



# 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 0646

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

Name: Village of Rochester Mailing Address 1: 1 Community Drive

Mailing Address 2: \_\_\_\_\_ County: Sangamon

City: Rochester State: IL Zip: 62563-0618 Telephone: 217-498-7192

Contact Person: Deborah Elderton Email Address: delderton@rochesteril.org  
(Person responsible for Annual Report)

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

Sangamon County State of Illinois

#### THE FOLLOWING ITEMS MUST BE ADDRESSED.

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

- |  |                          |   |                                     |
|--|--------------------------|---|-------------------------------------|
| 1. Public Education and Outreach             | <input 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 checked="" 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))**

Deborah R. Elderton  
Owner Signature:

May 30, 2017  
Date:

Deborah Elderton  
Printed Name:

Village Manager  
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.

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
ANNUAL FACILITY INSPECTION REPORT FOR:  
MARCH, 31 2016 TO MARCH 31, 2017  
NPDES PERMIT FOR STORM WATER DISCHARGES  
FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)  
ILR40-0646**

**ITEMS TO BE ADDRESSED BY THE VILLAGE OF ROCHESTER:**

- A. BMP F.2 (Maintain existing storm sewer, inlets & detention ponds) has been replaced with BMP F.4 (Disposal and reuse of used motor oil from Village fleet). BMP F.2 appears in the BMP Implementation Schedule for historical record, and BMP F.4 has been added to the schedule.**
  
- B. Status of compliance with permit conditions efforts to achieving BMPs is outlined in the attached BMP Implementation Schedule. Public Information meeting was held on March 27, 2017.**
  
- C. A memorandum of understanding (MOU) between the Village of Rochester and Rochester High School was approved on September 28, 2009 to facilitate water quality monitoring of local waterways. Sampling was conducted three times between September 23, 2016 and February 20, 2017. Results are attached. Results are also attached for BIRDS POND VLMP.**
  
- D. Also, see attached BMP Implementation Schedule.**
  
- E. Not Applicable.**
  
- F. Construction projects paid for by the Village of Rochester:
  - 1. Watermain Replacement on Walberta Drive and Sherry Lane**
  - 2. Southeast Regional Sewage Lift Station****

**Village of Rochester Stream Monitoring report by Rochester High School Envirothon Team.**

**Dates of Sampling:**

Date 1: 9-23-16

Date 2: 11-24-16

Date 3: 2-20-17 (unusually warm week for Feb)

Added Note: There are Beaver Dams North of the pump station. The water level is higher in Black Branch than in years past at the pump station.

Also, in Sept and Nov. there were baby diapers floating in the water at the Phillips 66 location.

\*\*\* Dissolved oxygen, Nitrate/Nitrite Phos. PO4 were collected using PASCO digital equipment.

Location	DO mg/L	TDS/ Cond. ppm	pH	BOD	E.Coli CPU/ 100ml	Turbidity NTU	Temp. C	Nitrate/ Nitrite	Phos. PO <sub>4</sub> ppm
Phillips 66									
Date 1	6.1	315.2	6.6		800	>1	20.6	2.0/0	10
Date 2	6.8	315.5	7.1		1000	1	14.8	1.8/0	10
Date 3	6.8	313.6	7.1		600	1	11.8	2.0/0	10
Mavis Dam									
Date 1	7.1	314.5	7.1		200	>1	19.8	1.7/0	5
Date 2	7.4	315.5	7.1		300	>1	14.4	2.0/0	5
Date 3	7.2	315.4	7.4		200	>1	13.8	1.8/0	5
Rt 29 Bridge									
Date 1	7.0	314.6	7.2		200	>1	21.2	1.7/0	5
Date 2	7.3	315.4	7.2		300	>1	13.6	1.8/0	5
Date 3	7.4	315.3	7.3		200	>1	11.7	1.8/0	5
Pump Station									
Date 1	6.2	315.4	7.3		300	1	22.4	1.7/0	10
Date 2	6.8	314.3	7.6		200	>1	14.0	1.7/0	10
Date 3	6.8	311.5	7.8		300	>1	11.8	1.7/0	10

