



May 26, 2016

Ms. Terri LeMasters
Illinois Environmental Protection Agency, DWPC
Compliance Assurance Section #19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

RE: Village of Carpentersville, NPDES Phase II Permit Compliance
HR Green Job No. 86160113

Dear Ms. LeMasters:

Enclosed please find the NPDES Phase II - Year 13 Annual Report for the Village of Carpentersville. As the representative of the Village of Carpentersville, HR Green, Inc. coordinated with the Village in the completion of the enclosed Annual Report for continued coverage under the General Permit, issued by the Illinois EPA.

If you have any questions, please contact me at 815-759-8370

Sincerely,

HR GREEN, INC.

A handwritten signature in black ink, appearing to read 'Logan Gilbertsen'.

Logan Gilbertsen, P.E., CFM
Water Resources Engineer

LRG/

Enclosure: Annual Facility Inspection Report

cc: Mr. Edward J. Szydlowski, Village of Carpentersville
Mr. Kevin Gray, Village of Carpentersville
Mr. Ajay Jain, HR Green

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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, 2015 To March, 2016

Permit No. ILR40 _____

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

Name: Village of Carpentersville Mailing Address 1: 1200 L. W. Besinger Drive

Mailing Address 2: _____ County: Kane

City: Carpentersville State: IL Zip: 60110 Telephone: 224-293-1613

Contact Person: Kevin Gray, P.E., CFM Email Address: kgray@vil.carpentersville.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)

Village of Carpentersville

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))

Kevin R Gray
Owner Signature:

Kevin Gray, P.E., CFM

Printed Name:

5/25/16
Date:

Asst. Director of Public Works/Village

Title:

EMAIL COMPLETED FORM TO: 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.

NPDES Phase II – Year 13 (2015-2016) Annual Update
Village of Carpentersville, Kane County

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Part A. Changes to Best Management Practices

There were no changes in Year 13 to the Best Management Practices (BMPs) that were outlined in the NOI permit for Years 11-15.

Part B. Status of Compliance with Permit Conditions

The status of BMPs and measurable goals performed in Year 13 are described below.

1. Public Education and Outreach

A.1 Distributed Paper Material

Measurable Goals: Include NPDES Phase II information in a Village wide newsletter and distribute it on a semi-annual basis or provide educational pamphlets at the Village application counter.

Status: The Village has continued to publish and distribute newsletters with articles informing residents on stormwater related topics. In the Spring 2015 newsletter an update about the Carpenter Creek project was published, this project is a stream restoration that is highly visible to residents. Additionally, information about the Fox River Planning Study was included in this newsletter. The Summer 2015 newsletter included an article about "10 Things You Can Do to Prevent Stormwater Runoff Pollution"

A.6 Other Public Education

Measurable Goals: Village will continue to maintain and update Engineering Standards, details and development codes on the Village's website.

Status: The Village Municipal Code, Engineering Standards and details are available on Village's website. This will continue to increase developer and contractor awareness of stormwater protection requirements and BMPs and will be updated on an as-needed basis. Many construction projects have included the installation of drainage structures with "Dump no waste, drains to river" imprinted in the structure. Inclusion of this imprint in castings will be considered in a future standards update. The Village also participates in the Adopt-A-Highway program which has been maintained through Year 13 and new signs were installed around the Village promoting the program. The Village constructed eight rain gardens in Carpenter Park and a 30' riparian buffer along Carpenter Creek in the park as a best management practice. These rain gardens and riparian buffer are highly visible to the public. Educational signs have been installed in Carpenter Park explaining the purpose of the riparian buffer and native plantings that have been installed along the creek.

2. Public Participation/Involvement

B.7 Village Board Meetings

Measurable Goals: Village will conduct a public meeting or public hearing and devote time to discussing its stormwater management plan. The Village will meet its own requirements for conducting public meetings or hearings.

Status: The Village currently holds bi-weekly meetings that are open to the public. During a public comment period the residents have the opportunity to address the Board on issues relating to stormwater pollution and management. These meetings are televised on cable television. The Village has also been an active participant in the current Fox River Study Group and the Fox River Corridor Plan by CMAP. The Fox River Corridor Plan was presented in detail at a Business Development Commission meeting on February 23, 2016.

