

Storm Water Pollution Prevention Clean Water: Our Only Choice

The City of Bartlett has two drainage systems – the sewers and the storm drains. The storm drain system was designed to prevent flooding by carrying excess rainwater away from streets, homes, and businesses. Because the system contains no filters, it also serves the unintended function of carrying urban pollution straight into our streams and eventually the Mississippi River.

This pamphlet provides examples of how you can reduce or eliminate pollution from entering our streams from “storm water” or “urban runoff”.

Rain, industrial and household water mixed with urban pollutants creates storm water pollution. The pollutants include: oil and other automobile fluids, paint and construction debris, yard and pet wastes, pesticides and litter.

Urban runoff pollution eventually flows to the Mississippi River through the storm drain system that takes water and debris straight from the streets to our streams. Each day tremendous amounts of polluted urban runoff enters our streams untreated, leaving toxic chemicals in our creeks and river and tons of trash along their banks.

Urban runoff contaminates our streams and rivers, harms aquatic life and increases the risk of flooding by clogging our storm drains and catch basins. Overall, storm water pollution costs us millions of dollars per year.

These Best Management Practices (BMPs) will help reduce storm water runoff pollution and ensure cleaner streams and river, and a cleaner City of Bartlett. For more storm water information, call the Storm Water Coordinator, 385-6499.

For more information please visit our website at:
<http://www.cityofbartlett.org> or
<http://tn.gov/environment/water.shtml>

Hazardous Spill Response

City of Bartlett Fire Department
911 or (901) 385-5555

To Report Illegal Dumping

City of Bartlett
(901) 385-5555

To Report a Drainage Problem

Department of Public Works
(901) 385-5570

Storm Water Program Information

Department of Engineering and Utilities
(901) 385-6499

Mosquito Control

Memphis & Shelby County Health and Sanitation Dept.
(901) 222-2300

Material printed by City of Bartlett
Department of Engineering and Utilities



This brochure is one of a series of pamphlets describing storm drain protection measures. Other pamphlets include:

Landscaping, Gardening & Pest Control
Food Service Industry
Automotive Maintenance & Car Care
Detention Basin Maintenance
Home Repair & Remodeling

For more information or assistance, call or write:

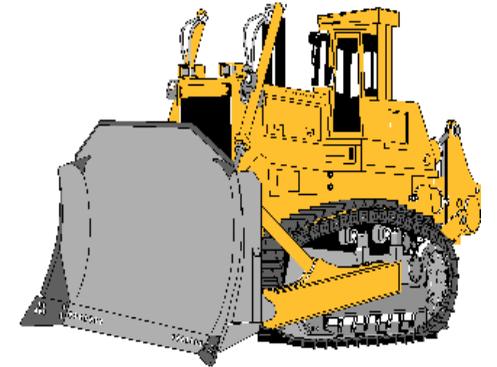
City of Bartlett
Department of Engineering & Utilities
6382 Stage Road, Bartlett TN 38134-3739
901-385-6499
<http://www.cityofbartlett.org>

SWBMP4-05/13

City of Bartlett Storm Water Management Division
6382 Stage Road
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(901) 385-6499

City of Bartlett Department of Planning
6382 Stage Road
Bartlett TN 38134-3739
(901) 385-6417

Storm Water Best Management Practices (BMPs)



Heavy Equipment & Earth Moving Activities

Brochure 4

Site Supervisors
Bulldozer, Backhoe
& Gardening
Machine Operators
Dump Truck Drivers
General Contractors
Home Builders
Developers

Heavy Equipment Operation Problems

Soil excavation and grading operations often contribute to urban runoff pollution. By loosening large amounts of soil and sediment, earth-moving activities can cause sediment to flow into street gutters, storm drains and the Mississippi River and its tributaries.

Sediment is the most common pollutant washed from work sites, creating multiple problems once it leaves the work site. Sediment clogs the gills of fish, blocks light transmission and increases water temperature, all of which harm aquatic life. Sediment also blocks street gutters and storm drains increasing the risk of flooding in areas downstream of the work site.

