

# **S** *stormwater* **M** *management* **P** *program* **P** *plan*



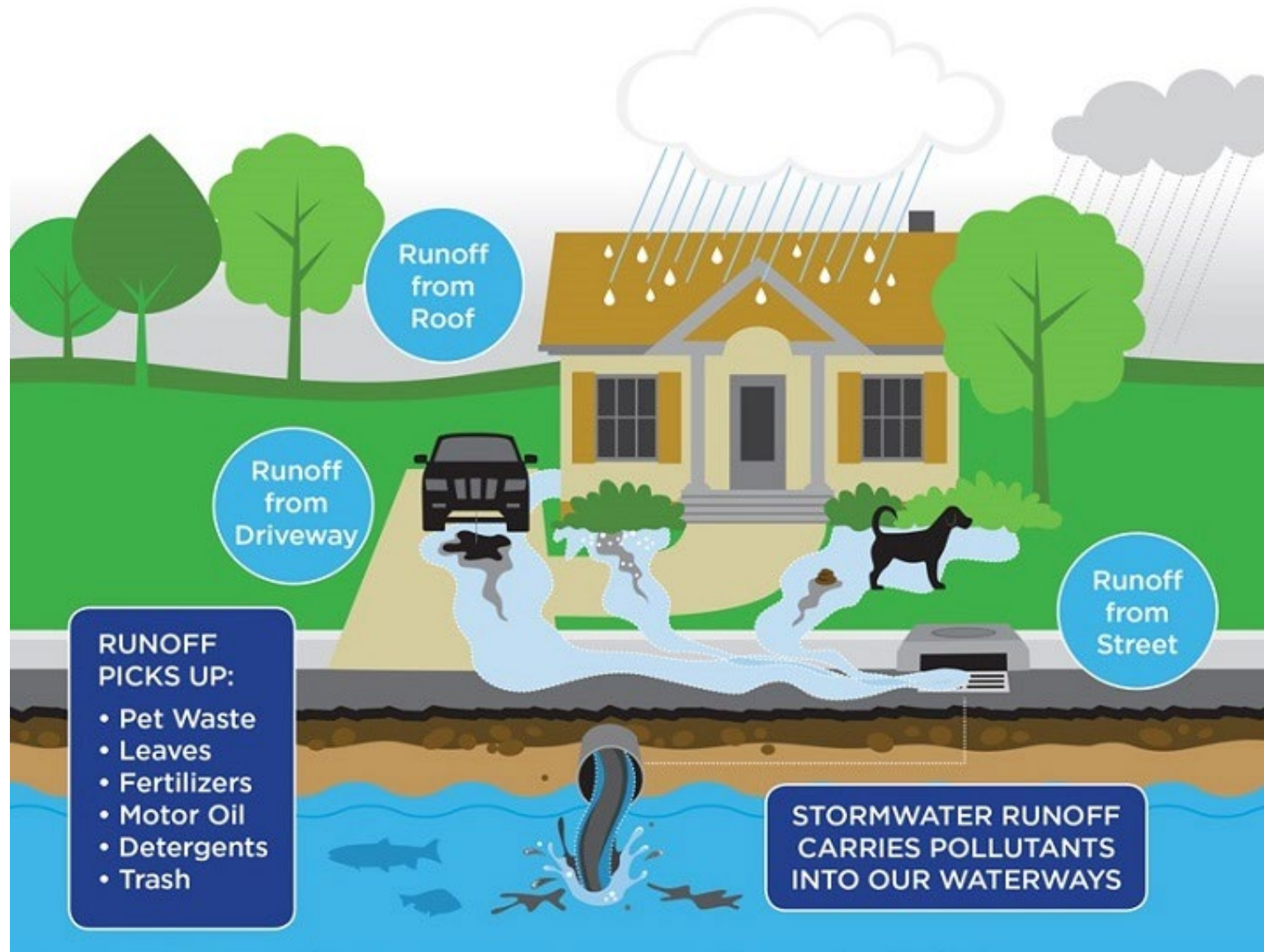
## Background

The Village of River Grove is the operator of a Municipal Separate Storm Sewer System (**MS4**), per the Illinois Environmental Protection Agency's (IEPA) National Pollution Discharge Elimination System (NPDES) Phase II Program.

