

APPENDIX D

INSPECTION FIELD DATA FORMS

GENERAL INFORMATION:

BMP Identifier:	Inspection type:
Address :	Location:
BMP construction date:	BMP assumption date:

VISUAL INDICATORS:

Inspection date and time:	Weather (24 hours prior to inspection):
Inspected by:	Inspection duration (minutes):

ZONE	INDICATOR & TRIGGER FOR FOLLOW-UP	CONDITION		FOLLOW-UP
CDA	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 BMP; Land cover has changed	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
INLET	Inlet structural integrity: Damage to inlet or flow spreader structure is impairing function of the BMP	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Inlet obstruction: Sediment/trash/debris/vegetation ≥5 cm deep or blocking inflow over one third (33%) of the width	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Pretreatment sediment accumulation: Device is ≥50% full of sediment/trash/debris or inflow of water to the BMP is impaired	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Inlet erosion: Gullies or bare soil areas ≥ 30 cm in length are visible	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:

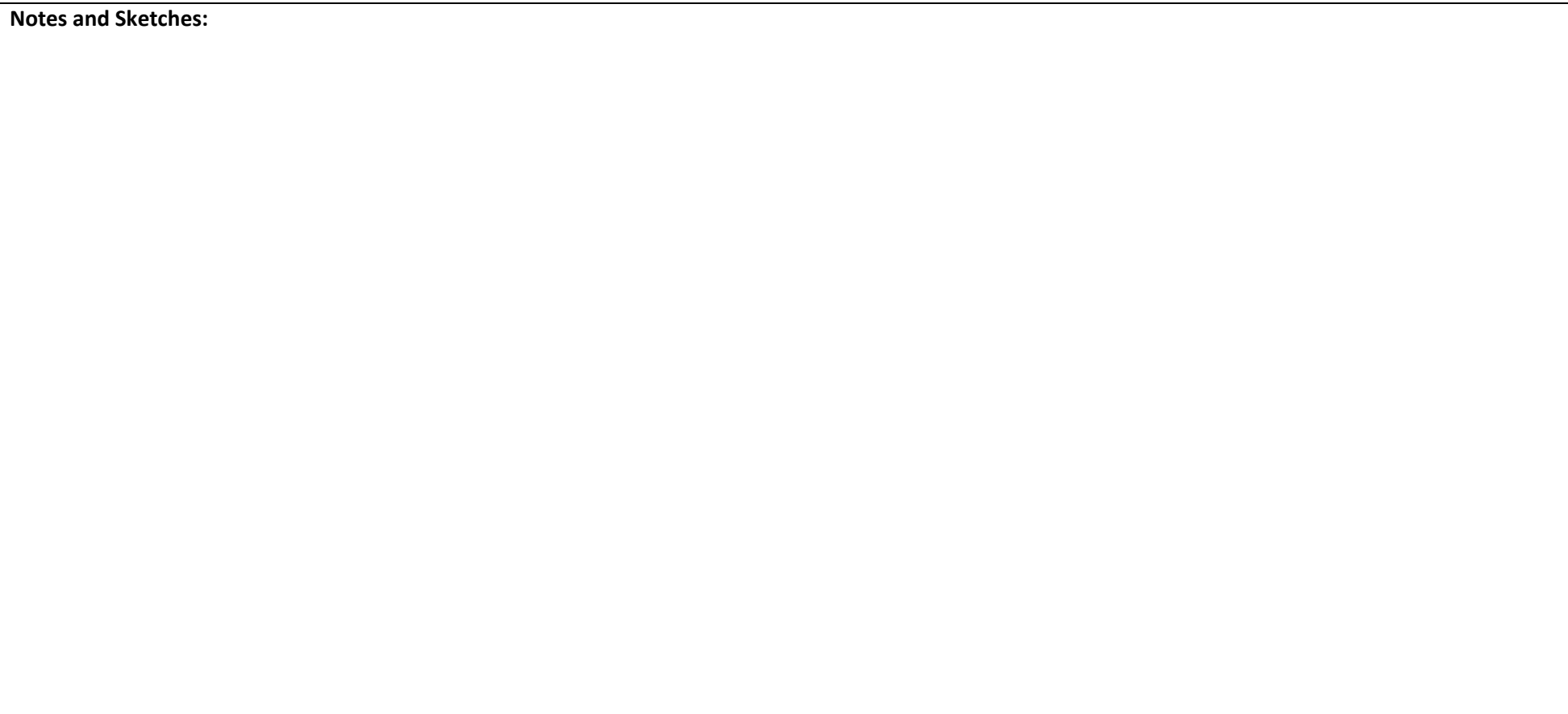
PERIMETER	BMP dimensions: Differ from design or as-built drawing by >10%	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Side slope erosion: Gullies, ruts or bare soil areas ≥30 cm in length are visible	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Surface ponding area: Maximum surface ponding area differs from design by >25%	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
FILTER BED	Standing water: Standing water ponded on filter bed surface >24 hours after the end of a storm event	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Trash: Trash is visible and impairing aesthetics or function of the BMP	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Filter bed erosion: Gullies, ruts or bare soil areas ≥30 cm in length are visible	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Mulch depth: Average depth is less than 5 cm or greater than 15 cm or bare soil areas are visible	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Filter bed sediment accumulation: Mean or local accumulation of sediment is ≥5 cm in depth	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Surface ponding depth: Maximum differs from design or as-built drawing by >10%	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:

FILTER BED	Filter bed surface sinking: Local surface depressions are ≥ 10 cm in depth or animal burrows are visible	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
	Check dams: Structures are missing or buried in sediment	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
PLANTING AREA	Vegetation cover: Less than 80% of planting area is covered by living vegetation	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
	Vegetation condition: Vegetation is over-grown or over-crowded and is impairing aesthetics or obstructing sight lines needed for safety	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
	Vegetation composition: More than 50% of the vegetation is undesirable (e.g. weeds, invasive) or not the species specified in the planting plan	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
OUTLET	Monitoring well condition: Structural damage or sediment clog is visible and impairing its function or cap is missing	Comments/Measurements: Water level (cm): Pass: _____ Fail: _____	Action: Timeframe: _____
	Sub-drain obstruction: Structural damage, sediment clog or vegetation roots are visible and reducing conveyance capacity of the pipe by $\geq 33\%$	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
	Overflow outlet obstruction: Structural damage, sediment/trash/debris is obstructing outflow, structure is full of water or grate is missing	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
Codes Inspection type: C = Construction; A = Assumption; RO = Routine Operation; MV = Maintenance Verification; PV = Performance Verification Comments: NA = not applicable; NI = not inspected. Actions: 0 = no action necessary; 1 = routine maintenance needed; 2 = structural repair needed; 3 = further investigation needed.			

Photographs:



Notes and Sketches:



SOIL CHARACTERIZATION TESTING:

BMP Identifier	Inspection Type:
Sampling date and time:	Weather (24 hours prior to sampling):
Sampled by:	Sampling duration (minutes):

Sampling Location	Sample Collected? (Y/N)	Filter Media Depth (cm)	Maximum Penetrometer Reading (PSI, kg/cm² or kPa)	Sample Location	Sample Collected? (Y/N)	Filter Media Depth (cm)	Maximum Penetrometer Reading (PSI, kg/cm² or kPa)

Notes and Sketches:

NATURAL OR SIMULATED STORM EVENT TESTING:

BMP Identifier:	Inspection Type:
Testing date and time:	Sub-surface water storage reservoir depth (mm):
Tested by:	Test duration (hours):

Term	Parameter	Test 1	Test 2	Test 3	Mean
A	Volume of water directed to the BMP (L or m³, estimated from CDA 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 BMP):				
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 50 mm:				
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):				
J	Maximum post-storm sub-surface storage reservoir water level (mm, at end of rainfall or delivery of water to the BMP):				
K	Date/time (mm/dd/yyyy hh:mm:ss) of maximum post-storm sub-surface storage reservoir water level:				
L	Sub-surface storage reservoir starting water level (mm, half full water level):				
M	Date/time (mm/dd/yyyy hh:mm:ss) of sub-surface storage reservoir starting water level (half full):				