## BIRDS POND

Phil Voth & Harry Hendrickson monitored and removed trash from the pond six times from March to September, each time measuring 17 parameters using the IEPA Volunteer Lake Monitoring protocol (VLMP). The pond was dyed blue on March 17 and the transparency went from 48" to 20" thereby reducing plant growth. The average transparency was 28". After the Marine Biochemists hooked up the aerator, the oxygen saturation ranged from 68% to 128% or 5.2 ppm to 11 ppm. There was virtually no pond stratification due to the aerators. The temperature ranged from 54 to 92 degrees Fahrenheit. Especially after heavy rains in June, the phosphorus (P) exceeded the 50 ppb maximum desirable level by as much as 10X. We know that P is the limiting nutrient for this pond and high levels result in excessive algae and waterweed growth. We have heard fewer complaints about excessive algae growth which covered more than 3% of the pond at times, but was less than previous years. To control it we must limit P input to the pond, by NOT USING FERTILIZER WITH PHOSPHORUS. Please **keep P out of our OND** and if you have a commercial lawn service, specifically require them to use a **NO P fertilizer**. Since most of PFPHA storm sewers drain into the pond, please remember that anything on the streets or runoff from your lot ends up in the pond. Our pond chemical applicator, Marine Biochemists, treated the pond at least monthly May to October with chelated copper sulfate (Cutrine plus) to reduce algae growth and occasionally with Aquathol (endothall) to reduce weeds. These treatments do not remove organic matter or nutrients from the pond, they just settle on the bottom. We also added 12 triploid (sterile) grass carp this

spring and have heard reports of them being sighted eating shallow weeds. There were no LEAP grants from IEPA this year despite their being pass-through federal funds, therefore no fish census or education events.

Fishing has been reported to be very good with great catches of large mouth bass and channel catfish.

**Our plan for 2017** is to dye the pond earlier, continue Marine Biochemists services, get the aerator repaired, continue monitoring, conduct a fish census and a pond education day, popular with youth.

IEPA Annual Facility Inspection Report for 2016 / 2017: NPDES Permit for Storm Water Discharges from MS4: Items B & D

