

# *Village of Alsip*

IEPA NPDES General Permit No. ILR40-0279

## **Storm Water Management Program (SWMP)**

For discharges from Small Municipal Separate Storm Sewer Systems (MS4)

**March 2013 to March 2022**

**December 17th, 2021**

### **A. General Information**

1. Storm Water Management Program contact:

Name: Michael Fraider  
Title: Public Works Superintendent  
Mailing Address: Village of Alsip  
12221 S. Orchard Avenue  
Alsip, IL. 60803  
Public Works Dept.: 708-385-6902  
Email Address: [mfraider@villageofalsip.org](mailto:mfraider@villageofalsip.org)

2. State Authority Contact:

Name: Mr. Alan Keller, PE  
Title: Manager, Permit Section  
Mailing Address: Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Permit Section  
P. O. Box 19276  
Springfield, IL 62794-9276  
Email Address: [epa.ms4noipermit@illinois.gov](mailto:epa.ms4noipermit@illinois.gov)

### **B. Governmental entities in which MS4 is located:**

Cook County

### **C. Names of known receiving waters:**

1. Calumet Sag Channel
2. Stony Creek
3. Unnamed Tributary to Stony Creek
4. Unnamed Tributary to Calumet-Sag
- 5.

**D. Storm Water Management Program Requirements:**

1. The [Village] must develop, implement, and enforce a storm water management program designed to reduce the discharge of pollutants from [its] small municipal separate storm sewer system (MS4) to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act. The storm water management program must include the 6 Minimum Control Measures (MCMs). The U.S. Environmental Protection Agency's National Menu of Storm Water Best Management Practices (<http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm>) and the most recent version of the Illinois Urban Manual should be consulted regarding the selection of appropriate BMPs.
2. You may partner with other MS4s to develop and implement your storm water management program.
3. For further details on the requirements for each of the 6 MCMs, please refer to the latest version of the General NPDES Permit No. ILR40.

**E. Minimum Control Measures (MCMs):**

1. Public Education and Outreach – (MCM 1)
2. Public Participation/Involvement – (MCM 2)
3. Illicit Discharge Detection and Elimination – (MCM 3)
4. Construction Site Runoff Control – (MCM 4)
5. Post-Construction Runoff Control – (MCM 5)
6. Pollution Prevention/Good Housekeeping – (MCM 6)

**F. Best Management Practices (BMPs):**

**A. Public Education and Outreach**

- ☒ A.1 Distributed Paper Material
- ☐ A.2 Speaking Engagement
- ☐ A.3 Public Service Announcement
- ☐ A.4 Community Event
- ☐ A.5 Classroom Education Material
- ☒ A.6 Other Public Education

**B. Public Participation/Involvement**

- ☐ B.1 Public Panel
- ☐ B.2 Educational Volunteer
- ☐ B.3 Stakeholder Meeting
- ☒ B.4 Public Hearing
- ☐ B.5 Volunteer Monitoring
- ☐ B.6 Program Coordination
- ☒ B.7 Other Public Involvement

**C. Illicit Discharge Detection and Elimination**

- ☒ C.1 Storm Sewer Map Preparation
- ☒ C.2 Regulatory Control Program
- ☐ C.3 Detection/Elimination Prioritization Plan
- ☐ C.4 Illicit Discharge Tracing Procedures
- ☐ C.5 Illicit Source Removal Procedures
- ☐ C.6 Program Evaluation and Assessment
- ☒ C.7 Visual Dry Weather Screening
- ☐ C.8 Pollutant Field Testing
- ☐ C.9 Public Notification
- ☒ C.10 Other Illicit Discharge Controls

**D. Construction Site Runoff Control**

- ☒ D.1 Regulatory Control Program
- ☒ D.2 Erosion and Sediment Control BMPs
- ☐ D.3 Other Waste Control Program
- ☒ D.4 Site Plan Review Procedures
- ☐ D.5 Public Information Handling Procedures
- ☒ D.6 Site Inspection/Enforcement Procedures
- ☐ D.7 Other Construction Site Runoff Controls