N	Sub-surface storage reservoir ending water level (mm, one quarter full water level):				
O	Date/time (mm/dd/yyyy hh:mm:ss) of sub-surface storage reservoir ending water level (one quarter full):				
P	Date/time (mm/dd/yyyy hh:mm:ss) when sub-surface storage reservoir is fully drained (zero or static water level reading):				
Q	Sub-surface water storage reservoir drainage period duration (h, (P-K)*24):				
R	Sub-surface water storage reservoir drainage rate (mm/h, (L-N)/(M-O)*24):				
Acceptance Criteria:					
Water flows into BMP 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;			Sub-drain peak flow rate is within +/- 15% of design specification; Active sub-surface water storage reservoir volume drains within 48 to 72 hours of the end of the storm for newly constructed BMPs, and within 48 to 96 hours for in-service BMPs.		

Notes and Sketches:

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GENERAL INFORMATION:

BMP Identifier:	Inspection type:
Address :	Location:
BMP construction date:	BMP assumption date:

VISUAL INDICATORS:

Inspection date and time:	Weather (24 hours prior to inspection):
Inspected by:	Inspection duration (minutes):

ZONE	INDICATOR & TRIGGER FOR FOLLOW-UP	CONDITION		FOLLOW-UP
CDA	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 BMP; Land cover has changed	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
INLET	Inlet structural integrity: Damage to inlet or flow spreader structure is impairing function of the BMP	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Inlet obstruction: Sediment/trash/debris/vegetation ≥5 cm deep or blocking inflow over one third (33%) of the width	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Pretreatment sediment accumulation: Device is ≥50% full of sediment/trash/debris or inflow of water to the BMP is impaired	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Inlet erosion: Gullies or bare soil areas ≥ 30 cm in length are visible	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:

PERIMETER	BMP dimensions: Differ from design or as-built drawing by >10%	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Side slope erosion: Gullies, ruts or bare soil areas ≥30 cm in length are visible	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Surface ponding area: Effective surface ponding area differs from design by >25%	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
FILTER BED	Standing water: Standing water ponded on filter bed surface >24 hours after the end of a storm event	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Trash: Trash is visible and impairing aesthetics or function of the BMP	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Filter bed erosion: Gullies, ruts or bare soil areas ≥30 cm in length are visible	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Mulch depth: Average depth is less than 5 cm or greater than 15 cm or bare soil areas are visible	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Filter bed sediment accumulation: Mean or local accumulation of sediment is ≥5 cm in depth	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Surface ponding depth: Maximum differs from design by ≥10 cm	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:

FILTER BED	Filter bed surface sinking: Local surface depressions are ≥ 10 cm in depth or animal burrows are visible	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Check dams: Structures are missing or buried in sediment	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
PLANTING AREA	Vegetation cover: Less than 80% of planting area is covered by living vegetation	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Vegetation condition: Vegetation is over-grown or over-crowded and is impairing aesthetics or obstructing sight lines needed for safety	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Vegetation composition: More than 50% of the vegetation is undesirable (e.g. weeds, invasive) or not the species specified in the planting plan	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
OUTLET	Overflow outlet obstruction: Structural damage, sediment/trash/debris is obstructing outflow, structure is full of water or grate is missing	Comments/Measurements:		Action:
		Water level (cm):		
	Pass:	Fail:	Timeframe:	
Codes Inspection type: C = Construction; A = Assumption; RO = Routine Operation; MV = Maintenance Verification; PV = Performance Verification Comments: NA = not applicable; NI = not inspected. Actions: 0 = no action necessary; 1 = routine maintenance needed; 2 = structural repair needed; 3 = further investigation needed.				

