



Street Maintenance

Street Resurfacing, Curb & Sidewalk Repair, Asphalt Maintenance & Repair, and Winter Preparedness Programs

Stormwater Protection Practices



Objective:

Prevent negative impacts to stormwater from street maintenance activities

Pollutants of Concern:

- Sediment
- Petroleum products
- Toxics
- pH (concrete)
- Salt/chloride

Responsible Key Business Units:

Charlotte Department of Transportation
Engineering & Property Management

DESCRIPTION

The City of Charlotte engages in extensive street maintenance activities. These field operations can result in the discharge of harmful pollutants into our surface waters if certain measures are not implemented. Some discharges into the storm drain system that occur as a result of street maintenance activities could even violate environmental codes. Following the best practices outlined below will help reduce polluted discharges while conducting street maintenance.

BEST PRACTICES

1. Street Resurfacing, Curb & Sidewalk Repair, Asphalt Maintenance

- Contractors will remove loose/excess material and sediment from the street, sidewalk and storm drain gutter both during and at the completion of projects. Dry removal methods, such as sweeper vehicles, brooms, blowers and shovels, will be used as much as possible.
- During projects, employees and contractors will take precautions to keep loose material, slurry and sediment from entering storm drain inlets.
- Removed asphalt, concrete and soil will be recycled as much as possible.
- Work involving materials that can wash into storm drains during rain will not be performed on rainy days.
- Washing and rinsing of vehicles, equipment and tools will be done in a contained or vegetated area and not at a location where the wastewater will discharge directly into surface waters or stormwater conveyances.
- If pressure washing is used for final cleaning of streets and sidewalks, filters will be placed within or around storm drain inlets into which the wash water drains.



- Materials and wastewater, including rinse water in 5-gallon buckets, will not be dumped into surface waters or stormwater conveyances or onto paved areas.
- Slurry discharge from sawcutting and boring will be prevented from entering stormwater inlets. This can be accomplished with items such as sawcutting machines with vacuum, wet/dry vacuums, sand bags, rock bags, and hay bales. Reasonable measures will be taken to clean up accumulated or settled slurry material before leaving the site.
- Disturbed areas will be stabilized with seed, straw and other materials as soon as possible after a project is completed in order to prevent sedimentation.

2. *Spill Response, Cleanup & Reporting*

- City personnel and contractors shall be responsible for following all local, state and federal laws for response to and investigation, reporting and remediation of hazardous material discharges that occur at City projects.
- Contractors shall have spill cleanup materials readily available for use on work sites.
- For aboveground petroleum discharges, the following document from the NC Department of Environment and Natural Resources shall be followed: “Initial Response and Abatement Actions for Non-UST Petroleum Releases: A Summary of Current Policy and Guidance”



3. *Winter Preparedness*

- Material spreading equipment will be calibrated to ensure that salt, brine and other materials are applied at proper amounts and rates.
- In order to optimize effectiveness and minimize overall application amounts, materials that are spread on streets will be chosen based on weather conditions and pavement temperature. Also, anti-icing will be conducted rather than de-icing, when possible.
- Slag use will be secondary to other products, mainly being used when temperatures are very cold, traction is vital, or salt supplies are low.

4. *Training*

- City of Charlotte Construction Inspectors, Field Crew Members, Equipment Operators and management personnel involved in street maintenance activities will attend stormwater pollution prevention training annually.
- Management personnel will promote training opportunities and allow personnel time to attend training.

