

GENERAL INFORMATION:

GI Identifier: Inspection Type (Check one):				
	Construction Warranty Routine Operation			
	Maintenance Verification \Box Performance Verification \Box			
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 🗆 🛛 Fail 🗆	Timeframe:
Inlet	Inlet structural integrity: Damage to inlet or sediment pad structure is impairing function of the GI	Comment/Measurements:	Action:
		Pass 🗆 🛛 Fail 🗆	Timeframe:



COMPONENT	INDICATOR	CONDITION	FOLLOW-UP
	Inlet obstruction: Sediment/trash/debris/vegetation ≥5cm deep or	Comment/Measurements:	Action:
	blocking inflow over one third (33%) of the width	Pass 🗆 🛛 Fail 🗆	Timeframe:
Inlet (Continued)	Pretreatment sediment accumulation: Device is ≥50% full of sediment/trash/debris or inflow of water to the GI is impaired	Comment/Measurements:	Action:
	of water to the Gris impared	Pass 🗆 Fail 🗆	Timeframe:
	Inlet erosion: Gullies or bare soil areas ≥30cm in length are visible	Comment/Measurements:	Action:
		Pass 🗆 🛛 Fail 🗆	Timeframe:
	GI dimensions:	Comment/Measurements:	Action:
	Differ from design or as-built drawing by >10%	Pass 🗆 🛛 Fail 🗆	Timeframe:
	Side slope erosion: Gullies, ruts or bare soil areas ≥30cm in length are	Comment/Measurements:	Action:
	visible	Pass 🗆 🛛 Fail 🗆	Timeframe:
Perimeter	Surface ponding area: Maximum surface ponding area differs from design	Comment/Measurements:	Action:
	by >25%	Pass 🗆 🛛 Fail 🗆	Timeframe:
	Pavement Surface Condition / Tree Opening (<i>if</i> applicable): Differential settlement, cracking or other grade abnormalities at tree opening or over covered soil	Comment/Measurements:	Action:
	trenches.	Pass 🗆 🛛 Fail 🗆	Timeframe:



COMPONENT	INDICATOR	CONDITION	FOLLOW-UP
	Standing water: Standing water ponded on filter bed surface >24 hours after the end of a storm event	Comment/Measurements:	Action:
	nours after the end of a storm event	Pass 🗆 🛛 Fail 🗆	Timeframe:
	Trash: Trash is visible and impairing aesthetics or function of the GI	Comment/Measurements:	Action:
		Pass 🗆 🛛 Fail 🗆	Timeframe:
	Filter bed erosion: Gullies, ruts or bare soil areas ≥30cm in length are	Comment/Measurements:	Action:
	visible	Pass 🗆 🛛 Fail 🗆	Timeframe:
Filter Bed	Mulch depth: Average depth is less than 5cm or greater than 15cm or bare soil areas are visible	Comment/Measurements:	Action:
		Pass 🗆 🛛 Fail 🗆	Timeframe:
	Filter bed sediment accumulation: Mean or local accumulation of sediment is ≥5cm in	Comment/Measurements:	Action:
	depth	Pass 🗆 🛛 Fail 🗆	Timeframe:
	Surface ponding depth: Maximum differs from design or as-built drawing by >10%	Comment/Measurements:	Action:
	- 1070	Pass 🗆 🛛 Fail 🗆	Timeframe:
	Filter bed surface sinking: Local surface depressions are ≥10cm in depth or animal burrows are visible	Comment/Measurements:	Action:
		Pass 🗆 🛛 Fail 🗆	Timeframe:



COMPONENT	INDICATOR	CONDITION	FOLLOW-UP
		Comment/Measurements:	Action:
Filter Bed (Continued)	Check dams (if applicable): Structures are missing or buried in sediment		
		Pass 🗆 🛛 Fail 🗆	Timeframe:
	Tree condition <i>(if applicable)</i> : Tree is not thriving, displaying signs of damage, stress, pests or disease.	Comment/Measurements:	Action:
		Pass 🗆 🛛 Fail 🗆	Timeframe:
	Vegetation cover: Less than 80% of planting area is covered by living vegetation	Comment/Measurements:	Action:
		Pass 🗆 🛛 Fail 🗆	Timeframe:
Planting Area	 Vegetation condition: Vegetation is over-grown or over-crowded and is impairing aesthetics or obstructing sight lines needed for safety 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 🗆 🛛 Fail 🗆	Timeframe:
		Comment/Measurements:	Action:
		Pass 🗆 🛛 Fail 🗆	Timeframe:
Quillet	Monitoring well condition: Structural damage or sediment clog is visible and impairing its function or cap is missing	Comment/Measurements:	Action:
		Pass 🗆 🛛 Fail 🗆	Timeframe:
Outlet	Underdrain obstruction: Structural damage, sediment clog or vegetation roots are visible and reducing conveyance capacity of the	Comment/Measurements:	Action:
	pipe by ≥ 33%	Pass 🗆 🛛 Fail 🗆	Timeframe:



COMPONENT	INDICATOR	CONDITION	FOLLOW-UP				
Outlet (Continued)	Overflow outlet obstruction: Structural damage, sediment/trash/debris is obstructing outflow, structure is full of water or grate	Comment/Measurements:	Action:				
	is missing	Pass 🗆 🛛 Fail 🗆	Timeframe:				
	Trench drain obstruction (<i>if applicable</i>): Structural damage, sediment clog or vegetation are visible and reducing conveyance capacity of the drain by \ge 33%	Comment/Measurements:	Action:				
		Pass 🗆 🛛 Fail 🗆	Timeframe:				
Simplified Notation:							
Comments: N/A =	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 \Box Warranty \Box Routine Operation \Box
	Maintenance Verification \Box Performance Verification \Box
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)	Filter Media Depth (cm)	Maximum Penetrometer Reading* (PSI, kg/cm ² or kPa)	Sample ID/ Sample #	Sample Location	Sample Collected? (Yes/No)	Filter Media Depth (cm)	Maximum Penetrometer Reading* (PSI, kg/cm ² or kPa)
Notes and S	oketches:								

*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 \Box Warranty \Box Routine Operation \Box		
	Maintenance Verification \Box Performance Verification \Box		
Testing date and time:	Subsurface water storage reservoir depth (mm):		
MM/DD/YYYY HH:MM:SS			
Tested by:	Test duration (hours):		

	Parameter	Test #1	Test #2	Test #3	Average
A	Volume of water directed to the GI (L or m ³ , estimated from contributing drainage area and rainfall depth for natural storm events, measured by magnetic flow meter for simulated storm events)				
В	Maximum post-storm filter bed surface water level (mm, at end of rainfall or delivery of water to the GI)				
С	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				
Е	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):				
Н	Filter bed surface ponding event duration (h, (G-C)*24)				
I	Filter bed surface infiltration rate estimate (mm/h, (F-D)*24)				
J	Maximum post-storm subsurface storage reservoir water level (mm, at end of rainfall or delivery of water to the GI)				



	Parameter	Test #1	Test #2	Test #3	Average	
К	Date/time (mm/dd/yyyy hh:mm:ss) of maximum post-storm subsurface storage reservoir water level					
L	Subsurface storage reservoir starting water level (mm, half full water level):					
М	Date/time (mm/dd/yyyy hh:mm:ss) of subsurface storage reservoir starting water level (half full)					
N	Subsurface storage reservoir ending water level (mm, one quarter full water level)					
0	Date/time (mm/dd/yyyy hh:mm:ss) of subsurface storage reservoir ending water level (one quarter full)					
Ρ	Date/time (mm/dd/yyyy hh:mm:ss) when subsurface storage reservoir is fully drained (zero or static water level reading)					
Q	Subsurface water storage reservoir drainage period duration (h, (P-K)*24)					
R	Subsurface water storage reservoir drainage rate (mm/h, (L-N)/(M-O)*24)					
Acc	ceptance Criteria:					
	 Water flows into GI as intended Filter bed surface infiltration rate ≥25 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) fully drains within 24 hours of the end of the storm Underdrain peak flow rate is within +/- 15% of design specification Active subsurface water storage reservoir volume drains within 48 to 72 hours of the end of the storm for newly constructed GIs, and within 48 to 96 hours for in-service GIs 					