Photographs:



Notes and Sketches:



SOIL CHARACTERIZATION TESTING:

BMP Identifier	Inspection Type:
Sampling date and time:	Weather (24 hours prior to sampling):
Sampled by:	Sampling duration (minutes):

Sampling Location	Sample Collected? (Y/N)	Topsoil Depth (cm)	Maximum Penetrometer Reading (PSI, kg/cm ² or kPa)	Sample Location	Sample Collected? (Y/N)	Topsoil Depth (cm)	Maximum Penetrometer Reading (PSI, kg/cm ² or kPa)

Notes and Sketches:

NATURAL OR SIMULATED STORM EVENT TESTING:

BMP Identifier:	Inspection Type:
Testing date and time:	Check dam invert height (cm, between check dam invert and the soil or sediment surface on the upstream side):
Tested by:	Test duration (hours):

Term	Parameter	Test 1	Test 2	Test 3	Mean
A	Volume of water directed to the BMP (L or m³, estimated from CDA 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 BMP):				
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 50 mm:				
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:	
Water flows into BMP as intended; Filter bed (i.e., swale) 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.

GENERAL INFORMATION:

BMP Identifier:	Inspection type:
Address :	Location:
BMP construction date:	BMP assumption date:

VISUAL INDICATORS:

Inspection date and time:	Weather (24 hours prior to inspection):
Inspected by:	Inspection duration (minutes):

ZONE	INDICATOR & TRIGGER FOR FOLLOW-UP	CONDITION		FOLLOW-UP
CDA	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 BMP; Land cover has changed	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
INLET	Inlet structural integrity: Damage to inlet or flow spreader structure is impairing function of the BMP	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Inlet obstruction: Sediment/trash/debris/vegetation ≥5 cm deep or blocking inflow over one third (33%) of the width	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Inlet erosion: Gullies or bare soil areas ≥ 30 cm in length are visible	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:

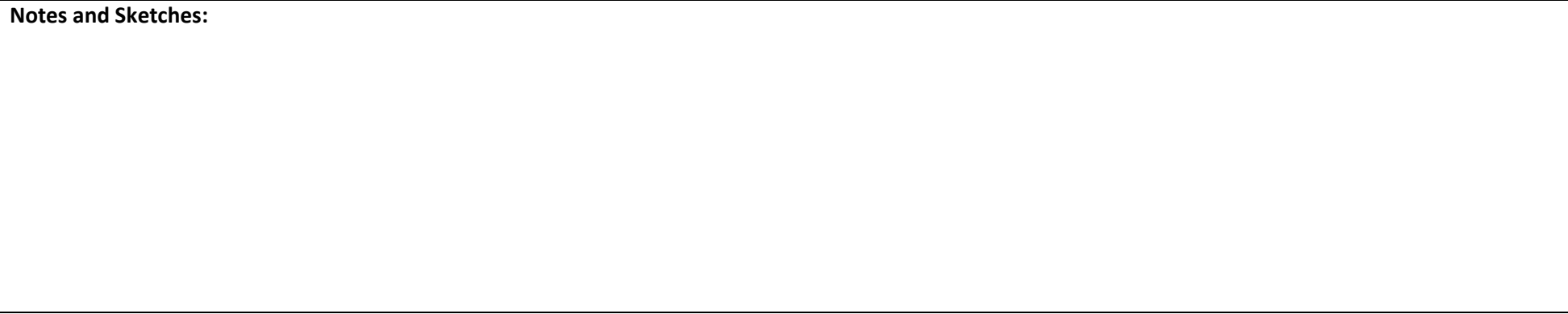
PERIMETER	BMP dimensions: Differ from design or as-built drawing by >10%	Comments/Measurements:	Action:
		Pass:	Fail:
FILTER BED	Standing water: Standing water ponded on filter bed surface >24 hours after the end of a storm event	Comments/Measurements:	Action:
		Pass:	Fail:
	Trash: Trash is visible and impairing aesthetics or function of the BMP	Comments/Measurements:	Action:
		Pass:	Fail:
	Filter bed erosion: Gullies, ruts or bare soil areas ≥ 30 cm in length are visible	Comments/Measurements:	Action:
		Pass:	Fail:
	Mulch depth: Average depth is less than 5 cm or greater than 15 cm or bare soil areas are visible	Comments/Measurements:	Action:
		Pass:	Fail:
	Filter bed sediment accumulation: Mean or local accumulation of sediment is ≥ 5 cm in depth	Comments/Measurements:	Action:
		Pass:	Fail:
	Filter bed surface sinking: Local surface depressions are ≥ 10 cm in depth or animal burrows are visible	Comments/Measurements:	Action:
		Pass:	Fail:
PLANTING AREA	Vegetation cover: Less than 80% of planting area is covered by living vegetation	Comments/Measurements:	Action:
		Pass:	Fail:
	Vegetation condition: Vegetation is over-grown or over-crowded and is impairing aesthetics or obstructing	Comments/Measurements:	Action:

	sight lines needed for safety	Pass:	Fail:	Timeframe:
	Vegetation composition: More than 50% of the vegetation is undesirable (e.g. weeds, invasive) or not the species specified in the planting plan	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
OUTLET	Overflow outlet obstruction: Structural damage, sediment/trash/debris is obstructing outflow, structure is full of water or grate is missing	Comments/Measurements:		Action:
		Water level (cm):		
		Pass:	Fail:	Timeframe:

Codes
Inspection type: C = Construction; A = Assumption; RO = Routine Operation; MV = Maintenance Verification; PV = Performance Verification
Comments: NA = not applicable; NI = not inspected.
Actions: 0 = no action necessary; 1 = routine maintenance needed; 2 = structural repair needed; 3 = further investigation needed.

Photographs:

Notes and Sketches:



SOIL CHARACTERIZATION TESTING:

BMP Identifier	Inspection Type:
Sampling date and time:	Weather (24 hours prior to sampling):
Sampled by:	Sampling duration (minutes):

Sampling Location	Sample Collected? (Y/N)	Topsoil Depth (cm)	Maximum Penetrometer Reading (PSI, kg/cm² or kPa)	Sample Location	Sample Collected? (Y/N)	Topsoil Depth (cm)	Maximum Penetrometer Reading (PSI, kg/cm² or kPa)

Notes and Sketches:

GENERAL INFORMATION:

BMP Identifier:	Inspection type:
Address :	Location:
BMP construction date:	BMP assumption date:

VISUAL INDICATORS:

Inspection date and time:	Weather (24 hours prior to inspection):
Inspected by:	Inspection duration (minutes):

ZONE	INDICATOR & TRIGGER FOR FOLLOW-UP	CONDITION		FOLLOW-UP
CDA	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 BMP; Land cover has changed	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
PAVEMENT SURFACE	BMP dimensions: Differ from design or as-built drawing by >10%	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Standing water: Standing water ponded on pavement surface is present	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Trash: Trash is visible and impairing aesthetics or function of the BMP	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Pavement surface condition: Damage, missing or displaced pavers, ruts or local sinking present, paver joint fill is missing	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:

	or low, weed growth between pavers is extensive and impairing aesthetic value	Pass:	Fail:	Timeframe:
	Pavement surface sediment accumulation: Joints between pavers or grid cells are completely filled with fine sediment, any portion is covered with sediment	Comments/Measurements:		Action:
PLANTING AREA	Vegetation cover: Less than 80% of planting area is covered by living vegetation	Pass:	Fail:	Timeframe:
	Vegetation condition: Grass is not thriving or over-grown and impairing the aesthetic value of the BMP	Comments/Measurements:		Action:
	Vegetation composition: More than 50% of the vegetation is undesirable (e.g. weeds, invasive) or not the species specified in the planting plan	Pass:	Fail:	Timeframe:
		Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
		Comments/Measurements:		Action:
OUTLET	Monitoring well condition: Structural damage or sediment clog is visible and impairing its function or cap is missing	Comments/Measurements:		Action:
		Water level (cm):		
		Pass:	Fail:	Timeframe:
	Sub-drain obstruction: Structural damage, sediment clog or vegetation roots are visible and reducing conveyance capacity of the pipe by $\geq 33\%$	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Overflow outlet obstruction: Structural damage, sediment/trash/debris is obstructing outflow, structure is full of water or grate is missing	Comments/Measurements:		Action:
CONTROL STRUCTURE	Control structure condition: Structure is inaccessible or ladder rungs are missing, damage or evidence of leaking is visible	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:

	Control structure sediment accumulation: Sediment depth \geq 10 cm, or is obstructing flow out of the BMP	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:

Codes
Inspection type: C = Construction; A = Assumption; RO = Routine Operation; MV = Maintenance Verification; PV = Performance Verification
Comments: NA = not applicable; NI = not inspected.
Actions: 0 = no action necessary; 1 = routine maintenance needed; 2 = structural repair needed; 3 = further investigation needed.

