



# Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

### for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

*This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.*

Report Period: From March, 2016 To March, 2017

Permit No. ILR40 0510

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

Name: City of Belvidere Mailing Address 1: 401 Whitney Boulevard

Mailing Address 2: \_\_\_\_\_ County: Boone

City: Belvidere State: IL Zip: 61008 Telephone: 815-544-9256

Contact Person: Brent Anderson Email Address: banderson@ci.belvidere.il.us  
(Person responsible for Annual Report)

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

Belvidere

#### THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

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

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

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

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

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

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

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

  
Owner Signature:

Brent Anderson  
Printed Name:

5/9/17  
Date:

Director of Public Works  
Title:

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

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL  
COMPLIANCE ASSURANCE SECTION #19  
1021 NORTH GRAND AVENUE EAST  
POST OFFICE BOX 19276  
SPRINGFIELD, ILLINOIS 62794-9276

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

# ANNUAL FACILITY INSPECTION REPORT

March 2016 – March 2017

City of Belvidere

## SECTION A

No changes have been made.

## SECTION B

### Public Education and Outreach:

(A-1) The City continues to maintain a kiosk of information in the entry of City Hall, including stormwater and pollution prevention.

(A-1) We include a pollution prevention message on our water bills at least quarterly.

(A-3) Storm sewer pollution prevention is promoted on local cable access channel 20.

(A-6) Storm Sewer pollution prevention was discussed during our annual budget presentation.

### Public Participation/Involvement:

(B-1) Two representatives from the City are on the Regional Storm Water Management Committee, which is tasked with developing and maintaining the Boone County Comprehensive Stormwater Management Plan.

(B-1) One representative from the City is on the Northern Regional Groundwater Protection Planning Committee, which is tasked with public education and local government assistance in protecting the ground water resources of the northern region of Illinois.

(B-1) A link is maintained on the City's website for the Kishwaukee River Ecosystem Partnership (KREP).

(B-6) The Kishwaukee River Clean Up Day was held on July 16, 2016.

In addition to the above, the Boone County Conservation District (BCCD) and the Boone County Soil & Water Conservation District (BCSWCD) continue to provide public outreach relative to NPDES storm water requirements. Copies of their summaries of activities are attached.

### Illicit Discharge Detection and Elimination:

(C-1) Work continues on developing our City-wide GIS database storm sewer system map. RK Johnson & Associates is currently working on the southern portion of Storm Basin N-1.

(C-2) The Boone County Health Department continues to inspect, review and permit septic systems within the City watershed.

(C-2) Completed annual outfall inspections.

### Construction Site Runoff Control:

(D-1, D-2, D-3, D-4, D-6) We continue to enforce local ordinances 151.42 and 151.45 regulating stormwater runoff, sediment and erosion control. The Boone County Soil & Water Conservation District continues to review all subdivision plans and conducts on site inspections during construction on behalf of the City for sediment and erosion control.

**Post-Construction Runoff Control:**

(E-1) The Belvidere/Boone County Planning Department continues to administer the Boone County Comprehensive Plan.

(E-2, E-4) The City of Belvidere and the Boone County Soil and Water Conservation District continue to administer the regulation of storm water runoff facilities and the maximization of the water quality through the use of structural BMP's for all new developments and redevelopments.

(E-5, E-6) Completed maintenance inspections on active detention ponds.

**Pollution Prevention/Good Housekeeping:**

(F-1) Training of City employees in pollution prevention is ongoing.

(F-2) The City continues to sweep streets on a regular basis, conduct the fall leaf pickup program as well as conducting a branch pickup program twice a year.

(F-4) All fluids from City equipment maintained at the Street Department are collected and recycled.

The Best Management Practices (BMP's) outlined in the City's MS4 NPDES Permit provides the necessary guidance for the City to achieve the statutory goal of reducing the discharge of pollutants to the maximum extent practicable.

Through the activities of this reporting period, the City is taking positive steps in reaching the goal.

**SECTION D**

**SUMMARY OF STORM WATER ACTIVITIES 2017/2018**

**Public Education and Outreach:**

Maintain and distribute stormwater and pollution prevention resource material for citizens.

