

Street Sweeping Program

The Town of Jupiter Inlet Colony

The permit requires annual review, and revision if needed, of written Standard Operating Procedures (SOPs) and plans (i.e. public education and outreach, training and inspections) and should be noted in the Jupiter Inlet Colony Annual Report Form.

The Colony has street sweeping performed throughout all the neighborhood streets. Services have been contracted to Facilities Pro-Sweep. All of the following specifics apply to the program that is maintained by them for Jupiter Inlet Colony.

The Street Sweeping Program for Jupiter Inlet Colony consists of:

- The frequency of sweeping is monthly. All roadways within the Town of Jupiter Inlet Colony are swept.
- Documentation of volume of street sweeping collection is provided by the contractor for reporting each year.
- An estimate of the total phosphorus and total nitrogen collected by the street sweeping is performed based on the Florida Stormwater Association's determinations of street sweeping removal rates project. The spreadsheet with appropriate calculations can be found on the www.pbco-npdes.org website.
- All street sweeping collection is properly disposed of in accordance with DEP's "Guidance for the Management of Street Sweepings, Catch Basin Sediments, and Stormwater System Sediments."

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Based on the May 31, 2011 Final Report “Quantifying Nutrient Loads Associated with Urban Particulate Matter (PM), and Biogenic/Litter Recovery through Current MS4 Source Control and Maintenance Practices” and Table 8 in the report (pg. 41), the following values may be used to estimate nutrient removal values from street sweeping activities:

Example Calculations:

In fiscal year 2010, Palm Beach County collected 1,915 cubic yards of material with the street sweeping program. Assuming the average density of the street sweeping material is 750 pounds per cubic yard,* then 1,436,250 pounds were collected. Using the table above, the total phosphorus removed would be estimated at $(1,436,250 \text{ pounds})(0.000361) = 518$ pounds. The total nitrogen removed would be estimated at $(1,436,250 \text{ pounds})(0.000563) = 809$ pounds.

In fiscal year 2011, the Town of Jupiter collected 35.8 dry tons (71,600 pounds) of street sweeping material from residential areas. The estimated nutrient removal rates for total phosphorus and total nitrogen would be $(71,600 \text{ pounds})(0.000361) = 26$ pounds, and $(71,600 \text{ pounds})(0.000563) = 40$ pounds, respectively.

**This assumption is based on a study done by the City of Tampa.*