Photographs:

Notes and Sketches:

NATURAL OR SIMULATED STORM EVENT TESTING:

BMP Identifier:	Inspection Type:
Testing date and time:	Sub-surface water storage reservoir depth (mm):
Tested by:	Test duration (hours):

Term	Parameter	Test 1	Test 2	Test 3	Mean
A	Volume of water directed to the BMP (L or m³, measured or estimated from CDA and rainfall depth for natural storm events; measured by flow meter for simulated storm events):				
B	Maximum post-storm sub-surface storage reservoir water level (mm, at end of rainfall or delivery of water to the BMP):				
C	Date/time (mm/dd/yyyy hh:mm:ss) of maximum post-storm sub-surface storage reservoir water level:				
D	Sub-surface storage reservoir starting water level (mm, half full water level):				
E	Date/time (mm/dd/yyyy hh:mm:ss) of sub-surface storage reservoir starting water level (half full):				
F	Sub-surface storage reservoir ending water level (mm, one quarter full water level):				
G	Date/time (mm/dd/yyyy hh:mm:ss) of sub-surface storage reservoir ending water level (one quarter full):				
H	Date/time (mm/dd/yyyy hh:mm:ss) when sub-surface storage reservoir is fully drained (zero or static water level reading):				
I	Sub-surface water storage reservoir drainage period duration (h, (H-C)*24):				
J	Sub-surface water storage reservoir drainage rate (mm/h, (D-F)/(G-E)*24):				

Acceptance Criteria:

Water flows into BMP as intended; Sub-drain peak flow rate is within +/- 15% of design specification;	Active sub-surface water storage reservoir volume drains within 48 to 72 hours of the end of the storm for newly constructed BMPs, and within 48 to 96 hours for in-service BMPs.
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GENERAL INFORMATION:

BMP Identifier:	Inspection type:
Address :	Location:
BMP construction date:	BMP assumption date:

VISUAL INDICATORS:

Inspection date and time:	Weather (24 hours prior to inspection):
Inspected by:	Inspection duration (minutes):

ZONE	INDICATOR & TRIGGER FOR FOLLOW-UP	CONDITION		FOLLOW-UP
CDA	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 BMP; Land cover has changed	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
INLET	Inlet structural integrity: Damage to inlet or structure is impairing function of the BMP or catchbasin grate or trash rack is missing or damaged.	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Inlet obstruction: Sediment/trash/debris ≥5 cm deep or blocking inflow over one third (33%) of the inlet width or area	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Pretreatment sediment accumulation: Device is ≥50% full of sediment/trash/debris or inflow of water to the BMP is impaired	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:

PERIMETER	BMP dimensions: Differ from design or as-built drawing by >10%	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
FILTER BED	Filter bed sediment accumulation: Mean or local accumulation of sediment is ≥ 8 cm in depth	Comments/Measurements:		Action:
		Pass:	Fail:	
OUTLET	Monitoring well condition: Structural damage or sediment clog is visible and impairing its function or cap is missing	Comments/Measurements:		Action:
		Water level (cm):		
	Sub-drain obstruction: Structural damage, sediment clog or vegetation roots are visible and reducing conveyance capacity of the pipe by ≥ 33%	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Overflow outlet obstruction: Structural damage, sediment/trash/debris is obstructing outflow, structure is full of water or grate is missing	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
CONTROL STRUCTURE	Control structure condition: Structure is inaccessible or ladder rungs are missing. Damage to the concrete structure or evidence of leaking is visible and may be impairing the function of the BMP	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Control structure sediment accumulation: Depth of sediment ≥ 10 cm, or is obstructing flow of stormwater into or out of the BMP	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:

Codes
Inspection type: C = Construction; A = Assumption; RO = Routine Operation; MV = Maintenance Verification; PV = Performance Verification
Comments: NA = not applicable; NI = not inspected.
Actions: 0 = no action necessary; 1 = routine maintenance needed; 2 = structural repair needed; 3 = further investigation needed.

