

**Table 3-1. Management Practices, Mitigation Provided, and Land Use Applicability Matrix**

Management Practice	Mitigation Provided						Applicability							Notes	
	Bacteria/Pathogens	Runoff Volume	Peak Flow Rates	Baseflow <sup>1</sup>	Sediment conc.	Nutrient conc.	New Development	Existing Development	Urban	Suburban	Agricultural	Commercial	Industrial		Roads and Highways
<b>Stormwater Infiltration/Retention</b>															
Infiltration Basin	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	High failure rate due to clogging with sediments. Pre-treatment recommended.
Infiltration Trench	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	High failure rate due to clogging with sediments. Pre-treatment recommended.
Infiltration/Biofilter Swale	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Pre-treatment recommended. Underdrain may reduce effectiveness
Vegetated Filter Strip	Minimal Mitigation	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
<b>Stormwater Detention</b>															
Created Wetland	Good Mitigation	Moderate Mitigation	Good Mitigation	Minimal Mitigation	Moderate Mitigation	Moderate Mitigation	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Extended Detention Pond	Moderate Mitigation	Minimal Mitigation	Good Mitigation	Minimal Mitigation	Moderate Mitigation	Moderate Mitigation	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Detention times of greater than 32 hours may increase bacterial removal efficiency
Vegetated Riparian Buffer Zone	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Minimal Mitigation	Moderate Mitigation	Moderate Mitigation	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Swale	Minimal Mitigation	Moderate Mitigation	Good Mitigation	Minimal Mitigation	Moderate Mitigation	Moderate Mitigation	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Swales may provide some bacteria mitigation in certain conditions
<b>Other Stormwater Treatment</b>															
Chemical Disinfection	Good Mitigation	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Well Suited	Well Suited	Moderately Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Generally requires pre-treatment to reduce sediment concentrations
Alum Treatment	Moderate Mitigation	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Moderately Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Sand Filter/Filter Bed	Moderate Mitigation	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Moderate Mitigation	Moderate Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Oil and Grit Chamber	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Moderate Mitigation	Minimal Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Includes proprietary hydrodynamic devices. Pre-treatment prior to infiltration BMPs.
Catchbasin with Sump & Hood	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Moderate Mitigation	Minimal Mitigation	Well Suited	Well Suited	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Pre-treatment prior to infiltration BMPs
<b>Low Impact Development Practices</b>															
Disconnecting Impervious Areas	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Bioretention	Good Mitigation	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Moderately Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Soil Amendment	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Well Suited	Moderately Suited	Well Suited	Well Suited	Moderately Suited	Moderately Suited	Well Suited	Well Suited	
Pervious Pavement	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Green Roof	Good Mitigation	Good Mitigation	Good Mitigation	Minimal Mitigation	Good Mitigation	Good Mitigation	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Rain Barrel/Cistern	Moderate Mitigation	Good Mitigation	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Rain Garden	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
<b>Bacteria Source Reductions</b>															
Remove Illicit Discharges	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Address Pet and Wildlife Waste	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Street Sweeping and Maintenance Measures	Moderate Mitigation	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Moderate Mitigation	Minimal Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
<b>Septic System Management</b>															
Managing Private Systems	Good Mitigation	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Replacing Failed Systems	Good Mitigation	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Installing Public Sewers	Good Mitigation	Minimal Mitigation	Minimal Mitigation	Minimal Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
<b>Combined Sewer Overflow Management</b>															
Combined Sewer Separation	Good Mitigation	Minimal Mitigation	Minimal Mitigation	Moderate Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
CSO Prevention Practices	Good Mitigation	Minimal Mitigation	Minimal Mitigation	Moderate Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
<b>Agricultural Management Practice</b>															
Managing Manure Application	Good Mitigation	Minimal Mitigation	Minimal Mitigation	Moderate Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Includes veg. field borders and controlling the timing and method of manure application
Grazing Management	Good Mitigation	Minimal Mitigation	Minimal Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Managing Barnyards	Good Mitigation	Moderate Mitigation	Minimal Mitigation	Moderate Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Includes stormwater runoff controls
<b>Managing Recreational Sources</b>															
Designate No Discharge Area	Good Mitigation	Minimal Mitigation	Minimal Mitigation	Moderate Mitigation	Minimal Mitigation	Minimal Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Moderately Suited	Moderately Suited	Well Suited	Well Suited	
Address Discharges from Boats	Good Mitigation	Minimal Mitigation	Minimal Mitigation	Good Mitigation	Good Mitigation	Good Mitigation	Well Suited	Well Suited	Well Suited	Well Suited	Moderately Suited	Moderately Suited	Well Suited	Well Suited	
Improve Marina Flushing	Moderate Mitigation	Minimal Mitigation	Minimal Mitigation	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	
Address Fish Cleaning Waste	Moderate Mitigation	Minimal Mitigation	Minimal Mitigation	Moderate Mitigation	Moderate Mitigation	Moderate Mitigation	Well Suited	Moderately Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	Well Suited	

**Key**

- Minimal Mitigation
- Moderate Mitigation
- Good Mitigation
- Not Applicable
- Moderately Suited
- Well Suited

<sup>1</sup>Mitigation increases baseflow