Maintain stormwater and pollution prevention information on City's website.

Include pollution prevention messages on water billings at least quarterly.

Post storm sewer pollution prevention information on public access cable channel 20 and the City's website.

BCCD & BCSWCD to continue their public education and outreach activities.

**Public Participation/Involvement:**

Attend Regional Storm Water Management Committee functions.

Attend Northern Regional Groundwater Committee functions.

Work release cleanup of specific areas of the City.

BCCD & BCSWCD to continue their public education and outreach activities.

**Illicit Discharge Detection & Elimination:**

Continue creation of digital map of City storm sewer system.

Continue outfall inspections.

**Construction Site Runoff Control:**

BCSWCD review and inspection of all development and redevelopment projects in the City.

Post-Construction Runoff Control:

Continue annual inspection of detention ponds that have been completed and accepted by the City.

Pollution Prevention/Good Housekeeping:

Continue employee training in pollution prevention.  
Sweep streets on a regular basis.  
Complete fall leaf pickup. (November)  
Complete branch pickup program (May/October)

SECTION F

Project: Main and Meadow Redevelopment – Brownfields Site  
Permit #: ILR10P521

Project: Columbia Avneue/Aspen Court Reconstruction Project  
Permit #: ILR10W260

# Summary Report For 2016

Boone County Conservation District (BCCD) Public Outreach Efforts Relative to:

1. Stormwater management best management practices
2. Erosion and sediment control
3. Preservation of surface and groundwater quality
4. Acquisition of important conservation lands to preserve and enhance ecological functions & values
5. Conversion of acquired cropland to native plant communities to implement Illinois State Wildlife Action Plan goals and objectives

## Educational Programs:

Program	Program Description	Target Audience	Date(s)	Number of Participants
Groundwater Festival	More than 600 Fourth and Fifth Grade Students, teachers, and chaperones from Boone, Winnebago and McHenry Counties attended the annual Groundwater Festival held at Rock Valley College. This event is organized and sponsored by several local agencies and organizations. The students, teachers, and guests travel to four different learning stations that have an expert demonstrator to discuss issues associated with water quality, groundwater infiltration and stormwater runoff, and much more.	Fourth and fifth grade classes from school districts within the region.	March 9 <sup>th</sup> , 2016	Over 600
Long Prairie Trail Clean-up	BCCD organizes an annual volunteer trail clean-up trash and debris along the trail. The trail crosses the Beaver Creek and Piskasaw Creek and numerous tributaries to them. This clean-up removes debris that might otherwise degrade these high quality streams.	General Public, Bike Clubs, Scout Groups, other Youth Organizations Regional Audience	April 23rd, 2016 8 a.m. to 2:30 p.m.	110 people
Flora Nature Preserve Clean-up	Volunteers attend to clean-up debris and litter; assist with the removal of invasive species, and learn about the ecological functions and values of a dolomite prairie. This includes discussions of groundwater recharge and the site's close association with the Troy Bedrock Valley.	General Public	February, 2016	41 participants
Kishwaukee River Clean-up	The BCCD publicizes, organizes and implements a river clean-up that invites the public to canoe the Kishwaukee River and pick-up trash between the canoe launch at Hickory Bill Island and the Distillery Road Conservation Area. Canoeists collected several truck-loads of debris.	General Public – Regional Audience	July 16th, 2016 9:00 a.m. to 2:00 p.m.	35 participants

