

## **Lisle Township Road District, Illinois**

### **Stormwater Management Program Plan (SMPP)**

#### **Introduction**

Lisle Township has a General Permit from the Illinois Environmental Protection Agency (IEPA) for its Municipal Separate Storm Sewer System (MS4) and as such the Township has developed this stormwater management program to prevent and reduce pollution to its storm sewer system to the maximum extent practicable. This document describes the pollution prevention practices that comprise the Township's stormwater management program.

#### **Public Education and Outreach**

- Pamphlets- Available at the Lisle Township Road District office, provide steps that the public can take to reduce pollutants in stormwater runoff; the hazards associated with illegal discharges and improper disposal of waste; and green infrastructure.
- DuPage County Stormwater Management - DuPage County Stormwater Management provides, through its Stormwater Outreach Coordinator, various training workshops, homeowners workshops, brochures, training manuals, teacher/student education, videos, etc.

#### **Public Participation and Involvement**

DuPage County Stormwater Management coordinates and participates in public meetings and committees, including the Municipal/County Intergovernmental Advisory Committee Stormwater Management Committee (SMC), Municipal Engineers Technical Advisory Committee (TAC), and volunteer support.

#### **Illicit Discharge Detection and Elimination**

- Storm Sewer System Map- The Township has a digitized map of the entire storm sewer system, which is used to trace discharges. Township MS4 outfalls are also mapped.
- Resident Reporting- Residents can report instances of pollution or suspected pollution by contacting the Township (630) 964-0057 or by email.
- DuPage County - DuPage County has initiated their Illicit Discharge Detection and Elimination (IDDE) program regarding the screening for and tracing of illicit discharges into Waters of the State from MS4 outfalls. County staff hosts an illicit discharge hotline, performs field inspections of known outfall locations, and, where applicable, traces a suspected illicit discharge to the source.

### **Construction Site Runoff Control**

DuPage County Stormwater Management adopted the Countywide Stormwater & Flood Plain Ordinance (CSFPO) in 1991, which establishes the minimum stormwater management requirements for development in DuPage County. The CSFPO, which is enforced by DuPage County Stormwater Management as well as by certified communities in the county, establishes standards for construction site runoff control.

### **Post Construction Runoff Control**

DuPage County implementation and enforcement of the County's Stormwater Management (DCSFPO) and Flood Plain Ordinance; performs related work as required. Also, establishes standards for post-construction runoff control.

### **Stormwater Pollution Prevention for Township Operations**

- Employee Training- Township staff is trained on such topics such as: material storage, hazardous wastes, illicit discharges, equipment cleaning, vehicle maintenance, street maintenance, and lawn and landscape care.
- Street Sweeping-The Township sweeps curbed streets approximately 20 times per year. The Township removes and disposes of all collected debris with proper documentation and testing.
- Catch Basin Cleaning- The Township cleans catch basins periodically. Supplemental cleaning is conducted as needed based on visual inspection of the catch basins. The Township removes and disposes of all collected debris by a waste hauler.
- Inspection and Maintenance- Stormwater detention facilities and catch basins are visually inspected on a regular basis. The storm sewer system is inspected visually. Maintenance is performed on the storm sewer system, as necessary.
- Material Storage – Flammable materials (other than fuel) at township facilities are contained indoors. Fuel is contained in underground storage tanks. Road salt is stored under permanent cover.
- Fleet Maintenance and Cleaning – Maintenance and cleaning are performed inside the Township facility where floor drains are connected to an oil/grease separator and the septic system.
- Waste Disposal – The Township contracts with Republic Services to provide garbage disposal.
- Brush Pick Up – First Monday of each month May through October.
- Leaf Pick Up – Curbside pick-up weekly October through November.

## **Pollution Prevention/Good House Keeping**

This section describes how the compliance with permit requirements is achieved by incorporating pollution prevention and good housekeeping stormwater quality management into day-to-day operations. On-going education and training is provided to ensure that all its employees have the knowledge and skills necessary to perform their functions effectively and efficiently.