3. Illicit Discharge Detection and Elimination

C.1 Storm Sewer Map Preparation

Measurable Goals: The Village will continue to maintain and update their digital storm sewer map. The map will be converted to a GIS based platform when funds/personnel become available.

Status: The Village currently has an AutoCAD based digital map of their storm sewer system. The map includes approximately 39 miles of mainline storm sewer, over 2,400 catch basins and inlets, and about 20 outfall locations. The map is updated annually as new storm sewers are discovered or constructed.

C.2 Regulatory Control Program

Measurable Goals: The Village will enforce an Illicit Discharge Detection and Elimination ordinance or similar code to prohibit non-storm water discharges into the MS4.

Status: The Village currently maintains and enforces Municipal Code, Section 13.04.300 which prohibits non-storm water discharges into the MS4. The Village also has a section of their Municipal Code (Section 13.20.100) which discusses penalties for violators. The Municipal Code will be updated on an as-needed basis.

C.3 Detection/Elimination Prioritization Plan

Measurable Goals: Implement the prioritization plan and update/modify, as needed.

Status: An implementation and prioritization plan has not yet been developed and the Village will make an effort to develop this in year thirteen. However, the Village Fire Department annually inspects all industrial, commercial, and retail business for chemical storage and required spill containment and protection. Certain businesses which deal with large amounts of chemicals are visited on a monthly basis. The Village requires permits for the storage and handling of hazardous materials. The Village will continue to inspect these high priority facilities for improper handling and disposal of hazardous materials and will update relevant municipal codes on an as-needed basis. Also, the Village has completed a 4-year sanitary sewer televising program to prioritize areas of sanitary sewer in need of lining. The Village will continue to line sewers as budget becomes available. Additionally, the Village Engineer has been developing a Standard Operating Procedure (SOP) for Drainage Maintenance. This SOP was completed in Year 13.

C.4 Illicit Discharge Tracing Procedures

Measurable Goals: The Village will continue to implement their Tracing Procedures

Status: Currently, the Village's Tracing Procedures include a member of Village staff responding to notification of a potential discharge. If a potential illicit discharge is found, the flow is followed upstream within the system until the source is located. Village staff may potentially use the Village's digital storm sewer map to more efficiently search for the source. The Village will continue to implement the Tracing Procedures and will continue to update/modify the Procedures, as needed. In addition, the Village initiated a stream screening program in October 2011.

C.5 Illicit Source Removal Procedures

Measurable Goals: The Village will continue to implement the Source Removal Procedures.

Status: Currently, the Village works with property owners to help with any required permitting required to get the illicit connection removed as quickly as possible. If the property owner is not willing to work with the Village to remove the source then the Village has Section 13.20.100 of their Municipal Code which allows for the violating parties to be fined. The Village has been and will continue to inspect the Removal Procedures. In the past year one illicit discharge of carpet cleaning substances was reported. The Village coordinated with the IEPA to address the illicit discharge which had been reported by a resident. The party responsible was warned by the IEPA and fines will be issued if the dumping continues.

C.7 Visual Dry Weather Screening

Measurable Goals: The Village will develop a scheduled program to periodically inspect all outfalls on a routine basis.

Status: The Village does not currently have an outfall inspection program however; outfalls are visited and inspected periodically. The Village will make an effort in year 14 to develop and implement an inspection program for all outfalls on a scheduled basis in conjunction with item C-3 above. Currently the Village visits the high priority sites on an as needed basis.

4. Construction Site Runoff Control

D.1 & D.2 Development Ordinances / Erosion and Sediment Control BMPs

Measurable Goals: The Village will update and enforce the Ordinance 05-13 "*Ordinance Adopting by Reference the Regulations of the Kane County Stormwater Management Ordinance*".

Status: The Village's Engineering Department will continue enforcing Ordinance 05-13. The Kane County SMO addresses all the requirements of the Construction Site Runoff Control Measure. The Village will continue to enforce the Ordinance and update it on an as-needed basis. The Village is a participating community in the National Flood Insurance Program (NFIP).

D.4 Site Plan Review Procedures

Measurable Goals: The Village will utilize and update the plan review checklists as required.

