

Filtration Practices Feasibility Checklist

Stormwater BMP Category

- Stormwater Management Practice

SWM Credits

- SWM Criteria #1:** Runoff Reduction: no credit
- SWM Criteria #2:** Water Quality Protection:
 - 80% TSS load reduction
 - 60% TP load reduction
 - 40% TN load reduction
 - 50% metals load reduction
 - 40% Bacteria load reduction
- SWM Criteria #3:** Aquatic Resource Protection: uncommon, but can be designed for 24-hour ED of the ARP_v
- SWM Criteria #4:** Overbank Flood Protection: rare, but can be designed to attenuate the Q_{P25}
- SWM Criteria #5:** Extreme Flood Protection: rare, but can be designed to attenuate the Q_{P100}

Site Feasibility

Contributing Drainage Area

- ≤ 2 acre Contributing Drainage Area (CDA) to **Perimeter Sand Filters**
- ≤ 10 acre CDA to **Surface Sand Filters**

Surface Area of the Sand Filter

- 3% to 5% of CDA available for the BMP surface area

Site Topography

- ≤ 6% slope (average); area of filtration practice should be as flat as possible

Depth of BMP

- 2' to 3' for **Perimeter Sand Filter**
- 5' for **Surface Sand Filter**

Water Table

- ≥ 2' separation from SHWT

Soils

- No restrictions

Site Applicability

- Rural Use: Suitable for small highly impervious areas on rural (large lot) subdivisions
- Suburban Use: Suitable for use on most suburban commercial developments
- Urban Use: Suitable for urban areas where space is limited
- Construction Costs: Low Medium High
- Maintenance: Low Medium High