**E. Post-Construction Runoff Control**

- ☐ E.1 Community Control Strategy
- ☒ E.2 Regulatory Control Program
- ☒ E.3 Long Term O&M Procedures
- ☒ E.4 Pre-Const Review of BMP Designs
- ☒ E.5 Site Inspections during Construction
- ☒ E.6 Post-Construction Inspections
- ☐ E.7 Other Post-Const Runoff Controls

**F. Pollution Prevention/Good Housekeeping**

- ☒ F.1 Employee Training Program
- ☒ F.2 Inspection and Maintenance Program
- ☒ F.3 Muni Operations Storm Water Control
- ☒ F.4 Municipal Operations Waste Disposal
- ☒ F.5 Flood Management/Assess Guidelines
- ☐ F.6 Other Municipal Operations Controls

Statement of Fairness – All BMPs shall and will be implemented, conducted, regulated, or enforced fairly throughout the entire Village as appropriate and applicable.

Revisions – BMPs C3, C4, and C5 may be added to the program in 9/2019 or possibly as part of the next NOI.

## MCM 1

### 1. Public Education and Outreach

#### A1: Distributed Paper Material (Newsletters or Brochures)

1. Description of BMP:  
The Village Newsletter, will be used to provide storm water and cleanup information on a variety of topics to the public. Public Works items, duties, and concerns may also be highlighted from time to time. The newsletters and event flyers will be posted on the Village website.
2. Target Audience: Village residents and business owners
3. Measurable Goals:
  - a. Quantity of articles
  - b. Frequency of distribution
  - c. Public awareness
4. Schedule:
  - a. Ongoing
  - b. Articles to be included at least two times per year
  - c. Begun in previous cycles

#### A6: Other Public Education (Website)

1. Description of BMP:  
The Village website will be used throughout the year to post a variety of stormwater, flooding, and public works information. Information regarding public services such as garbage collection, yard waste pickup, parkway tree planting, sewer systems, etc. will be posted.
2. Target Audience: Village residents and business owners
3. Measurable Goals:
  - a. Website hits and usage
  - b. Public awareness
4. Schedule:
  - a. Ongoing
  - b. To be used throughout the year



- c. Begun in previous cycles

## MCM 2

### 2. Public Education and Outreach

#### B4: Public Hearing

1. Description of BMP:  
The Village will hold an annual informational Public Hearing that will be used to inform the public about such topics as the MS4 program, stormwater, flooding, pollution control, etc. The forum for the meeting will be before or during a typical Board/Council meeting. The meeting will be publicized in the local newspaper and minutes will be taken.
2. Target Audience: Village residents and Board/Council members
3. Measurable Goals:
  - a. Number of participants
  - b. Public awareness
  - c. Meeting agendas and minutes
4. Schedule:
  - a. Ongoing
  - b. Hold public hearing annually

#### B7: Other Public Involvement (Public Parkway Tree Planting)

1. Description of BMP:  
As part of a "Go-Green" initiative, the Village will involve the public in environmental awareness via its Parkway Tree Planting Program. The Village will plant a new tree to any resident that requests one for the parkway. The Village website will be used to publish information related to this program and other public awareness items.
2. Target Audience: Village residents
3. Measurable Goals:
  - a. Number of trees planted
  - b. Public awareness and involvement
4. Schedule:
  - a. Ongoing
  - b. Begun in previous cycles

## MCM 3

### 3. Illicit Discharge Detection and Elimination

#### C1: Storm Sewer Map

1. Description of BMP:

The Village has an updated Storm Sewer Map that is GIS-based map system. The Village continues to update its storm sewer atlas that shows the location of all outfalls, numbers the outfalls with unique identifiers, shows the location and names of all receiving waters that receive discharges from the outfalls, shows storm structures and numbers them with unique identifiers, and shows pipe sizes and lengths.

2. Measurable Goals:

- a. Update storm sewer atlas
- b. Review annually

3. Schedule:

- a. Maintain storm sewer atlas
- b. On a yearly basis, compile new updates to be added to the atlas
- c. Perform file update (as needed) at least once every 5 years.

