during this reporting period.

Item D: - Proposed April 2011 – March 2012 Permit Activities

PERMIT CONDITION: BMP No.A5: Public Education and Outreach: Classroom Education Material

The City of Batavia proposes to develop lesson plans for children/students of multiple age groups to educate them about the stormwater in and around their community. This includes stories at the library for elementary school aged children, interactive worksheets and/or videos for middle school students and pseudo stormwater projects for the high school students. The engineers will have direct contact with the school for creating and implementing these projects.

Measurable Goal(s), including frequencies: City to assist in one education project as a minimum per year per age group.

- Milestones:** **Year 1:** As stated above.
Year 2: As stated above.
Year 3: As stated above.
Year 4: As stated above.
Year 5: As stated above.

PROPOSED ACTIVITIES:

1. **Elementary School Aged Children:** On Wednesday, May 18, 2011 Gary Holm, Director of Public Works will spend part of the afternoon with the elementary students in an event called Truck Tales at the Batavia Public Library. During this event he will read a story related to Stormwater issues, distribute pamphlets from APWA (American Public Works Association) and bring a snow plow for the children to view.
2. **Middle School Age Group:** We plan to work with their Ecology Club by distributing interactive worksheets, discussing civil engineering or participating in our Storm Stenciling Program.
3. **High School Age Group:** We are working with the teachers to determine what needs will best satisfy and correlate with their course work at this time as it relates to stormwater management.

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: Complete one property owner database each year with one educational mailing made and/or program held for that group of property owners that same year.

- Milestones:** **Year 1:** Complete database for property owners along the Mahoney Creek Tributary.
Year 2: Complete database for property owners along Batavia Creek.
Year 3: Complete database for property owners along Mahoney Creek.
Year 4: Complete database for property owners along McKee Road Tributary of Mill Creek.
Year 5: Complete database for property owners along the Mill Creek.

PROPOSED ACTIVITIES:

This year we will complete a database for the property owners along the McKee Road Tributary of Mill Creek and distribute a copy of the Watershed map for Mill Creek, Welcome to your Watershed Information, Fox River Watershed information, Top Ten Things Streamside and Shoreline Property Owners Can Do To Protect Kane County Waters in a mailing.

PERMIT CONDITION: BMP No. B6: Public Participation/Involvement: Program Coordination

The City of Batavia will continue to work with the Batavia Park District, local environmental groups, and individual citizens groups to organize and participate in clean ups and ecological restoration projects for the reaches of the Fox River and tributary streams that are within the City's jurisdiction.

Measurable Goal(s), including frequencies: Host at least two clean-up/restoration events each year.

- Milestones:** **Year 1:** Continue with at least two stream clean-up/restoration events.
Year 2: Continue with at least two stream clean-up/restoration events.
Year 3: Continue with at least two stream clean-up/restoration events.
Year 4: Continue with at least two stream clean-up/restoration events.
Year 5: Continue with at least two stream clean-up/restoration events.

PROPOSED ACTIVITIES:

1. **May 21, 2011 Fox River Trail Cleanup:** Scheduled clean-up of the trails and banks of the Fox River immediately south of 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 Stream Cleanup Events:** Additional clean-ups of the Fox River and tributary streams are possible, but we are not aware of any scheduled dates at this time.

PERMIT CONDITION : BMP No.B6: Public Participation/Involvement: Program Coordination

The City of Batavia has started a Storm Sewer Stenciling Program to get the community involved with marking all roadway storm sewers with manholes, catch basins and inlets within the City's limits. The marking states "DO NOT DRAIN DUMPS TO RIVER. This project will be coordinated from the Engineering Department and available to any resident or group in Batavia. The program got its start from the help of the Kane DuPage Soil and Water Conservation District by providing stencils, pamphlets and informational door hangers.

Measurable Goal(s), including frequencies: Paint at least two streets each year.

- Milestones:**
- Year 1:** BMP was not in place this year.
 - Year 2:** Continue with at least two street painting events.
 - Year 3:** Continue with at least two street painting events.
 - Year 4:** Continue with at least two street painting events.
 - Year 5:** Continue with at least two street painting events.

PROPOSED ACTIVITIES:

As of right now no groups are scheduled to stencil, but we anticipate at least 5-10 groups/outings to sign up throughout the stenciling season, weather permitting.

PERMIT CONDITION: BMP No. F5: Pollution Prevention/Good Housekeeping: Flood Management/ Assess Guidelines

The City of Batavia will continue 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 implementing study recommendations in the first fiscal year after the study is completed.

- Milestones:**
- Year 1:** As stated above.
 - Year 2:** As stated above.
 - Year 3:** As stated above.
 - Year 4:** As stated above.
 - Year 5:** As stated above.