Program	Program Description	Target Audience	Date(s)	Number of Participants
Boone County Fair	<p>The BCCD and the Northern Regional Groundwater Planning and Protection Committee rent a large tent and set-up a display. This year's theme was two-fold. Informing people about new conservation and existing conservation lands. Nearly all of these areas are located on the Kishwaukee River Watershed, including the high quality tributaries – Beaver Creek, Coon Creek, and Piskasaw Creek. BCCD properties provide many ecological functions and values including: storage and filtration of floodwaters; enhanced groundwater recharge due to native vegetation; habitat for a diverse range of plant and animal species, including many species listed as species of concern; all sites are located within an Illinois designated Conservation Opportunity Area; and most sites are open to passive public uses.</p> <p>The booth also featured presentations using a streambank erosion model with demonstrations by BCCD professionals.</p> <p>The Northern Regional Groundwater Committee provided information handouts and educational activity booklets for youth. The NRGPPC also held a daily drawing for a rain water collection system.</p>	General Public – Regional Audience	<p>August 8<sup>th</sup> through the 14<sup>th</sup>.</p> <p>Fair Booth was staffed from 9:00 a.m. to 9:00 p.m. each day</p>	Several Thousand visitors stopped at the booth
Tour of BCCD Sites	The BCCD held a tour of Conservation Areas for Rockford University Students. Stops included sites where best management practices have been installed to control streambank erosion; lands were acquired to preserve the Kishwaukee River Riparian corridor – including high quality wetlands; habitat restoration projects that reduce stormwater runoff, improve groundwater infiltration, natural storage and conveyance of floodwaters, and a host of other conservation functions and values.	Rockford University – Learning in Retirement Program	Tuesday, May 21 <sup>st</sup> .	14 Participants
Northern Regional Groundwater Planning and Protection Committee	This committee, established by the Illinois Groundwater Protection Act, serves as a regional resource to educate and promote BMP's that preserve the quality and quantity of our local groundwater resources. BCCD Executive Director serves as the Chairperson of this committee.	<p>General Public – Regional Audience</p> <p>Local Public Officials – Regional Audience</p> <p>Youth and Adult Education – Regional Audience</p>	Monthly, 2016	1000's annually

<b>Program</b>	<b>Program Description</b>	<b>Target Audience</b>	<b>Date(s)</b>	<b>Number of Participants</b>
Hooked on Fishing	BCCD in partnership with the Coon Creek Casters, a local conservation group, hosts an event to expose youth and their parents to fishing and appreciation of outdoor experiences. Ethical behaviors associated with natural resources are stressed as part of this experience.	Regional youth and their parents and guardians	June 4 <sup>th</sup> , 2016 Annual Event	162 youth 108 adult parents and guardians Dozens of mentors
Boone County Board of Realtors - Presentation	Presentation focused informing attendees about the importance, functions and values associated with wetlands, floodplains, stormwater management infrastructure, groundwater recharge other similar topics were covered.	Board of Realtors	June 14 <sup>th</sup> , 2016	Approximately 40 attendees
BCCD Summer Camp Programs	BCCD runs three different camps for different age levels throughout the summer. Each week long camp involves a conservation education theme. Every camp includes discussions on waste generation, proper disposal of their waste, and consequences of their actions relative to the natural environment and wildlife.	Camp Redwing – 5 weeks, ages 6 to 11 Camp Ducktails – 5 weeks, ages 4 & 5 Camp Redtail – 2 weeks, ages 12-15	Summer 2016	200 participants 12 staff
Illinois Extension Service: Master Naturalist Course	Course runs seven weeks meeting once each week. A wide range of natural resource topics are covered. BCCD Staff taught several sessions of this course including: Environmental Ethics; Native Habitats of Northern Illinois; Geology and Soils of Northern Illinois; and Native Cultural History.	Adult Education – general public	Spring & Summer 2016 Annual Activity	14 participants
Green Cities Campaign – IDNR Update to the State Wildlife Action Plan; And – Local Implementation Efforts	BCCD staff participated in a series of meetings with the Natural Land Institute, IDNR Technical Staff, the Winnebago County Forest Preserve District Staff, Rockford Park District Staff, and others to review and update the Green Cities Campaign (urban component of the State of Illinois Wildlife Action Plan).	BCCD Staff – on going effort – Native Seed Exchange; Collaborative Habitat Restoration; Pollinator Habitat; Removal of Invasive Species...	Monthly Meetings	~ 20 participants
Belvidere High School Environmental Club	BCCD staff assisted the BHS Environmental Organization (KARE) to conduct a clean-up at Spencer Conservation Area	KARE Club, including Advisor, BCCD staff	Tuesday, May 28 <sup>th</sup> 3:30 – 5:30 pm	~ 20 participants

