

## Chapter 8 Pollution Prevention and Operation and Maintenance for Municipal Operations

### 8.0 Introduction

Pollution Prevention and Operation and Maintenance for Municipal Operations is an important component to a successful stormwater management plan. It is also one of the minimum requirements for the City of Charleston in complying with its MS4 permit.

The City is dedicated to enhancing its municipal operations to improve and protect water quality through a series of actions set forth in this chapter. This requires the City to examine and subsequently alter typical actions and practices to help ensure a reduction in the amount and type of pollution that:

- Collects on streets, parking lots, open spaces, and storage and vehicle maintenance areas and is discharged into local waterways.
- Results from actions such as environmentally damaging land development and flood management practices or poor maintenance of stormwater systems.





# Pollution Prevention/ Good Housekeeping Plan

## 8.1 Pollution Prevention/ Good Housekeeping Plan

The following tasks summarize the City's goals to meet this minimum control measure requirement:

- Develop and implement an operation and maintenance program with the ultimate goal of preventing or reducing polluted runoff from municipal operations into storm sewer systems.
- Include employee training on how to incorporate pollution prevention/good housekeeping techniques into municipal operations such as park and open space maintenance, new construction and land disturbance, and stormwater system maintenance.
- Determine the appropriate BMPs and measurable goals.

It is the City's intention that municipal operations will be performed in a way that will minimize the pollution of stormwater discharges. As such, the following criteria will be considered:

Maintenance activities (see Figures 8-1.1 and 8-1.2), maintenance schedules, and long-term inspection procedures for structural and non-structural controls to reduce floatables and other pollutants discharged from the separate storm sewers;

Controls for reducing or eliminating the discharge of pollutants from areas such as roads and parking lots, maintenance and storage yards (including salt/sand storage and snow disposal areas), and dumpster locations. These controls may include:

- Programs that promote recycling (to reduce litter), minimize pesticide use, and ensure the proper disposal of animal waste.
- Procedures for the proper disposal of waste removed from separate storm sewer systems, including dredge spoil, accumulated sediments, floatables such as plastics and other debris.
- Ways to ensure that new flood management projects assess the impacts on water quality and examine existing projects for incorporation of additional water quality protection devices or practices.



*Figure 8-1.1  
Maintenance of City's Storm Drain*



*Figure 8-1.2  
City Field Crew doing Street Maintenance*

Additionally, policies and procedures will be established to further reduce the discharge of pollutants in storm-water runoff from all lands owned or maintained by the City such as: parks, open space, road right-of-way, maintenance yards, water/sewer structures and storm water treatment practices. These policies and procedures will address the following:

- Application of fertilizers, pesticides, and herbicides including the development of nutrient management and integrated pest management plans.
- Sediment and erosion control.
- Landscape maintenance and vegetation disposal.
- Trash management.
- Building exterior cleaning and maintenance.
- Chemical and material storage.
- Street sweeping and inlet/catch basin cleaning.

## Pollution Prevention/ Good Housekeeping Plan



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