

ILLINOIS ENVIRONMENTAL AGENCY

ANNUAL REPORT

2022

NPDES PERMIT FOR STORMWATER DISCHARGES FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)

Algonquin, Illinois

A. CHANGES TO BEST MANAGEMENT PRACTICES

There are no changes to the BMP's for the six minimum control measures as submitted in the original NOI for Algonquin, Illinois as described in Part B of this Annual Report – Status of Compliance with Permit Conditions

B. STATUS OF COMPLIANCE WITH PERMIT CONDITIONS

Algonquin began the new five-year permit cycle in 2018 and is confident that the BMP's listed in the 2018 NOI and summarized below are the best choice to meet the requirements of the new NPDES Phase II Program to minimize nonpoint source pollution in Algonquin, Illinois. All BMP's have been implemented on schedule as described in Algonquin's 2018 NOI, with the exception of select items noted in their description below.

1. PUBLIC EDUCATION & OUTREACH

a. BMP A.1 – Distributed Paper & Electronic Material

Stormwater Pollution Article – Algonquin Citizen newsletter and e-newsletter

GOAL: To distribute to every household and business an educational article on stormwater runoff and pollution.

Milestones:

Years 1-5: Distribute the stormwater educational article through the Algonquin Citizen newsletter and the e-newsletter

RESULTS: We have again done this in 2022 resulting in 10,478 newsletters being sent that contain the article on stormwater pollution. We also sent 739 e-newsletters with the same educational information.

b. BMP A.1 – Distributed Paper Material

Calendar Annual Report

GOAL: The Village publishes a calendar each year that serves as its yearly annual report to all Village residents. Each year a month is dedicated to stormwater pollution, water quality, wetlands, etc.

Milestones:

Years 1-5: Continue to include article in the calendar.

RESULTS: The 2022 calendar includes one month that is dedicated to stormwater. This was distributed to 11,992 households.

2. PUBLIC PARTICIPATION/INVOLVEMENT

a. BMP B.3 – Stakeholder Meeting

Village Board Public Meetings

GOAL: The Village Board meets bi-monthly at the Village Hall to discuss Village Business. Many times the agenda involves stormwater management issues including water quality. Meetings are publicized in local newspapers and on the Village website and are open to the public for citizen comment.

Milestones:

Year 1-5: Continue to hold Village Board meeting twice per month.

RESULTS: Stormwater items in 2022 that went before the Board were Dixie Creek Reach 3 Streambank Restoration.

3. ILLICIT DISCHARGE DETECTION & ELIMINATION

a. BMP C.1 – Storm Sewer Map Preparation

Storm Sewer Mapping

GOAL: The Village has its storm sewer system mapped in GIS listing the size and location of all Village storm sewers. We continue to update this annually as new structures are added, eliminated or changed.

Milestones:

Years 1-5: Continue to QCQA the storm sewer layer on GIS

RESULTS: The Village was able to complete 420 edits to the storm sewer data.

b. BMP C.3 – Detection/Elimination Prioritization Plan

Illicit Discharge Detection

GOAL: To identify and stop illicit discharges of sanitary sewer during rain and high flow events. To correct these problems so sanitary sewage does not flow into surrounding streams, water bodies and protected groundwater and natural areas. Also to identify any illicit connections of sanitary sewer into the storm sewer system.

Milestones:

Years 1-5: Continue to inspect and prohibit any illegal discharges and implement findings in the study.

RESULTS: Due to budgeting constraints the Village did not perform any work this year.

c. BMP C.10 – Other Illicit Discharge Controls

Storm Drain Information Educational Outreach

GOAL: Use new storm sewer structures with cast in place logo that states “Do Not Dump – Drains to River” on all new developments and PW projects.

Milestones:

Years 1-5: Use new storm sewer structure on all new developments and projects.

RESULTS: The new structure was used in public works reconstruction projects development projects resulting in a total of 231 structures.

4. CONSTRUCTION SITE RUNOFF CONTROL

a. BMP D.1 – Regulatory Control Program

Kane County Stormwater Management Ordinance

GOAL: In 2002 the Village of Algonquin adopted the Kane County Stormwater Management Ordinance. This ordinance regulates construction site and post development stormwater runoff. The Village enforces this ordinance throughout the entire community and we are a certified community under the provisions of the ordinance. The Kane County Ordinance addresses all requirements of the construction site runoff control measures.

Milestones:

Years 1-5: Implement the Kane County Stormwater Ordinance Village wide.

RESULTS: The ordinance has been used in the engineering design and planning of all private developments and all public works projects this year.

5. POST-CONSTRUCTION RUNOFF CONTROL

a. BMP E.2 – Regulatory Control Program

Kane County Stormwater Management Ordinance

GOAL: In 2002 the Village of Algonquin adopted the Kane County Stormwater Management Ordinance. This ordinance regulates construction site and post development stormwater runoff.

The Village enforces this ordinance throughout the entire community and we are a certified community under the provisions of the ordinance. The Kane County Ordinance addresses all requirements of the construction site runoff control measures.

Milestones:

Years 1-5: Implement the Kane County Stormwater Ordinance Village wide.

RESULTS: The ordinance has been used in our monthly and weekly soil erosion and sediment control inspections and has been used to enforce violations and shut down construction sites for non-compliance.

6. POLLUTION PREVENTION/GOOD HOUSEKEEPING

a. BMP F.1 – Employee Training Program

Workshops and Employee Education

GOAL: To educate public works employees on stormwater runoff, water quality, wetland and riparian areas, maintenance of these areas and how this ties into NPDES Phase II.

Milestones:

Years 1-5: Attend training workshop that address the issues above.

RESULTS: The Streets Department in public works sent 2 new employees to the Sensible Salting Workshop held by the McHenry County Highway Dept.

b. BMP F.2 – Inspection & Maintenance Program

Cleaning & Inspection of Storm Structures

GOAL: To visually inspect and clean storm sewer structures and outfalls that are owned by the Village. This includes removing floatables and sediment from Stormceptor structures, removal of leaves and other debris from manholes and other catch basins and clearing outfalls of debris and sediment.

Milestones:

Years 1-5: Continue annual program to inspect and clean storm structures.

RESULTS: The Village cleaned 1,000 storm structures in 2022 removing 70 yards of dirt, silt and garbage.

c. BMP F.2 – Inspection & Maintenance Program

Street Sweeping

GOAL: To minimize pollutant export from municipal owned parking lots and streets.

Milestones:

Years 1-5: Sweep streets and parking lots once per month during non-winter months.

RESULTS: Streets and parking lots were swept once per month during non-winter months.

d. BMP F.3 – Municipal Operations Stormwater Control

Road Salt Application and Storage

GOAL: Salt is stored indoors throughout the year to minimize concentrated salt washoff into the MS4. Each year, the Village of Algonquin calibrates the salt dispensing rate of each snow plow truck. Each snow plow driver is given yearly training on snow plow operations which includes salt rates and dispensing. We currently dispense an average of 300 pound per lane mile.

Milestones:

Years 1-5: Calibrate trucks and attend yearly training.

RESULTS: The Village of Algonquin carried out the road salt application and storage activities as stated.