BMP No.	BMP Description	Measureable Goal(s)	Milestones	Documentation Required	Timeline	Status of	Still	Progress
					March 31 to March 31	Compliance	Appropriate?	
A.1	Discuss stormwater issues and trends with Village Board and Public Works Committee	Continue to educate Village Officials and staff about stormwater issues	Select & discuss one article per year from professional publication	Provide copy of article discussed	2014 / 2015	Complete	Yes	Discussed proposed revisions to ILR40 MS4 permit on 06/23/2014 Discussed asset management for SW, Community Education Through Art, reducing runoff with vegetation and IL Urban Flooding Report Discussed attracting/retaining employees, LID systems, Adopt-a-Drain program. Discussed revisions to Village stormwater code on 8/22/2016. Future year Future year
			Select & discuss one article per year from professional publication		2015 / 2016	Complete	Yes	
			Select & discuss one article per year from professional publication		2016 / 2017	Complete	Yes	
			Select & discuss one article per year from professional publication		2017 / 2018	Incomplete	Yes	
			Select & discuss one article per year from professional publication		2018 / 2019	Incomplete	Yes	
A.6	Include stormwater information on Village website	Maintain "stormwater" tab to the Village website	Post general & updated stormwater information to Village website	Document updating efforts	2014 / 2015	Complete	Yes	See: <a href="http://www.rochesteril.org/Development/StormwaterManagement/tabid/94/Default.aspx">http://www.rochesteril.org/Development/StormwaterManagement/tabid/94/Default.aspx</a> See: <a href="http://www.rochesteril.org/Development/StormwaterManagement/tabid/94/Default.aspx">http://www.rochesteril.org/Development/StormwaterManagement/tabid/94/Default.aspx</a> Future year Future year
			Post general & updated stormwater information to Village website		2015 / 2016	Complete	Yes	
			Post general & updated stormwater information to Village website		2016 / 2017	Complete	Yes	
			Post general & updated stormwater information to Village website		2017 / 2018	Incomplete	Yes	
			Post general & updated stormwater information to Village website		2018 / 2019	Incomplete	Yes	
B.5	Volunteer monitoring of local streams and ponds	Engage the RHS in stream monitoring and PFPHA in monitoring wet bottom detention pond	Update intergovernmental agreements and provide direction on testing	Provide copy of Public of Public Works Committee meeting minutes	2014 / 2015	Incomplete	Yes	Delayed Monitoring performed by RHS staff & students Monitoring performed by RHS staff & students and Park Forest Place Homeowners Association Future year Future year
			Continue RHS & PFPHA monitoring of streams & ponds; compile data		2015 / 2016	Complete	Yes	
			Continue RHS & PFPHA monitoring of streams & ponds; compile data		2016 / 2017	Complete	Yes	
			Continue RHS & PFPHA monitoring of streams & ponds; compile data		2017 / 2018	Incomplete	Yes	
			Continue RHS & PFPHA monitoring of streams & ponds; compile data		2018 / 2019	Incomplete	Yes	
C.1	Maintain and update watershed and storm sewer mapping	Maintain & update watershed and storm sewer mapping	Continue updating mapping & storm sewer information as available	Provide copy of updated watershed & storm sewer system map	2014 / 2015	Complete	Yes	No new information provided or discovered No new watershed information. Storm sewer map updated to reflect Lost Bridge Trail parking lot detention and associated storm sewers. Future year Future year
			Continue updating mapping & storm sewer information as available		2015 / 2016	Complete	Yes	
			Continue updating mapping & storm sewer information as available		2016 / 2017	Complete	Yes	
			Continue updating mapping & storm sewer information as available		2017 / 2018	Incomplete	Yes	
			Continue updating mapping & storm sewer information as available		2018 / 2019	Incomplete	Yes	
C.2	Implement Illicit Discharge and Elimination Plan (IDDE)	Perform dry weather screening of stormwater outfalls & follow response procedures in IDDE plan	Perform dry weather screening & follow response procedures in IDDE	Provide copy of IDDE plan and inspection findings	2014 / 2015	Complete	Yes	Implementing IDDE plan Implementing IDDE plan Implementing IDDE plan Future year Future year
			Perform dry weather screening & follow response procedures in IDDE		2015 / 2016	Complete	Yes	
			Perform dry weather screening & follow response procedures in IDDE		2016 / 2017	Complete	Yes	
			Perform dry weather screening & follow response procedures in IDDE		2017 / 2018	Incomplete	Yes	
			Perform dry weather screening & follow response procedures in IDDE		2018 / 2019	Incomplete	Yes	
D.1 & D.2	Perform construction site inspections to ensure compliance with Village erosion and sediment control requirements - Chapter 35-11 and BMPs	Perform construction site inspections annually, as necessary	Enforce Village Code 35-11, as necessary	Provide copy of Code & enforcement efforts	2014 / 2015	Complete	Yes	Village Center development site inspected No new construction No new construction Future year Future year