The ILR40 NPDES Permit for MS4 communities requires that the Village of River Grove develop, implement, and enforce a *Stormwater Management Program Plan* (**SMPP**) designed to:

- Reduce the discharge of pollutants into neighboring waterways to the maximum extent practicable,
- Protect water quality, and
- Satisfy the water quality requirements as intended by the Clean Water Act (as amended in 1987).





This Image from Urbana, IL depicts Potential Pollutants for Stormwater Runoff

## *Six Minimum Control Measures*

The SMPP addresses all aspects of the Village of River Grove's NPDES Phase II Program. There are **Six Minimum Control Measures** that **must** be implemented within the SMPP:

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

# 1. Public Education and Outreach

- The Village provides and distributes various stormwater related educational information within its **newsletter**. The newsletter may be accessed online via the Village website: [www.rivergroveil.gov](http://www.rivergroveil.gov)
- The Village provides EPA informational **handouts** at the Village Hall.
- The Village also maintains the following **links** to EPA MS4 webpages:
  - <https://www.epa.gov/npdes/npdes-stormwater-program>
  - <https://www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater>

# 1. Public Education and Outreach (continued)

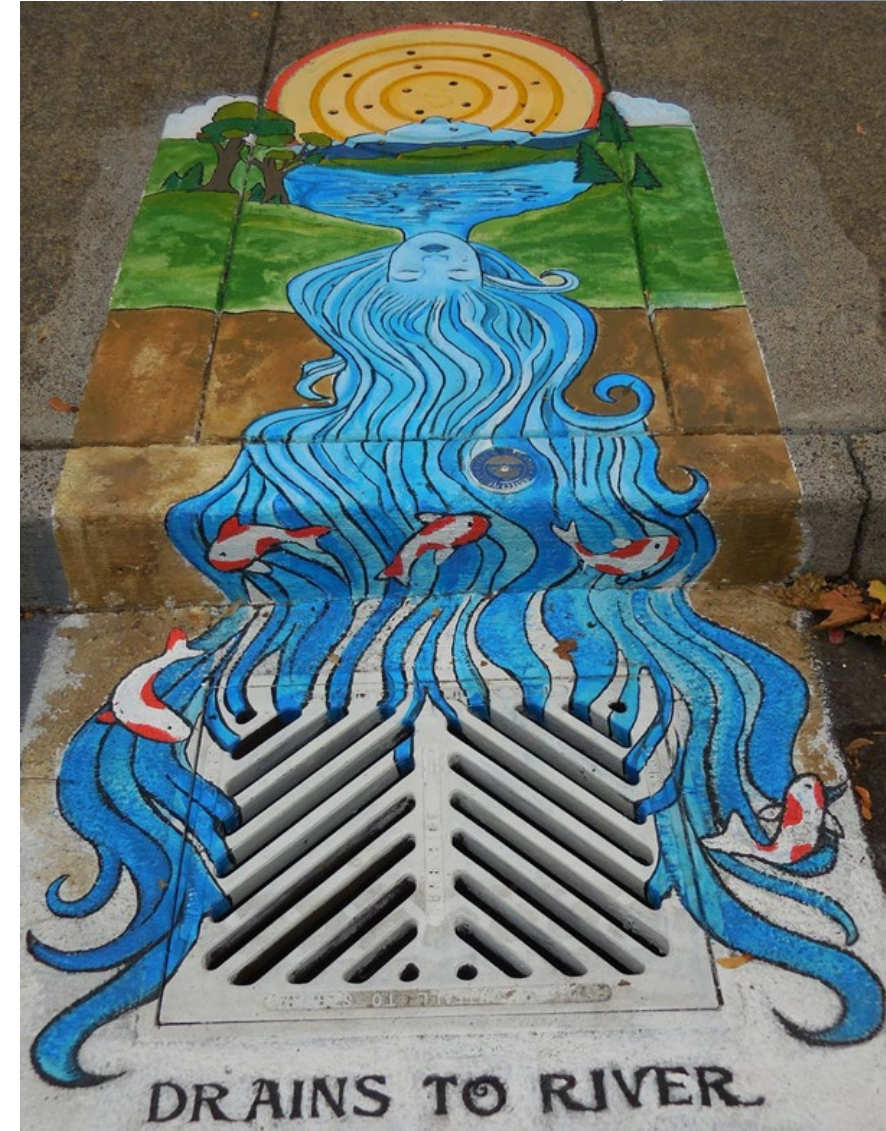
The public education materials strive to cover the following key aspects related to the Public's involvement with stormwater:

1. The **reduction of pollutants** in storm water discharge.
2. The **hazards** associated with illegal discharges and improper waste disposal.
3. The **benefits** of green infrastructure strategies including rain gardens, rain barrels, bioswales, permeable pavements, green roofs, native plants, and other processes that promote infiltration, evaporation, and reuse of stormwater.
4. The **effects of climate change** as relates to storm water discharge.





# Public Education



## 2. Public Participation and Involvement

- The Village of River Grove provides a **public meeting** annually to share information with the public regarding the MS4 Program, as required by the NPDES permit. The public meeting is typically held in conjunction with a Village Board Meeting.
- The Village of River Grove is an active member community of the ***Lower Des Plaines River Watershed Planning Council***, which is a collaborative group of approximately 77 various municipalities and organizations. There are quarterly meetings for stakeholders to attend and be involved. The Village supports River Grove resident stakeholder involvement in this organization. The link to the website may be found at <https://www.nwmc-cog.org/programs/watershed-planning-councils/lower-des-plaines-river-wpc>



## 2. Public Participation and Involvement (continued)

- The Village continues to look for volunteer opportunities and inform the residents as opportunities arise. The Village is also evaluating a storm drain stenciling program and associated volunteer pool.
- The Village has begun review and identification of any Environmental Justice Areas within its boundaries. The intent is to provide all groups within the community the same degree of protection from environmental and health hazards; and to ensure prioritization of effort with regard to the fair distribution of environmental burdens and benefits. Further information on environmental justice may be found at [www.epa.gov/environmentaljustice](http://www.epa.gov/environmentaljustice).





## Volunteer Opportunities







## Volunteer Opportunities





### 3. Illicit Discharge Detection and Elimination

- The Metropolitan Water Reclamation District of Greater Chicago (MWRD) assumed authority over storm water management in Cook County pursuant to the passage of Public Act 93-1049 by the Illinois State Legislature on November 17, 2004. The Act required the preparation and adoption of a **county-wide** storm water management plan and the development of a storm water management regulatory **ordinance**. The Village adheres to the requirements of the Cook County Watershed Management Ordinance (WMO) as administered by the MWRD. The WMO was adopted May 1, 2014 and amended July 10, 2014 by the MWRD Board of Commissioners. Certain requirements pertain to illegal connections and monitoring of such illicit discharges.



### 3. Illicit Discharge Detection and Elimination (continued)

- The Village maintains its own Illicit Discharge and Illegal Dumping Ordinance, with penalties, within Title 9, Chapter 24 of the Village Code.
- The Village has developed an Illicit Discharge Detection and Elimination (IDDE) program to detect and reduce illicit connections, discharges, and illegal dumping. The program includes the following:
  - a. Annual dry weather visual inspection of all **outfalls**, and documentation on associated forms.
  - b. Annual inspection of retention and **detention basins**.

### 3. Illicit Discharge Detection and Elimination (continued)

- c. Review of annual **water quality testing** reports at critical locations along Salt Creek, as performed by the MWRD.
- d. Encouragement of **resident reporting** of observed discharges.
- e. Discouragement of illicit connections, discharges, and illegal dumping by publishing associated penalties on the **Village website** and within the newsletter.
- f. Development of a complete Village wide **outfall inventory**.



### 3. Illicit Discharge Detection and Elimination (continued)

- g. Annual updates to the Village wide storm sewer system **map**.
- h. Village membership within the West Cook County Solid Waste Agency (**WCCSWA**). The WCCSWA offers/sponsors numerous programs throughout the year to allow for recycling and disposal of electronics and household hazardous waste. This offers an alternative to improper disposal or illegal dumping, at no cost to the resident.
- i. Identification of Significant Industrial Users (SIUs). The Village recognizes these “critical users” and gives high priority to the inspection of the SIU facilities.