Program	Program Description	Target Audience	Date(s)	Number of Participants
Boone County Expo A Boone County Chamber of Commerce Event	BCCD Staffs a Booth – provides information about BCCD programs and activities, promotes information about: water quality and Stormwater management; Native plant communities; Invasive Species Management; Camp Programs; BCCD Properties; and so much more.	General Public	Saturday, January 2016 All Day Event	Hundreds of participants

**Other Activities of the Boone County Conservation District that affect water quality preservation efforts:**

➤ **Land Acquisitions:**

- The BCCD Acquired 89-acres of property from Openlands in December 2016. This property is located along East County Line Road with the Kishwaukee River flowing across it. The site preserves important conservation lands; bottomland hardwood floodplain and wetlands occupy a significant area of this property. The BCCD will manage and enhance this site for natural ecological functions and values, as well as passive recreational activities.

➤ **Habitat Restoration:** The BCCD Natural Resource Department has several habitat restoration projects underway:

- **Piscasaw Fen** – Continued management and removal of invasive species on 30 acres of riparian corridor along Piscasaw Creek and associated wetlands. All cropland at this site has been restored to a very diverse, native plant community (more than 125 species of native plants). Project was completed in February 2015.
- **Piscasaw Fen** – Wetland restoration work was initiated in December 2015. Approximately six acres of wetlands will be restored in a prior converted agricultural field. Drain tile investigation was completed, monitoring wells are being installed, and woody invasive plants were removed as part of the initial work. New drain tile was installed with a watertable management structure to assist with groundwater management and facilitate existing drainage on adjacent properties.
- **LIB Conservation Area:** Restoration work involves removal of invasive species in the Kishwaukee bottomlands. Focus on removal of Japanese Honeysuckle, buckthorn, and other invasive, woody vegetation using a tracked skid steer with a Fecon mower attachment. District continues to monitor this restoration site to control re-sprouts of invasive plant species.
- **Kinnikinnick Creek Conservation Area:** A new United States Fish and Wildlife Service habitat restoration grant project has been initiated at this site. The new project will focus on restoring native habitat for pollinator species, including Monarch Butterflies and other species in greatest need of conservation. Other project work continues with the removal of invasive trees and shrubs, re-establishment of native hardwood forest and ground cover, to expand the buffer to the Kinnikinnick Creek Nature Preserve.
- **Distillery Road Conservation Area:** Also located in the Kishwaukee River Bottomlands across the Kishwaukee River from the LIB Conservation Area. Habitat restoration – Oak/Hickory Savanna and associated short prairie grassland. Several hundred-acre restoration to native plant ecology in a bottomland hardwood, grassland, and wetland complex.
- **Prescribed burning:** BCCD staff conducted prescribed burning at Piscasaw Fen, Distillery Road Conservation Area, Flora Prairie, Spencer Conservation Area, Kinnikinnick Creek Conservation Area, Ipsen Road Conservation Area and other sites to control invasive species and improve native habitat.



- **Kishwaukee Valley Conservation Area:** The Parks & Conservation Foundation applied for and received a \$32,000 Illinois Clean Energy Community Foundation Stewardship Challenge Grant. Six acres of habitat was enhanced by removing invasive vegetation, removing old fencing materials, cutting down and removing a non-native red pine plantation at the end of its life cycle. Frost seeding more than 125 species of native plants on a four-acre cropland area to expand and restore nesting habitat for the State Endangered Blanding's Turtle and other species in greatest need of Conservation as detailed in the Illinois Department of Natural Resource State Wildlife Action Plan. This project was completed in April 2017

## Summary Report for April 2016 to March 2017

### Boone County Soil & Water Conservation District Public Outreach Efforts Relative to NPDES Phase II Regulatory Requirements.