The Lisle Township Road District is responsible for the care and upkeep of the Township municipal roads, and Township owned maintenance yards. Many maintenance activities are most regularly performed directly by Township staff.

1. **Street Sweeping:** Street sweeping operations are performed to reduce potential illicit discharges and to provide a clean environment. Township streets are currently swept on average of 20 times a year.
2. **Catch Basins and Storm Sewer:** The Township currently inspects, cleans, and maintains the MS4 components on a routine annual basis. The debris that is collected and hauled away for proper disposal.
3. **Litter and Debris:** Right-of-ways within the MS4 limits are cleaned by the Road District personnel on an as-needed basis.
4. **Snow Removal and Ice Control:** The Township's goal is to use the minimal amount of salt, de-icing chemicals and additives necessary for effective control. Prior to November 1, preparation work to obtain seasonal readiness is completed. These tasks include: inspecting, re-conditioning and calibration of spreaders and spinners, installing these items onto snow removal vehicles, performing test operations, and conducting effective driver training. Performing these preparatory tasks helps ensure that only the necessary level of salt is applied. The materials used for combating roadway Ice include the following:
  - Salt - Rock salt
  - Pre-wetted salt - salt mixed with beet juice
  - Geoblend – Is an environmentally friendly, anti-icing/decicing product used in tanks on salt spreaders to pre-treat salt and to de-ice streets before storm events. It helps reduce salt use up to 30%, is effective to 30 degrees below zero and has anti corrosive properties. Township personnel has been taking measures to limit the use of salt due to its high cost and environmental impacts. Staff has reduced road salt usage by lowering the application rates for the salt when possible and limiting 'bare pavement' salting to collector and arterial streets only. Under normal circumstances only hills, curves, intersections, arterials, and collector streets and neighborhood connector roadways have been salted.

5. Salt Delivery and Storage: Steps are taken to ensure that the delivery, storage and distribution of salt does not pollute stormwater runoff from the Township facility. The floor of the salt storage building is constructed of concrete and adjacent receiving/unloading area are constructed of asphalt. Delivered salt is loaded into the salt storage dome located at 4719 Indiana Ave., Lisle.

6. Vehicle Fueling: All equipment is fueled at the Township owned fueling area. The vehicle fueling area contains one underground double wall fiberglass storage tank and 1 steel tank. These tanks are monitored by a continuous statistical leak detection system. Leak tests are performed on an annual basis as required by a third party. Each employee has an Underground Storage Tank class C or higher operating certificate. The purpose of the Underground Storage Tank (UST) certificates are to prevent and minimize contamination of the land and waters of the state due to the storage and handling of fuel.

7. Vehicle Washing: The Township washes all vehicles in an enclosed garage at their facility which drains to the septic system after entering the oil/grease separator.

8. Vehicle Maintenance: Vehicle maintenance procedures and practices are designed to minimize or eliminate the discharge of petroleum based pollutants to the stormwater management system, including receiving waters.

- Waste Oil: Used motor oil, transmission fluids, gear lubes, brake fluids and other vehicle fluids (except antifreeze) are collected and stored in a 250-gallon tank. Waste oil is emptied and the contents removed and used in heating the garage.

Other materials are:

- Antifreeze: Used antifreeze is inside a building in a 55-gallon plastic drum. The waste antifreeze is then removed by a licensed waste antifreeze contractor.
- Batteries: Used batteries are recycled by vendors when buying a replacement.
- Tires: Used tires are disposed through the DuPage County Tire Recycling Program.

9. Spoil Stock Pile: The spoil stock pile is located at the Township Facility at 4719 Indiana Ave., Lisle, Illinois. Attempts are made to use excess earth excavation when conditions are warranted. Excess earth excavation is tested prior to removal by Morris Engineering, who provides the necessary documentation (IEPA LPC 663) for proper disposal. Licensed waste haulers are contracted to remove and dispose the contents of the spoil stock pile at a licensed landfill when spoil cannot be disposed of at a regular facility.

**Watersheds, Sub-Watersheds and Receiving Waters**

Lisle Township is located within the DuPage River West Branch and East Branch Watershed with St. Joseph's Creek.