			Enforce Village Code 35-11, as necessary		2015 / 2016	Complete	Yes	
			Enforce Village Code 35-11, as necessary		2016 / 2017	Complete	Yes	
			Enforce Village Code 35-11, as necessary		2017 / 2018	Incomplete	Yes	
			Enforce Village Code 35-11, as necessary		2018 / 2019	Incomplete	Yes	
D.4	Perform construction site plan reviews to ensure conformance with Village Code.	Review plans for disturbing activities proposed to disturb greater than 1 acre & 5,000 SF within 25 feet of watercourse, document outcome	Review construction site plans & document reviews as submitted	Provide copy of plan review comments by Village Engineer	2014 / 2015	Complete	Yes	No construction plans submitted for consideration this year No construction plans submitted for consideration this year No construction plans submitted for consideration this year Future year Future year
			Review construction site plans & document reviews as submitted		2015 / 2016	Complete	Yes	
			Review construction site plans & document reviews as submitted		2016 / 2017	Complete	Yes	
			Review construction site plans & document reviews as submitted		2017 / 2018	Incomplete	Yes	
			Review construction site plans & document reviews as submitted		2018 / 2019	Incomplete	Yes	
D.6	Inspect and enforce Village Code Chapter 35-11 - Soil & Erosion control through Public Works Department	Inspect construction activities and document incidences of non-compliance. Issue "stop work" orders as necessary	Performed by Building Inspector or Public Works Supt as needed	Provide notes from inspections and follow-up inspections	2014 / 2015	Complete	Yes	No violations observed No violations observed No violations observed Future year Future year
			Performed by Building Inspector or Public Works Supt as needed		2015 / 2016	Complete	Yes	
			Performed by Building Inspector or Public Works Supt as needed		2016 / 2017	Complete	Yes	
			Performed by Building Inspector or Public Works Supt as needed		2017 / 2018	Incomplete	Yes	
			Performed by Building Inspector or Public Works Supt as needed		2018 / 2019	Incomplete	Yes	
E.4	Review BMP Designs for proposed construction sites	Review BMP designs for proposed construction sites, as submitted	Perform BMP design review and document review comments & resolution	Provide copy of plan review letters and inspection notes	2014 / 2015	Complete	Yes	No construction plans submitted for consideration this year No construction plans submitted for consideration this year No construction plans submitted for consideration this year Future year Future year
			Perform BMP design review and document review comments & resolution		2015 / 2016	Complete	Yes	
			Perform BMP design review and document review comments & resolution		2016 / 2017	Complete	Yes	
			Perform BMP design review and document review comments & resolution		2017 / 2018	Incomplete	Yes	
			Perform BMP design review and document review comments & resolution		2018 / 2019	Incomplete	Yes	
E.6	Post-Construction Inspections	Inspect developments with previously approved BMPs	Perform inspections annually or more for sites deemed inadequate	Provide copy of field notes from inspection	2014 / 2015	Complete	Yes	No inspections required No inspections required No inspections required Future year Future year
			Perform inspections annually or more for sites deemed inadequate		2015 / 2016	Complete	Yes	
			Perform inspections annually or more for sites deemed inadequate		2016 / 2017	Complete	Yes	
			Perform inspections annually or more for sites deemed inadequate		2017 / 2018	Incomplete	Yes	
			Perform inspections annually or more for sites deemed inadequate		2018 / 2019	Incomplete	Yes	
F.2	Maintain existing storm sewer, inlets & detention ponds to ensure functionality	Clean 20% of storm sewers & inlets, inspect 20% of detention ponds	Clean 20% of sewers and inlets annually & inspect 20% of detention ponds	Provide copy of storm sewer & detention pond system map with progress	2014 / 2015	Incomplete	Yes	Unable to perform Unable to perform Cleaned all curb and gutter inlet grates Replaced by F.4 Replaced by F.4
			Clean 20% of sewers and inlets annually & inspect 20% of detention ponds		2015 / 2016	Incomplete	Yes	
			Clean 20% of sewers and inlets annually & inspect 20% of detention ponds		2016 / 2017	Incomplete	Yes	
			N/A		2017 / 2018	N/A	N/A	
			N/A		2018 / 2019	N/A	N/A	
F.4	Municipal Waste Disposal	Dispose of used motor oil from Village fleet. Reuse the oil to heat Village facility.	N/A	Document gallons of oil reused.	2014 / 2015	N/A	N/A	Was not part of BMP list Was not part of BMP list Was not part of BMP list Future year Future year
			N/A		2015 / 2016	N/A	N/A	
			N/A		2016 / 2017	N/A	N/A	
			Store oil safely until needed for heating Village facility.		2017 / 2018	Incomplete	Yes	
			Store oil safely until needed for heating Village facility.		2018 / 2019	Incomplete	Yes	