#### C2: Regulatory Control Program (Ordinance)

1. Description of BMP:

The Village ordinance, Water and Sewer Regulations, includes portions that address issues related to illicit Discharge. The Village will continue to enforce this ordinance and other development ordinances that include soil erosion and sediment control through its plan review process. The Village ordinances will be posted on the Village website. The Village will periodically review the regulatory program and ordinance adequacy and make any updates or revisions as needed.

2. Measurable Goals:

- a. Ordinance effectiveness
- b. Current applicability

3. Schedule:

- a. Ongoing enforcement of all Village ordinances
- b. Review the regulatory program and ordinance adequacy in the third year of the permitting cycle
- c. Perform file update (as needed) at least once every 5 years as needed

#### C7: Visual Dry Weather Screening

1. Description of BMP:

The dry weather screening program will consist of inspecting outfalls and logging the results on an appropriate inspection form. Photos of the outfalls will be taken. The target goal is that the Village outfalls are to be inspected every other year. Any discovered illicit discharges will flag the outfall for follow-up tracing and elimination procedures; however, these BMPs are not yet established.

2. Measurable Goals:

- a. Clean outfalls
- b. Inspection of outfalls every other year

3. Schedule:

- a. Perform inspections in dry weather times throughout the year, but primarily in the months of May or June
- b. Outfall inspections to be performed every other year

**C10: Other Illicit Discharge Controls (Visual Monitoring Inspections)**

1. Description of BMP:

Visual Monitoring Inspections at upstream and downstream locations along receiving watercourses would be performed as part of this BMP.

2. Measurable Goals:

- a. Illicit discharge detection
- b. Identification of potential source location

1. Schedule:

- a. Perform monitoring annually
- b. Alternatively, may coincide with biennial outfall inspections



## MCM 4

### 4. Construction Site Runoff Control

#### D1: Regulatory Control Program (Soil Erosion and Sediment Control Ordinance)

1. Description of BMP:

The Village ordinance, Erosion and Sediment Control, regulates soil erosion and sediment control in runoff from construction sites. The Village continues to enforce this ordinance and other development ordinances through the plan review process. The Village ordinances are posted on the website. Article 4 of the Watershed Management Ordinance (WMO) used by MWRD is also in effect and regulates erosion and sediment control.

2. Measurable Goals:

- a. Ordinance enforcement through the plan review process
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic review of ordinance effectiveness and applicability

#### D2: Erosion and Sediment Control BMPs

1. Description of BMP:

Erosion and Sediment Control BMPs are required under the current ordinances and these requirements are enforced through the plan review process. Required site BMPs will be reviewed for effectiveness. Consideration will be given for any changes in the requirements warranted due to new or emerging technologies.

2. Measurable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic review of ordinance effectiveness and applicability

#### **D4: Site Plan Review Procedures**

1. Description of BMP:

Development plans will continue to be reviewed under local and county ordinances by Village Staff and engineering consultants, especially regarding stormwater and erosion and sediment control measures. Projects over one acre will continue to be required to submit a Notice of Intent prior to construction. A SWPPP is required with plan sets.

2. Measurable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic review of ordinance effectiveness and applicability

#### **D6: Site Inspection/Enforcement Procedures**

1. Description of BMP:

Weekly inspection reports will continue to be required from developers of active projects. Periodic or surprise audit inspections are conducted by the Village as needed. The inspections will typically be documented on appropriate forms. Developers will be informed of any noted deficiencies in their site's erosion and sediment control measures. Copies of the documentation will be filed.

A graduated step approach with escalation in enforcement measures will be used to achieve compliance, such as initial reporting of deficiencies, notification of possible enforcement measures such as stop work orders and ticketing by the Police Department, drawing on Letter of Credit monies to have the measures implemented, and potential legal proceedings.

2. Measurable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic inspections will be conducted as deemed necessary depending on level of activity at a site and on weather conditions
- c. Inspections of sites for which the Village is responsible will be conducted weekly and after 0.5" or greater rain events

## MCM 5

### 5. Post-Construction Runoff Control

#### E2: Regulatory Control Program (Soil Erosion and Sediment Control Ordinance)

1. Description of BMP:

The Village ordinance, Control of Post-Construction Storm Water Runoff, regulates post construction runoff and is applied in conjunction with Village ordinance, Erosion and Sediment Control, to control soil erosion and sediment control in runoff from construction sites. The Village continues to enforce this ordinance and other development ordinances through the plan review process. The Village ordinances are posted on the website. Article 4 of the Watershed Management Ordinance (WMO) used by MWRD is also in effect and regulates erosion and sediment control.