Sediment also carries with it other work site pollutants such as pesticides, cleaning solvents, cement wash, asphalt, and car fluids like motor oil, grease and fuel. Thus, poorly maintained vehicles and heavy equipment leaking fuel and oil at the construction site also contribute to storm water pollution.

Land Disturbance Permits

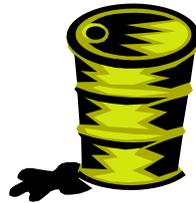
The City of Bartlett requires that a developer contact the Department of Planning prior to beginning any land disturbing activity unless the activity is covered by the Tennessee Right to Farm Act or involves home landscaping or gardening. If the land disturbance is one acre or more (less than one acre if part of a larger common development), the activity must obtain permit coverage from the Tennessee Department of Environment and Conservation. This permit requires developers to develop and implement an erosion control plan. For more information, contact the Department of Planning at (901)385-6417 or the Department of Engineering and Utilities at (901)385-6499.

Solutions

Best Management Practices, such as handling, storing and disposing of materials properly can reduce or eliminate excavation site pollutants from entering storm drains.

1. General Business Practices

- ◇ Schedule excavation and grading work for dry weather.
- ◇ Use as little water as possible for dust control.
- ◇ Obtain the latest edition of the *Tennessee Erosion and Sediment Control Handbook*, available from the Tennessee Department of Environment and Conservation.
- ◇ For site specific guidance or any questions you may have regarding erosion control please call the Department of Engineering and Utilities at (901) 385-6499.
- ◇ For construction site inspection, call the Department of Engineering and Utilities at (901)385-6499 or the Department of Code Enforcement at (901)385-6425.



2. Clean up Spills

- ◇ Never hose down “dirty” pavement or impermeable surfaces where fluids have spilled. Use dry cleanup methods (saw dust, cat litter and/or rags).
- ◇ Sweep up dry materials immediately. Never attempt to bury them or “wash them away” with water.
- ◇ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ◇ Report significant spills to the City of Bartlett Fire Department immediately by calling 911 or (901)385-5555.



3. Vehicle and Equipment Maintenance

- ◇ Maintain all vehicles and heavy equipment. Inspect frequently for leaks.
- ◇ Conduct all vehicle/equipment maintenance and refueling at one location — away from storm drains.
- ◇ Perform major maintenance or repairs off-site.
- ◇ Designate a washing site where water drains to the sanitary sewer system. Contact the Department of Code Enforcement for requirements for connecting to the sanitary sewer.
- ◇ Use and maintain gravel construction entrances where truck traffic is frequent to reduce soil compaction and limit tracking of sediment into streets.
- ◇ Use drip pans or drop cloths to catch drips and spills, if you drain and replace motor oil, radiator coolant or other fluids on site. Collect all used fluids, store in separate containers and recycle whenever possible.
- ◇ Do not use diesel fuel to lubricate equipment or parts.

4. Erosion Prevention

- ◇ After clearing, grading or excavating, exposed soil poses a clear and immediate danger of storm water pollution. Re-vegetation (permanent or temporary) is an excellent form of erosion control for any site.
- ◇ Avoid excavation and grading activities during wet weather.
- ◇ Inspect your erosion control installations after every rain and at least twice a week.
- ◇ Construct diversion dikes to channel non-construction runoff around the site. Stabilize channels with grass or other material. Place small check dams or rip rap in channel to reduce runoff velocity.
- ◇ Cover stockpiles and excavated soil with secured tarps or plastic sheeting.
- ◇ Remove existing vegetation only when absolutely necessary. Large projects should be constructed in phases.
- ◇ Consider planting temporary vegetation for erosion control on slopes or where construction is not immediately planned.
- ◇ Plant permanent vegetation as soon as possible, once excavation and grading activities are complete.
- ◇ Comply with all permit requirements and your approved Storm Water Pollution Prevention Plan.

