

Submerged Gravel Wetlands Feasibility Checklist

Stormwater BMP Category

- Limited Application Stormwater Management Practice

SWM Credits

- SWM Criteria #1:** Runoff Reduction: no credit
- SWM Criteria #2:** Water Quality Protection:
 - 80% TSS load reduction
 - 50% TP load reduction
 - 20% TN load reduction
 - 50% Metals load reduction
 - 70% Bacteria load reduction (estimated from limited data)

Site Feasibility

Contributing Drainage Area

- ≤ 5 acre Contributing Drainage Area (CDA) to **Submerged Gravel Wetlands**
- > 5 acre CDA to **Submerged Gravel Wetlands** (CDA can be larger than 5 acres with provisions)

Surface Area of the Submerged Gravel Wetlands

- 2% to 3% of CDA available for the BMP surface area

Site Topography

- ≤ 6% slope (average); area of practice should be as flat as possible (<2%)

Depth of BMP

- 3' to 5' for **Submerged Gravel Wetlands**

Water Table

- ≥ 2' separation from SHWT at stormwater hotspots
- 0 to 2' separation from SHWT when not treating stormwater hotspot

Soils

- low permeability
- Medium to high permeability requires a liner

Site Applicability

- Rural Use: Not suitable for rural development
- Suburban Use: Not suitable for use on suburban residential developments; may be suitable for use on small areas of commercial/business developments in suburban areas
- Urban Use: Suitable for urban and ultra-urban areas; and stormwater hotspots
- Construction Costs: Low Medium High
- Maintenance: Low Medium High