2. Measurable Goals:

- a. Ordinance enforcement through the plan review process
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic review of ordinance effectiveness and applicability

#### E3: Long Term O&M Procedures

1. Description of BMP:

Long Term Operation and Maintenance Procedures related to erosion and sediment control are required under the current ordinance and these requirements are enforced during the plan review process prior to construction.

2. Measurable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic review of ordinance effectiveness and applicability

#### E4: Pre-Construction Review of BMP Designs

4. Description of BMP:

Erosion and Sediment Control BMPs are required under the current ordinance and these requirements are enforced through the plan review process prior to construction. Required site BMPs will be reviewed for effectiveness. Consideration will be given for any changes in the requirements warranted due to new or emerging technologies.

5. Measurable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

6. Schedule:

- a. Ongoing enforcement
- b. Periodic review of ordinance effectiveness and applicability

## **E5: Site Inspections During Construction**

1. Description of BMP:

Weekly inspection reports will continue to be required from developers of active projects. Periodic or surprise audit inspections will be conducted by the Village as needed during the construction process. The inspections will typically be documented on appropriate forms. Developers will be informed of any noted deficiencies in their site's erosion and sediment control measures. Copies of the documentation will be filed.

A graduated step approach with escalation in enforcement measures will be used to achieve compliance, such as initial reporting of deficiencies, notification of possible enforcement measures such as stop work orders and ticketing by the Police Department, drawing on Letter of Credit monies to have the measures implemented, and potential legal proceedings.

2. Measurable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic inspections will be conducted as deemed necessary depending on level of activity at a site and on weather conditions
- c. Inspections of sites for which the Village is responsible will be conducted weekly and after 0.5" or greater rain events

## **E6: Post-Construction Inspections**



1. Description of BMP:

Post-construction BMPs and facilities including storm sewer systems, grading, and stormwater detention facilities will be inspected after the sites are completed and the request for the acceptance of the development is received. Final inspections will be part of any newly constructed development.

Furthermore, the goal is to inspect the existing public and accessible private stormwater management systems throughout the year. Storm sewers and structures will be cleaned, vacuumed, or jetted as needed.

2. Measurable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Developments will receive final acceptance and release of the development security only after punch lists and any deficiencies are corrected. The developments will also be inspected before the expiration of the maintenance bond that is put in place after acceptance.
- c. Inspect existing systems throughout the year



## MCM 6

### 6. Pollution Prevention and Good Housekeeping

#### F1: Employee Training Program

1. Description of BMP:

Appropriate employees will be provided training for pollution prevention measures, such as training in the use of salt spreading, distribution rates, proper snow-plowing, procedures for disposal of oil, salt storage, fuel dispensing, and handling of solvents.

Appropriate employees will be provided refresher training or information to reinforce the established pollution measures in place. This may involve the use of various videos applicable to the subject matter.

2. Measurable Goals:

- a. Conduct at least one training session per year
- b. Informed staff

3. Schedule:

Summer or fall on an annual basis

#### F2: Inspection and Maintenance Program

1. Description of BMP:

Routine inspection and maintenance of Village streets, storm sewers, storm inlets and catch basins, ditches, swales, and stormwater detention facilities are part of the typical Public Works responsibilities. This includes street sweeping, storm structure vacuuming, jetting, or repair, and debris, branch and leaf collection. Systems and facilities are primarily under continuous surveillance rather than on a rigidly established schedule; however, some scheduling is involved.