Status: The Village has developed standard forms for plan reviews consisting of check boxes, one of which is erosion control. For construction sites meeting the ILR10 threshold, a SWPPP is required during the plan review process. The SWPPP shall then be maintained and kept onsite by the contractor including inspection forms. The plans are reviewed by multiple Village staff including consultant staff who are Kane County Qualified Review Specialist to ensure all requirements are met. The Village will continue to review site plans and will update their procedures as needed. In addition, plans are reviewed for conformance with the Kane County Stormwater Management Ordinance by qualified review specialist.

D.6 Site Inspection / Enforcement Procedures

Measurable Goals: Develop and implement a set of standard site inspection and enforcement procedures.

Status: The Village conducts an initial erosion control inspection after the contractor has completed the installation of site erosion control measures. This inspection is required before the start of general construction; once the inspector is satisfied work may begin. If work has begun prior to these inspections a stop work order can be issued until compliance is achieved. The Village will continue to perform these site inspections and enforce proper site runoff control.

5. Post-Construction Runoff Control

E.1/E.2 Community Control Strategy / Regulatory Control Program

Measurable Goals: The Village will enforce the Ordinance 05-13 "*Ordinance Adopting by Reference the Regulations of the Kane County Stormwater Management Ordinance*".

Status: The Village's Engineering Department will continue enforcing Ordinance 05-13's stormwater program within the municipal limits. The Kane County SMO addresses all the requirements of the Post-Construction Site Runoff Control Measure. The Village will continue to enforce the Ordinance and update it on an as-needed basis.

E.3 Long Term O&M Procedures

Measurable Goals: Continue to enforce the required long term O&M procedures regarding post-construction runoff control.

Status: The Village requires a 15 month maintenance period after acceptance of public improvements for new developments. The developer is required to post bonds with the Village to ensure that the Village is satisfied with the work. During this 15 month period the Village inspects newly constructed storm sewers and detention/retention basins and holds the developer responsible for any corrections that are required. O&M plans have been incorporated into Covenants, Codes, and Regulations (CCR's) documents which hold property owners accountable for corrective and/or maintenance work. The Village also requires the establishment of Dormant Special Service Areas (SSA's) for all sited which require stormwater detention facilities. The Village will continue to enforce and update their O&M procedure requirements as needed.

E.5 Site Inspections During Construction

Measurable Goals: Conduct un-announced inspections by Village staff with relevant certifications.

Status: The Village performs un-announced site inspections to ensure that all the proper construction runoff control mechanisms are in place and functional. These inspections are performed by CISEC certified employees. If a site is found to be non-complaint the Village reserves the right to stop construction until deficiencies are corrected. The Village will continue to perform periodic un-announced inspections. For larger developments, the Village also holds weekly or bi-weekly onsite meetings with the developer/contractor to discuss all issues related to erosion control. On periodic occasions, the Village also verifies that the contractor is maintaining a copy of their SWPPP onsite including a record of inspections binder.

E.6 Post-Construction Inspections

Measurable Goals: Conduct final acceptance and end of 15 month maintenance period inspections.

Status: The Village requires a 15 month maintenance period after acceptance of public improvements for new developments. The developer is required to post bonds with the Village to ensure that the Village is satisfied with the work. During this 15 month period the Village inspects newly constructed storm sewers and detention/retention basins and holds the developer responsible for any corrections that are required. The developer is required to provide recordings proving that the system is functional, that there are no illicit discharges, and that the system is free from sediment. The Village will continue to inspect developments for the fore mentioned requirements.

6. Pollution Prevention/Good Housekeeping

F.1 Employee Training Program

Measurable Goals: Provide training to Village staff in relevant positions.

Status: The Village will continue to train employees in relevant public works positions to implement or utilize stormwater BMPs. Kevin Gray and Jack Clifton attended a training session hosted by the University of Wisconsin, Madison entitled *Managing Snow and Ice Control* on October 6-7, 2015. This training covered appropriate chloride uses and application rates.

F.2/F.3 Municipal Properties Operation, Inspection, and Maintenance Program

Measurable Goals: Continue the Storm Sewer System Cleaning Program (SSSCP) and maintain well-kept facilities to reduce the possibility of an illicit discharge source from a municipal facility.

