

Bloomington Township Highway Dept.
MS4 Phase II Stormwater Program
Operations and Maintenance Plan

Purpose

The purpose of this document is to standardize activities of the Bloomingdale Township Highway Department located at 6N030 Rosedale Ave, Bloomingdale, IL 60108. Specifically, this document addresses facility activities and procedures that could potentially impact storm water runoff from this site. This is required as part of the DuPage County Storm Water NPDES (MS4) discharge permit as submitted with the permit Notice of Intent (NOI). These procedures are meant to protect the storm water runoff from the Service Street facility.

Facility Descriptions

The Bloomingdale Township Highway Department maintenance facilities are located at 6N030 Rosedale Rd, Bloomingdale, IL. 60108. The facility consists of the main building, vehicle storage, offices, salt dome and outside storage. Outside equipment and material storage areas are paved in concrete or black top services. The property drains to the South and West. The main building drainage goes through a triple separator for discharging out to the main sanitary line. The triple basin is cleaned out every 2 years or as needed by an outside contractor.

Potential Sources of Stormwater Pollution and Best Management Practices

a. Fueling

The unleaded and diesel pumps are located on the Southeast end of the main parking lot. Concrete curbs are in place around the pump island to protect them from vehicle traffic. We have 1 unleaded pump and 2 diesel pumps. For storage we have one 1,000-gallon tank for unleaded and two 2,000-gallon diesel tanks. The area is done in concrete and asphalt.

The fuel island has emergency shutoff controls installed in the area of the pumps. Fuel for small implements is stored in the vehicle maintenance building in an enclosed fire safe cabinet.

The Best Management Practices to minimize the impact to stormwater include

- Fuel is stored only in the designated fueling areas in proper containment.
- The fuel dispenser area is surrounded by barriers to prevent vehicles from damaging the dispensers.
- We have a vendor that performs routine inspections of the storage tanks, including overfill protection, and all appurtenances.
- Signs are prominently posted describing spill response/prevention procedures.
- Spill containment and cleanup materials are stored adjacent to the fueling area.
- If a spill or leak occurs the Department Head is notified immediately, and the proper authorities called if warranted. Materials used to clean up spilled fuel are properly disposed of.

b. Vehicle and Equipment Maintenance

Some of the vehicle fluid changes and maintenance are performed by BTHD staff in the vehicle maintenance area. The entire work area is cleaned periodically as needed. Waste oil is collected in a waste oil container and recycled. The floor drain system empties into the triple basin which is serviced regularly. Materials such as hydraulic oils, mineral spirits, and detergents for cleaning are stored inside. Chemicals are stored in their original containers or in labeled containers.

The Best Management Practices to minimize the impact to stormwater include

- Vehicles and equipment are inspected regularly for leaks.
- Maintain current MSDS sheets on all chemicals used in maintenance operations.
- Spill cleanup materials are kept close at hand when performing maintenance operations.
- All spills are wiped up immediately with rags or absorbent materials and the entire area is swept.
- The triple basin separator is inspected regularly for accumulation of sediment and floating contaminants. Triple basin is cleaned out every other year or as needed by an outside contractor.
- All used oil is collected and recycled.

c. Catch Basin Maintenance

BTHD has a Vactor in order to clean each catch basin on a 4-year cycle. Collected waste is disposed of at our storage yard in in Bloomingdale. The material is hauled away by a special waste hauler.

The Best Management Practices to minimize the impact to stormwater include

- Always use the designated disposal area and pick up litter.

d. Vehicle and Equipment Painting

BTHD does not paint any vehicle or equipment and does not intend to do so in the future, except for touch up using spray cans. For touch up on any vehicle or equipment only spray paint is utilized, and all paint materials and solvents are stored inside.

e. Vehicle and Equipment Washing

Vehicles and equipment are washed inside one of the five bays of the maintenance and vehicle storage building. The bay floor is sloped towards its center and drains directly into the triple basin separator which discharges into the main sanitary system. Cleaning detergents are stored inside these bays.

The Best Management Practices to minimize the impact to stormwater include

- When using soap or other detergents, all vehicle and equipment washing is done at the designated location.
- When rinsing rock salt and/or brine residue, all vehicle and equipment washing is done at the designated location.
- Inspect vehicles prior to washing outside and remove any fuel or other contaminants prior to rinsing, to the greatest extent possible.

f. Materials Loading and Unloading

Materials are stored in designated areas. For any bulk liquid deliveries, a trained BTHD employee with knowledge of the storage system must be present during offloading activities to prevent spills and any unwanted mixing of the products. The employee must also be knowledgeable of this plan and emergency notification should a spill occur.

If a manageable spill, the following spill equipment is available for use to control and clean up the spill:

<u>Equipment</u>	<u>Location</u>
Shovels, brooms, Etc.	Maintenance Building
Absorbent Material	Maintenance Building
Sand	On site
Back-Hoes	On site

g. Ditch Maintenance

Ditch maintenance is carried out by the BTHD employees on Unincorporated BTHD roads only.

The Best Management Practices to minimize the impact to stormwater include

- Use established BMPs to protect against soil erosion.
- Dispose of debris in proper locations.
- Collect aggregate and leaf piles prior to rain events where appropriate.

h. Outdoor Storage of Materials

Gravel and other types of aggregate are stored outside in 5 three-sided containment bins. Culverts are stored in an established area on the property in an organized fashion. Scrap materials are stored and taken for recycling on a regular basis. One dumpster is kept in the yard for garbage collected from the road and BTHD facility. We also have numerous smaller trash/recycle bins on the property for the BTHD building. Dumpsters are checked for leaks and lids closed.

The Best Management Practices to minimize the impact to stormwater include

- Materials stored outdoors that are highly susceptible to erosion or contain potentially harmful materials are placed on impermeable surfaces such as pavement or a tarp.
- Aggregate or soil can be placed on the ground if protected from surface erosion. Otherwise, it should be placed in a building.

i. Facility Maintenance and Drainage Monitoring Procedures

The DuPage County Division of Transportation yard facility is continuously maintained. As part of this maintenance, an inspection and general policing of the facility property is performed. The purpose of this activity is to pick up any loose trash and inspect drainage facilities for anything that could impact storm water runoff.

j. Salt and Brine Storage

Salt and brine are used for road treatment during the winter months. Salt is contained in 1 dedicated salt storage dome; The dome has a stainless rolling door system to contain all salt and protect it from rain events. Brine and other de-icing liquid products are contained in tanks, next to the Salt Dome with concrete curb and pipe bollards protecting the tanks from vehicle traffic and containing minor spills.

The Best Management Practices to minimize the impact to stormwater include

- Any salt spilled during loading and unloading is to be swept back into the salt dome after each operation.
- Salt equipment and vehicles are cleaned routinely during the winter season in the designated wash area.
- Staff are trained on the potential risk of a release of the salt brine.

k. Landscape Materials

Any landscape materials collected from either the road or the facility is disposed of in a designated landscape area in our yard. If necessary, a vendor comes and picks up the waste. We also will dispose of our wood chips at a mulch producing facility when feasible.

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Bloomingtondale Township Office Administrator: Linda Dimeo 1-630-407-6924

Stormwater Drainage System Maps



Tank #1
Tank #2
Tank #3

Tank #4
Tank #5
Tank #6
Tank #7

Bloomingtondale
Township Road District

Tank #8
Tank #9
Tank #10
Tank #11

Tank #12
Tank #13
Tank #14