2. Measurable Goals:

- a. Keep Village systems in top operating condition
- b. Reduced pollutants or contaminants

3. Schedule:

- a. Ongoing and as needed
- b. Street-sweeping – this will be performed daily by Material Services on main streets and monthly on side streets per an Agreement with Material Services
- c. Inlets/Catch Basins – will be inspected and maintained as needed throughout the year – needed repairs may be performed in-house or by contractor –

- cleaning, when performed, is generally performed during the months of May through August
- d. Storm sewers – will be inspected and cleaned or jetted on an as needed basis throughout the year – significant maintenance issues may not be able to be repaired immediately and may require special budgeting and scheduling depending on severity and impacts to drainage
  - e. Detention ponds/basins – Village-owned detention basins will be inspected periodically and maintained as needed – debris will be cleared from outlets as necessary to promote proper drainage. Other detention basins will be similarly inspected and maintained if proper easements allow for Village access.
  - f. Culverts – if under Village control, will be inspected and debris removed as needed
  - g. Ditch, swale or creek cleaning – will be inspected and cleaned as needed as staffing allows

### **F3: Municipal Operations Storm Water Control**

1. Description of BMP:

The BMPs for municipal operations for stormwater control will be reviewed for effectiveness and audited for compliance with the program. Revisions will be made as necessary. Typical municipal operations will continue to adhere to established and known stormwater control measures.

2. Measurable Goals:

- a. Program effectiveness
- b. Program compliance
- c. Reduced pollutants or contaminants

3. Schedule:

- a. Ongoing
- b. Yearly review to take place in February or March

### **F4: Municipal Operations Waste Disposal**

1. Description of BMP:

The BMPs for municipal operations for waste control will be reviewed for effectiveness and audited for compliance with the program. Revisions will be made as necessary. Typical municipal operations will continue to adhere to established and known waste disposal measures. Waste disposal is typically logged and may be handled directly by Village staff or through a contracted disposal service. Fluids such as oil and coolant from vehicle maintenance are collected and disposed of according

to typical methods as mentioned above. Double or triple basins are routinely cleaned according to typical procedures. Spilled fuel is mopped up with an absorbent product or similar material and disposed of properly.

2. Measurable Goals:

- a. Program effectiveness
- b. Program compliance
- c. Reduced pollutants or contaminants

3. Schedule:

- a. Ongoing
- b. Yearly review to take place in February or March

### **F5: Flood Management/Assessment Guidelines**

1. Description of BMP:

The Village Ordinance includes, Flood Hazard Regulations, which enforces floodplain and flood hazard regulations for any development in or near to floodplains. The WMO is also applicable and enforced with new developments. Development plans will be reviewed for compliance with applicable ordinances and policies regarding flood management and for compliance with IDNR-OWR and FEMA regulations. Where applicable, developers will be required to submit for and obtain a Letter of Map Revision (LOMR) from FEMA.

2. Measurable Goals:

Reduced flooding and flood reduction

3. Schedule:

- a. Ongoing
- b. Development reviews as needed by Village staff and Village engineering consultant, Robinson Engineering.

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**G. Monitoring, Recordkeeping, and Reporting:**

1. Monitoring:

Monitoring shall include at least annual monitoring of receiving waters upstream and downstream of the MS4 discharges, use of indicators to gauge the effects of stormwater discharges on the physical/habitat-related aspects of the receiving waters, and/or monitoring of the effectiveness of the BMPs.

2. Recordkeeping:

- a. The Village must keep records required by the ILR40 permit for the duration of the permit.
- b. All records shall be kept onsite or locally available and shall be made accessible to the Agency (IEPA) for review at the time of an on-site inspection.
- c. Except as otherwise required by the ILR40 permit, the Village must submit its records to the IEPA only when specifically asked to do so.
- d. As required by the ILR40 permit, the following (at a minimum) must be posted on the Village website:
  - i. Current Notice of intent (NOI)
  - ii. Storm Water Management Program/Plan (SWMP)
  - iii. Annual reports
- e. Storm sewer maps may be withheld for security reasons

3. Reporting:

- a. The Village must submit annual reports to the IEPA by the first day of June (**June 1**) for each year that the ILR40 permit is in effect.
- b. If the Village maintains a website, a copy of the annual report shall be posted on the website by June 1 of each year.
- c. Each report shall cover the period from March of the previous year through March of the current year. Please refer to the ILR40 permit for the list of items the annual report must include.