Program	Program Description	Target Audience	Date(s)	Number of Participants
Groundwater Festival	Each year District staff participates in the Youth Groundwater Festival. More than 400 fourth and fifth grade students, teachers and chaperones from Boone, Winnebago, and McHenry Counties attend. This event includes four different learning stations that have an expert demonstrator to discuss issues associated with water quality, groundwater infiltration and stormwater runoff.	Fourth and fifth grade classes from school districts within the region	March 8, 2016	630
Boone County Fair	The BCCD and Northern Regional Groundwater Planning and Protection Committee rented a tent and set-up displays that addressed specific issues related to water resources. The display included demonstrations with different models such as the groundwater model and information on a variety of topics related to water quality and quantity.	General Public	August 9-14, 2016	Several thousand during the course of the fair
Brochures	The District and Boone County Alliance for Clean Water updated a brochure for distribution at County offices for the general public providing information on BMPs and who to contact regarding water issues.	General Public	April 2016-March 2017	4 sites distributing brochures. Printed as needed.
Brochures	Boone County SWCD updated, edited, and printed brochures on Illicit Discharge, Fertilizers & Pesticides, Road Salt, Landscape and Water Conservation, and Hazardous Materials	General Public	July-October 2017	4 sites distributing brochures. Printed as needed.

<b>Program</b>	<b>Program Description</b>	<b>Target Audience</b>	<b>Date(s)</b>	<b>Number of Participants</b>
Medication Collection	The District conducted its sixth unused medication collection in Boone County. It was a collaborative effort with Keep Northern Illinois Beautiful, Belvidere Township and other sponsors. A large part of the effort is outreach and education on the problems with improper disposal of unused medications that make their way into our surface and groundwater. Outreach included sending flyers to churches, schools, media outlets, and businesses in Boone County regarding the collection.	General Public	June 11, 2016	Approximately 426 families participated
Medication Collection Brochures	Boone County Soil & Water Conservation District compiled, edited, and printed brochures on pharmaceuticals and groundwater protection.	General Public	May-June 2016	Available at the Medication Collection
Envirothon	Envirothon is a National competition for High School students on five subject areas: Aquatics, Forestry, Soils, Wildlife and a current topic. Its mission is "Fostering environmentally conscious decision making young adults". Our Northeastern event is bigger than the State Envirothon and Boone County sends two teams.	High School students and teachers	April 4 <sup>th</sup> & 6 <sup>th</sup> 2017	Approximately 200 – 250 students and teachers annually
Envirothon Presentations	The District visited high schools to provide information on the Envirothon to boost participation from Boone County.	High School students and teachers	November 2016: Belvidere High School	Approximately 10 from Belvidere North High School
	Additional visits provided soils education to Envirothon teams.	High School students and teachers	November 2016: Belvidere High School	Approximately 8 students from Belvidere High School

<b>Program</b>	<b>Program Description</b>	<b>Target Audience</b>	<b>Date(s)</b>	<b>Number of Participants</b>
Land Use Council 16 Leopold Education Project (LEP) Scholarship Presentation	The District visited local high schools to provide information on scholarship eligibility, application materials, and awards.	High school students, teachers, counselors	November 2016	Approximately 10
4-H Award & Recognition	Youth in 4-H complete projects in various topic areas and document completed projects to receive awards. Boone County SWCD sponsors an award for youth in the topics of: Entomology, geology, plant science, and natural resources.	Youth ages 8-18	October 2016	Approximately 50 youth, parents, 4-H leaders, and presenters. (About 200 total)
Soil Judging	Every year District and NRCS staff visits the High Schools in Boone County and provides information on soil judging for agricultural students and FFA members. Students compete in a regional soil judging contest which DeKalb SWCD hosted in 2015. Topics in the presentation include water quality and erosion and sediment control. Staff aided in DeKalb County event and prepared Boone County High School students.	High school students and teachers	October 2016	10 students
Erosion and Sediment Control Workshops	Boone County SWCD staff assisted in planning and hosting a workshop for engineers, consultants, site managers and contractors at Rock Valley College. This workshop directly addresses NPDES requirements and BMPs.	Engineers, consultants, site managers, contractors	March 8, 2017	Approximately 120
Erosion and Sediment Control Inspections	Boone County SWCD staff conducts inspections for compliance for erosion and sediment control as mandated by the Boone County Subdivision Code. Staff also reviews plans and follows up on the implementation of the plans.	Contractors, site managers, consultants	April 2016 through March 2017	Multiple sites, 14 inspections