PROPOSED ACTIVITIES:

1. **Possible Grants:** The City has been looking into applying for a 319 Grant in order to receive additional funds to improve the Mahoney Creek and Batavia Creek. Both Creeks are in need of stabilization measures, as well as routine maintenance of such items as gabion baskets, soil erosion and removal of silt build up around bridge structures. The City has yet to determine if we will go forward with either one of these locations. The application would need to be started shortly in order to submit by the August 1, 2011 deadline. If selected for the grant we will be working on improving this drainage area by implementing BMPs, possibly providing additional storage areas by dredging, stabilizing creek banks, upsizing and adding storm sewer in areas that are prone to flooding. These improvements will be expanded upon as the

application is being filed out.

Item E: - Permit Obligations Provided by Other Government Entity for 2010-2011

NPDES Phase II – 2010-2011 Kane County Activities

Kane County Department of Environmental and Building Management

General:

1. 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. This information is excerpted from the Kane County Department of Environmental and Building Management 2009 NOI to the NPDES Phase II Report.

CM 1: Public Education and Outreach:

1. Brochure Development and Distribution:

Two brochures were produced, printed and distributed, “Top Ten Things Streamside Property Owners Can Do” and “How to be a Clean Water Champion”, while “Kane County’s Guide to Living on a Waterway” was developed with members of the Friends of the Fox River, the Fox River Ecosystem Partnership, and the Kane-DuPage Soil & Water Conservation District. These brochures are readily available at the City of Batavia’s City hall as well as on Kane County’s Stormwater Management website: <http://www.co.kane.il.us/kcstorm/education/public/brochures.asp>

2. Speaker’s Bureau:

Kane County staff made presentations to local groups on an as-needed basis. They made presentations to the Illinois Association of Floodplain & Stormwater Managers. County staff held 1 MS4 Roundtable with information relevant to the NPDES Phase II programs in Kane County.

3. Other Public Service Announcement Activities:

a. School Education: The County has, in the past, contracted with the Kane-DuPage Soil & Water Conservation District (KDSWCD) to conduct related K-12 educational activities in Kane County schools. During 2008, the county has developed a website containing resources for stormwater education. The programs are specific to Kane County stormwater, water quality and general water and watershed educational topics. The website is located at: <http://www.co.kane.il.us/kcstorm/education/index.asp>

b. Public Education: The County published the annual edition of “Kane County Recycles” which includes information on household hazardous waste and used motor oil recycling programs. 90,000 copies were distributed in local newspapers and to county, municipal and township offices. The information contained in the Kane County Recycles publication can be found online at <http://www.co.kane.il.us/Environment/recycle/index.htm>.

c. Kane County’s Stormwater and Environmental Management Department maintains a website that includes information about, flooding and water conservation information for Kane County residents. The Kane County Environmental Management Department website address is www.co.kane.il.us/kcstorm/index.asp.

4. Tributary Signage:

In 2003, Kane County developed standard tributary identification signs featuring the winning artwork from a student poster contest. A total of 130 signs were placed at stream crossings since the beginning of the program. Kane County will still provide the design of the sign to municipalities that are still interested in participating in identifying the streams. The City of Batavia has placed numerous signs around town at all of our stream crossings, including Mill Creek, McKee Creek and Mahoney Creek.

CM 2: Public Involvement and Participation:

1. Stream Monitoring Program:

The Friends of the Fox River continued to operate its stream-monitoring network, although not under contract with Kane County. A total of 112 locations are now being monitored throughout Kane County. In 2006 Kane County assisted the Friends of the Fox River in assembling a website to display and disseminate data from the monitoring. The website link is http://www.friendsofthefoxriver.org/frwmn-sites/frwmn_main.htm

This year due to budgetary constraints, Kane County did not support this stream monitoring, but instead supported the efforts of the Fox River Study Group. The Group collects data and develops watershed models that demonstrate non-point source pollution sources. Kane County was able to secure \$50,000.00 from Kane County Riverboat Grant Fund to assist this program.

2. Storm Drain Stenciling Program:

Kane County along with Kane-DuPage Soil & Water District continues to make storm drain stenciling supplies available to local interested groups.

3. Other Public Participation/Involvement Activities:

- a. Used Motor Oil Program: The County conducted one drop-off event for used motor oil. 221 participants attended and 4000 gallons of motor oil was collected for recycling.
- b. The County continued its involvement of a comprehensive Household Hazardous collection program. A collection event for the county was suspended due to state funding problems, but the state still maintains a permanent drop-off facility in Naperville, IL every Saturday and Sunday. In addition the program still includes a door-to-door collection service for a limited number of communities in Kane County. A total of 2,763 households participated in this event in the past year.

Item F: - List of Construction Projects active for 2010-2011

The following is a list of projects that the City of Batavia had active during 2010-2011:

1. Braeburn Marsh Wetland Mitigation and Drainage Study/Improvements
2. Fermi Lab Drainage Study/Improvements
3. Drainage Program (minor drainage improvements for specific locations)
4. Street Program – Resurface
5. Deerpath Road Bridge Phase I Engineering
6. Windmill Lakes Detention Basin Retrofit