

Fairfax County 2018 MS4 Program Plan and Annual Report

Appendix R19

A Summary of the Monitoring Results and Analyses from the Floatables
Monitoring

VSMP Permit Number VA0088587
9-28-2018

Monitoring protocol summary and List of sites sampled

Floatables monitoring was conducted at five (5) monitoring sites located at MS4 outfalls. Sites were chosen to be representative of the primary land cover classes that occur in the MS4 service area: High, Medium, and Low Density Residential, Commercial, and Institutional. The StormNet IDs and land cover classifications for the floatable monitoring sites are:

1. STMN0212404236 - 83% Low Density Residential (LDR)
2. STMN0293016090 - 93% Commercial
3. STMN0583435398 - 89% Institutional
4. STMN0651048577 - 100% Medium Density Residential (MDR)
5. STMN0791456509 - 87% High Density Residential (HDR)

Monitoring is conducted once per quarter. During monitoring events, staff count the number of floatables visually observed within the bank full area for 100 linear feet below the MS4 outfall. Stream clean-ups at the monitoring sites were scheduled twice per year. In FY19, staff plan to remove all litter from sites immediately after floatable counts are recorded in order to prevent the potential to double-count floatables.

Summary of the monitoring results

Floatables are consistently found in the highest numbers at the medium density residential site, and in the lowest numbers at the low density residential site. Food and beverage containers, such as bottles, plastic bags, and wrappers are typically found in highest numbers across all of the sites. Staff have noted that improper disposal of floatables is occurring along the riparian area of some sites and some portion of the floatables does not originate from the MS4 outfall.







