

GENERAL INFORMATION:

GI Identifier:	Inspection Type (Check one): Construction <input type="checkbox"/> Warranty <input type="checkbox"/> Routine Operation <input type="checkbox"/> Maintenance Verification <input type="checkbox"/> Performance Verification <input type="checkbox"/>
Address:	Location:
GI Construction Date:	GI Warranty Date:

VISUAL INDICATORS:

Inspection date and time: MM/DD/YYYY HH:MM:SS	Weather (24 hours prior to inspection):
Inspected by:	Inspection duration (minutes):

COMPONENT	INDICATOR	CONDITION	FOLLOW-UP
Contributing Drainage Area	Contributing drainage area condition: Area differs by >10% from design or as-built drawing; Excessive trash, debris, sediment or other pollutant load is present or impairing function of the GI; Land cover has changed	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
Inlet	Inlet structural integrity: Damage to inlet or displacement of rip-rap erosion protection is impairing function of the GI	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:

COMPONENT	INDICATOR	CONDITION	FOLLOW-UP
Inlet <i>(Continued)</i>	Inlet obstruction: Sediment/trash/debris/vegetation ≥5cm deep or blocking inflow over one third (33%) of the width	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
	Pretreatment sediment accumulation: Device is ≥50% full of sediment/trash/debris or inflow of water to the GI is impaired	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
	Inlet erosion: Gullies or bare soil areas ≥30cm in length are visible	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
Perimeter	GI dimensions: Differ from design or as-built drawing by >10%	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
	Side slope erosion: Gullies, ruts or bare soil areas ≥30cm in length are visible	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
	Surface ponding area: Maximum surface ponding area differs from design by >25%	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
Filter Bed	Standing water: Standing water ponded on filter bed surface >24 hours after the end of a storm event	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:

COMPONENT	INDICATOR	CONDITION	FOLLOW-UP
Filter Bed <i>(Continued)</i>	Trash: Trash is visible and impairing aesthetics or function of the GI	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
	Filter bed erosion: Gullies, ruts or bare soil areas ≥ 30 cm in length are visible	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
	Mulch depth: Average depth is less than 5cm or greater than 15cm or bare soil areas are visible	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
	Filter bed sediment accumulation: Mean or local accumulation of sediment is ≥ 5 cm in depth	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
	Surface ponding depth: Maximum differs from design or as-built drawing by $> 10\%$	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
	Filter bed surface sinking: Local surface depressions are ≥ 10 cm in depth or animal burrows are visible	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:

COMPONENT	INDICATOR	CONDITION	FOLLOW-UP
Filter Bed <i>(Continued)</i>	Check dams <i>(if applicable)</i> : Structures are missing or buried in sediment	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
Planting Area	Vegetation cover: Less than 80% of planting area is covered by living vegetation	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
	Vegetation condition: Vegetation is over-grown or over-crowded and is impairing aesthetics or obstructing sight lines needed for safety	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
	Vegetation composition: More than 50% of the vegetation is undesirable (e.g. weeds, invasive) or not the species specified in the planting details	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
Outlet	Overflow outlet obstruction: Structural damage, sediment/trash/debris is obstructing outflow, structure is full of water or grate is missing	Comment/Measurements:	Action:
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>	Timeframe:
Simplified Notation:			
Inspection Type: C = Construction; W = Warranty; RO = Routine Operation; MV = Maintenance Verification; PV = Performance Verification			
Comments: N/A = Not Applicable; N/I = Not Inspected			
Actions: 0 = No Action Required; 1 = Routine Maintenance Required; 2 = Structural Repair Required; 3 = Further Investigation Required			

Photographs:

Notes and Sketches:

SOIL CHARACTERIZATION TESTING:

GI Identifier:	Inspection Type (Check one): Construction <input type="checkbox"/> Warranty <input type="checkbox"/> Routine Operation <input type="checkbox"/> Maintenance Verification <input type="checkbox"/> Performance Verification <input type="checkbox"/>
Sampling date and time: MM/DD/YYYY HH:MM:SS	Weather (24 hours prior sampling):
Sampled by:	Sampling duration (minutes):

Sample ID/ Sample #	Sampling Location	Sample Collected? (Yes/No)	Topsoil Depth (cm)	Maximum Penetrometer Reading* (PSI, kg/cm ² or kPa)	Sample ID/ Sample #	Sample Location	Sample Collected? (Yes/No)	Topsoil Depth (cm)	Maximum Penetrometer Reading* (PSI, kg/cm ² or kPa)

Notes and Sketches:

*Reference ASTM D6951/D6951M Standard Test Method for Use of the Dynamic Cone Penetrometer in Shallow Pavement Applications

NATURAL OR SIMULATED STORM EVENT TESTING:

GI Identifier:	Inspection Type (Check one): Construction <input type="checkbox"/> Warranty <input type="checkbox"/> Routine Operation <input type="checkbox"/> Maintenance Verification <input type="checkbox"/> Performance Verification <input type="checkbox"/>
Testing date and time: MM/DD/YYYY HH:MM:SS	Check dam invert height <i>if applicable</i> (cm, between check dam invert and the soil or sediment surface on the upstream side):
Tested by:	Test duration (hours):

Parameter		Test #1	Test #2	Test #3	Average
A	Volume of water directed to the GI (L or m³, estimated from contributing drainage area and rainfall depth for natural storm events, measured by magnetic flow meter for simulated storm events)				
B	Maximum post-storm filter bed surface water level (mm, at end of rainfall or delivery of water to the GI)				
C	Date/time (mm/dd/yyyy hh:mm:ss) of maximum post-storm filter bed surface water level				
D	Date/time (mm/dd/yyyy hh:mm:ss) when filter bed surface water level reaches 50mm				
E	Minimum post-storm filter bed surface water level (mm, zero or static reading or level just prior to onset of next rain storm):				
F	Date/time (mm/dd/yyyy hh:mm:ss) of minimum post-storm filter bed surface water level (zero or static reading or level just prior to onset of next rain storm):				
G	Date/time (mm/dd/yyyy hh:mm:ss) when filter bed surface is fully drained (zero or static water level reading):				
H	Filter bed surface ponding event duration (h, (G-C)*24)				
I	Filter bed surface infiltration rate estimate (mm/h, (F-D)*24)				
Acceptance Criteria:					
<ul style="list-style-type: none"> • Water flows into GI as intended • Filter bed surface infiltration rate ≥15 mm/h and ≤203 mm/h, or consult manufacturer or vendor for an acceptable range specific to the product • Surface water storage reservoir (i.e., surface ponding behind check dams) fully drains within 24 hours of the end of the storm 					