Status: The Village has been working on the Village wide SSSCP and is expecting to complete a Standard Operating Procedure for drainage system maintenance. In Year 13, the Village repaired portions of storm sewer along Brook Street which were failing and causing increased sediment loads to enter Carpenter Creek. Public works has continued to perform street sweeping throughout the year to reduce the amount of sediment and debris entering the MS4. Snow and ice control has been geared to use less salt by focusing salt applications to main roads, intersections, and curves. The Village has also been using storm grates with imprinting stating that water drains to the River. Lastly, the Village has completed a river bank improvement project along the Fox River which included stabilizing the toe of slope with natural stone and incorporating native vegetation to reduce erosion. This was completed in two Village owned parks located along the Fox River. Lastly, the Village constructed 8 new dry wells to promote infiltration and groundwater recharge.

F.4 Municipal Operations Waste Disposal

Measurable Goals: Provide proper disposal methods for municipal operations waste.

Status: The Public Works Department utilizes approved recycling programs to dispose of fluids, batteries, tires, and other byproducts of vehicle maintenance. Materials collected from catch basins are disposed of in proper landfills. If the material is mostly organic (leaf, grass, etc.) it is composted. Any large wood material collected is sent to a local chipping facility and used as mulch. The Village will continue these practices and implement new ways of responsible operations waste disposal as they become available.

Part C. Information and Data Collection Results

The protocol established in the permit was followed; no illicit discharges were observed and no illicit discharges were tested.

Part D. Summary of Proposed Year 14 Stormwater Activities

Below are listed the various BMPs which have milestones to be completed in Year 14, as outlined in the NOI as part of the current NPDES permit that expires February 28, 2021. The specific milestone to be completed for each BMP is shown.

- A.1 – Include NPDES Phase II information in a Village wide newsletter and distribute it on a semi-annual basis or provide educational pamphlets at the Village application counter.
- A.6 – Continue to maintain and update Engineering Standards, details and development codes on the Village's website.
- B.3 - Participate in a local watershed group meeting or host a local watershed group meeting in a municipal facility.
- B.7 – Conduct a public meeting or public hearing on its proposed stormwater management plan. The Village will meet its own requirements for conducting public meetings or hearings.
- C.1 – Continue to maintain and update their digital storm sewer map. The map will be converted to a GIS based platform when funds/personnel become available.
- C.2 – Continue to Enforce an Illicit Discharge Detection and Elimination ordinance or similar code to prohibit non-storm water discharges into the MS4.
- C.3 – Develop and Implement the prioritization plan and update/modify, as needed
- C.4 – Continue to implement and update/modify Tracing Procedures
- C.5 – Continue to implement the Source Removal Procedures.
- C.7 – Develop a scheduled program to periodically inspect all outfalls on a routine basis.
- D.1&D.2 – Update and enforce the Ordinance 05-13 as required
- D.4 – Utilize and update plan review checklists as required.
- D.6 – Develop and implement a set of standard site inspection and enforcement procedures
- E.1&E2 – Enforce the Ordinance 05-13
- E.3 – Continue to enforce the required long term O&M procedures regarding post-construction runoff control.
- E.5 – Conduct un-announced inspections by Village staff with relevant certifications.
- E.6 - Conduct final acceptance and end of 15 month maintenance period inspections.
- F.1 – Provide training to Village staff who manage or are directly involved in the routine maintenance, repair or replacement of public surfaces.
- F.2-F.3 – Continue the Storm Sewer System Cleaning Program (SSSCP) and maintain well-kept facilities to reduce the possibility of an illicit discharge source from a municipal facility.
- F.4 – Provide proper disposal methods for municipal operations waste.

Part E. Notice of Qualifying Local Program

There are currently no Qualifying Local Programs that the Village wishes to rely on to meet the NPDES Phase II requirements.

Part F: Construction Projects Conducted During Year 13

In year 13 the Village initiated one project that required a Notice of Intent:

Facility:	Carpenter Park Phase 1 Renovation Carpentersville, IL
County:	Kane
NPDES Permit No:	ILR10U659

Facility:	Carpenter Creek Stream Restoration Carpentersville, IL
County:	Kane
NPDES Permit No:	ILR10V438

This project is currently under construction and is expected to be completed in June 2016. The native vegetation has a 10 year operations and maintenance program to ensure a successful project.