This Image from  
APG News depicts  
Illicit Discharge

## 4. Construction Site Runoff Control

- Cook County recently approved the **Watershed Management Ordinance (WMO)** which is administered by the MWRD. The Cook County WMO contains Best Management Practices (BMPs) to regulate runoff from construction sites. The regulation pertains to soil erosion and sediment control, consideration of discharge water quality, and reduction of pollutants.
- The Village follows these BMPs as they apply to the **Village's** construction operations and enforces the requirements for **private developments** within the Village.





## 4. Construction Site Runoff Control (continued)

- The Village adheres to the ILR10 NPDES Permit for Storm Water Discharges from Construction Sites for any construction project with a land disturbance of over 1 acre. The requirements for sites at or above the 1-acre threshold are as follows:
  - a. Submittal of a Notice of Intent (**NOI**) Permit to the IEPA for such activities.
  - b. Submittal of a Storm Water Pollution Prevention Plan (**SWPPP**) that includes provisions as described in the most recent edition of the Illinois Urban Manual.
  - c. Sites requiring a SWPPP must have a signed **certification** on site as well as a copy of the **permit**.
  - d. Village site **plan review**, including review of BMPs

## 4. Construction Site Runoff Control (continued)

- The Village requires soil erosion and sediment control measures to reduce pollutants in storm water runoff from construction activities, through a **plan review process** that considers water quality, site inspection and enforcement of control measures, and penalties to ensure compliance.
- The Village records **inquiries and complaints** from residents with regard to Erosion Control and Sediment Runoff. A specific form is used and filed for recordkeeping purposes.



This Image from HBnext depicts Construction Stormwater Runoff Protection



## 5. Post Construction Site Runoff Control

- The Village adheres to the Cook County Watershed Management Ordinance (WMO) as it pertains to **post-construction** activities. The Cook County WMO requires the reduction of the discharge of **pollutants**, reduction of **volume**, and reduction in **velocity** of storm water flow. Key detailed requirements within the WMO permitting process include the following items:
  - a. Site Runoff Plan
  - b. Stormwater Calculations
  - c. Base Flood Elevation Determination
  - d. Volume Control Plan
  - e. Detention Facility Plan

## 5. Post Construction Site Runoff Control (continued)

- The Village also abides by the MWRD's WMO Article 4 requirements for Permanent **Erosion Control** measures, as well as Article 9 Maintenance and Monitoring Plan where appropriate.
- The Village has adopted its own **Flood Protection Code**, Title 7, Chapter 1, Section 19, which includes final stabilization and restoration measures for floodplains, disturbed areas in flood fringe, and designated floodways.
- The Village ensures that all regulated construction sites **maintain post-construction BMPs** that meet or exceed the requirements of the ILR10 NPDES Permit.

## 5. Post Construction Site Runoff Control (continued)

- The Village will continue to review the current BMPs for Construction Site Runoff Control with respect to potential **climate change** impacts and modify as appropriate.
- The Village will continue to review the current BMPs for Construction Site Runoff Control with respect to recently developed **Green Construction** methods and implement as appropriate.



## 6. Pollution Prevention / Good Housekeeping

- The Village maintains and adheres to an Operations and Maintenance Program to mitigate the discharge of pollutants from **municipal operations** and activities. The program includes the following key activities:
  - a. Street sweeping
  - b. Catch basin cleaning
  - c. Sewer televising and cleaning
  - d. Leaf removal
  - e. Snow and ice control

## 6. Pollution Prevention / Good Housekeeping (continued)

- f. Reduction of pesticide and herbicide use
- g. Vehicle Maintenance
- h. Proper storage of oil, gasoline, salt, batteries, and other abrasive materials at maintenance yard
- i. A site specific SWPPP for the Public Works yard has been created to further detail the proper storage and handling of materials within the yard.

## 6. Pollution Prevention / Good Housekeeping (continued)

- The Village provides employees with an **Employee Training** Program in an effort to implement BMPs into daily activities that can reduce and eliminate the discharge of pollutants into the storm sewer system. Examples of typical training activities include:
  - a. Vactor Cleaning operations training
  - b. Stormwater training seminar
  - c. Plumbing procedures
  - d. Green infrastructure and sustainability







This Image from The Rapidian News depicts Stormwater Pollution



This Image from Ashland, OH depicts Stormwater Pollution

# Thank You!

## Questions / Comments

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