

STREET SWEEPING



In Surfside Beach



WHY SWEEP?



From the E.P.A.

- **Clean Water Act**
- The 1972 amendments to the Federal Water Pollution Control Act (known as the Clean Water Act or CWA) provide the statutory basis for the NPDES permit program and the basic structure for regulating the discharge of pollutants from point sources to waters of the United States.
 - ▣ Section 402 of the CWA specifically required EPA to develop and implement the NPDES program.

Surfside Beach is an MS4

- **MS4 – Municipal Separate Storm Sewer System**
 - Operators of large, medium and regulated small municipal separate storm sewer systems or MS4s are required to obtain NPDES permit coverage in order to discharge pollutants into Waters of the State.
 - These designations (large, medium, and small) are based on urbanized areas as determined by the latest census.

From the S.C. Department of Health and Environmental Conservation

- Regulated Small MS4s must develop a program to cover each of the following minimum control measures:
 - Public education and outreach
 - Public participation/ involvement
 - Illicit discharge detection and elimination
 - Construction site runoff control
 - Post-construction site runoff control
 - Pollution prevention/ good housekeeping.

EPA- Menu of BMPs

Pollution Prevention

- Parking Lot and Street Cleaning
Minimum Measure: Pollution Prevention/Good Housekeeping

- Subcategory: Municipal Activities
- Streets, roads, highways and parking lots accumulate significant amounts of pollutants that contribute to stormwater pollutant runoff to surface waters
- Pollutants, including sediment, debris, trash, road salt, and trace metals can be minimized by street sweeping
- Street sweeping can also improve the aesthetics of municipal roadways, control dust and decrease the accumulation of pollutants in catch basins
- An effective municipal street sweeping program can meet regulatory requirements, assess street sweeping effectiveness, and minimize pollutants in roadways

Stormwater picks up **everything** in its path



And carries it all into the ditch or drain!



Federal Highway Administration- *Best Management Practices*

□ **Effectiveness-**

- The effectiveness of street sweeping programs depends on several factors, including:

□ **Type and operation of equipment used:**

- “Vacuum-assisted and regenerative air sweepers are generally more efficient than mechanical sweepers at removing finer sediments, which often bind a higher proportion of heavy metals. ..”Tests conducted on the newer vacuum-assisted dry sweepers have shown they have significantly enhanced capabilities to remove sediment compared to conventional sweepers, with projected reductions of up to 79 percent in total suspended solids loadings from urban streets. In addition, these sweepers are extremely effective at removing respirable (PM-10) particulate matter (particles with an aerodynamic diameter less than or equal to 10 microns) compared to conventional sweepers (Table 19) and are designed to help meet National Ambient Air Quality standards.”

Tymco Regenerative Air...



Over 40 Years of Sweeping Innovation

Tymco is the industry leader in regenerative air machines

They are widely in use in the Grand Strand, and distributed by Amick equipment, with whom we have a relationship. Free operator training is included with any purchase.



The Tymco 435 Mid-size sweeper



All pollutants are self-contained, and disposed of at the sanitary landfill.





THE END