



## Why SWM is Required

“Stormwater management” (SWM) is our community’s effort to manage the quantity of runoff from rain storms and snowmelt. We design and engineer solutions in such a way as to provide the best possible flood protection to all residents of our community while improving the quality of stormwater runoff.

The Village’s SWM program makes use of detention and retention ponds, storm sewers, roadside ditches, and swales to alleviate local flooding problems. To improve water quality, during construction, the Village requires erosion and sediment controls whenever land is disturbed. For post construction constructed wetlands, vegetated areas, wet bottom basins, and manufactured structures are sometimes installed. A lot of planning, designing, and construction have gone into these systems to make them function properly, so it is also important that we regularly clean and maintain our stormwater conveyance systems. This assures that they will function properly when needed and will help protect our waterways by improving the quality of the runoff.

Every person or organization proposing to disturb stabilized landscaped areas or improved sites must comply with the Federal, State, and Local rules and regulations. They can be found in the

- US Environmental Protection Agency’s National Pollution Discharge Elimination System, Phase II (NPDES-2) permit,
- DuPage County Countywide Stormwater and Flood Plain Ordinance (DCSFPO), and
- Addison Storm Water and Floodplain Management Ordinance, O-90-40, (ASFMO).

## Detention vs. Fee

Two ways are available to land developers to satisfy the stormwater detention requirements of the DCSFPO and ASFMO.

- One way is to restrict stormwater and provide onsite detention for the additional runoff generated by the new impervious surfaces. For example, greater than one acre non-residential sites, developers must provide detention.
- The other way is to pay a fee instead of providing onsite detention. For example, less than one acre non-residential sites, onsite detention is typically not practical. Small site developers usually determine that it makes more sense to pay the fee.

## Erosion and Sediment

Being a part of the overall SWM plan, every earth disturbance within the Village that will allow soil particles to erode and wash offsite, requires erosion and sediment controls. These controls are necessary to protect offsite areas, such as ditches, curb gutters, storm sewers and inlets, ponds, and ultimately our waterways from silt and sediment accumulation. These controls are a requirement of the stormwater pollution prevention plan for NPDES-2, DCSFPO, and ASFMO. Some examples of these controls of are: silt fence, inlet protection, gravel construction entrances, settling basins, and temporary seeding. The appropriate controls must be installed prior to any earth disturbing activity where soil particles may erode offsite, and they must be maintained regularly until the site is permanently stabilized and protected from erosion.

## Flooding and Water Quality

The goal of SWM is to provide a higher quality of life to the residents of Addison by reducing the risk of flooding and by improving the water quality of our nation’s ponds, wetlands, streams, creeks, rivers, and lakes. The Village of Addison strives to meet these goals, and has constructed numerous stormwater facilities and implemented many SWM measures. By implementing SWM we are doing our part in preserving our water resources today and for the future. Pickup our brochure, “Protecting Our Water Quality” and “Best Management Practices” for additional information.

*If you are in the process of planning new construction or major site improvements within the Village, you can get more information about SWM requirements by contacting the:*

**Engineering Division**  
**(630) 693-7530**



# Q & A

## Why do I need stormwater management?

Whenever previously pervious (undeveloped) property is made impervious through development, additional stormwater runoff volume is generated. Since this additional runoff will likely impact adjacent and downstream neighbors, it must be detained, restricted, filtered while under construction, and directed into Village approved storm sewer systems.

## What are impervious surfaces?

These are surfaces that are “hard” and which do not allow stormwater to infiltrate or pass through. These surfaces alter the “natural” flow and infiltration of stormwater. Examples of impervious surfaces include rooftops, drive-ways, parking lots, patios, etc.

## How is the detention requirement determined?

The detention requirement largely depends on the proposed impervious area and the size of the lot or site. Determining the necessary detention requires detailed calculations beyond the scope of this brochure.

## What is the typical fee instead of providing detention?

The fee is based on the calculated detention requirement. The typical range for the fee is \$8,000 to \$15,000 for permitting a new single family residence. It is called a *stormwater exemption fee* and is separate from building permit fees; however, it is collected when the building permit is issued.

## Where does the fee money go?

The fees collected go into planning, designing, constructing, maintaining, and sometimes purchasing properties for stormwater projects. When compared to the cost of these projects, the fees collected only make up a small fraction of the necessary funding. Several completed stormwater projects within the Village include the Plamondon-Mulloy Pond and Louis Reservoir, Westwood Creek Dam and Pump Station, the expansion of the ponds at Links & Tees and Centennial Park, and the wetland enhancements at Lake Manor.

## How does what I do benefit the community?

By restricting and detaining stormwater runoff from your property to predevelopment levels, you are reducing the peak volume of stormwater released into the waterways. This will help reduce downstream flooding, and you will also be filtering your construction runoff before discharging it. These measures will also reduce the amount of sediment and pollutants in the receiving waterways. It is important to remember that just about everybody lives downstream of someone else.

## Guide to STORMWATER MANAGEMENT

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