Photographs:

Notes and Sketches:

NATURAL OR SIMULATED STORM EVENT TESTING:

BMP Identifier:	Inspection Type:
Testing date and time:	Sub-surface water storage reservoir depth (mm):
Tested by:	Test duration (hours):

Term	Parameter	Test 1	Test 2	Test 3	Mean
A	Volume of water directed to the BMP (L or m³, measured or estimated from CDA and rainfall depth for natural storm events; measured by flow meter for simulated storm events):				
B	Maximum post-storm sub-surface storage reservoir water level (mm, at end of rainfall or delivery of water to the BMP):				
C	Date/time (mm/dd/yyyy hh:mm:ss) of maximum post-storm sub-surface storage reservoir water level:				
D	Sub-surface storage reservoir starting water level (mm, half full water level):				
E	Date/time (mm/dd/yyyy hh:mm:ss) of sub-surface storage reservoir starting water level (half full):				
F	Sub-surface storage reservoir ending water level (mm, one quarter full water level):				
G	Date/time (mm/dd/yyyy hh:mm:ss) of sub-surface storage reservoir ending water level (one quarter full):				
H	Date/time (mm/dd/yyyy hh:mm:ss) when sub-surface storage reservoir is fully drained (zero or static water level reading):				
I	Sub-surface water storage reservoir drainage period duration (h, (H-C)*24):				
J	Sub-surface water storage reservoir drainage rate (mm/h, (D-F)/(G-E)*24):				

Acceptance Criteria:	
Water flows into BMP as intended; Sub-drain peak flow rate is within +/- 15% of design specification;	Active sub-surface water storage reservoir volume drains within 48 to 72 hours of the end of the storm for newly constructed BMPs, and within 48 to 96 hours for in-service BMPs.

GENERAL INFORMATION:

BMP Identifier:	Inspection type:
Address :	Location:
BMP construction date:	BMP assumption date:

VISUAL INDICATORS:

Inspection date and time:	Weather (24 hours prior to inspection):
Inspected by:	Inspection duration (minutes):

ZONE	INDICATOR & TRIGGER FOR FOLLOW-UP	CONDITION		FOLLOW-UP
PERIMETER	Access point: Site remains safely and easily accessible	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Unvegetated borders: Free of vegetation and natural debris	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	BMP dimensions: Differ from design or as-built drawing by >10%	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Green roof structural integrity: Signs of damage to green roof structures (including wind breaks if present) are visible or protective membranes are exposed	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
FILTER BED	Standing water: Standing water ponded on filter bed surface >3 hours after the end of a storm event	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:

FILTER BED	Trash: Trash is visible and impairing aesthetics or function of the BMP	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
	Filter bed erosion: Erosion gullies or bare areas \geq 30 cm in length are visible. Foot traffic has damaged the filter bed surface or is preventing vegetation from becoming established. Animal burrows are visible.	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
	Growing medium depth: Average depth matches design specification	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
PLANTING AREA	Vegetation cover: Less than 80% of planting area is covered by living vegetation	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
	Vegetation condition: Plants are not thriving, over-grown or over-crowded and impairing the aesthetic value of the BMP	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
	Vegetation composition: More than 50% of the vegetation is undesirable (e.g. weeds) or not the species specified in the planting plan. Volunteer tree or shrub seedlings are present where inappropriate	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____
OUTLET	Overflow outlet obstruction: Structural damage, sediment/trash/debris is obstructing outflow, structure is full of water or grate is missing	Comments/Measurements: Pass: _____ Fail: _____	Action: Timeframe: _____

Codes
Inspection type: C = Construction; A = Assumption; RO = Routine Operation; MV = Maintenance Verification; PV = Performance Verification
Comments: NA = not applicable; NI = not inspected.
Actions: 0 = no action necessary; 1 = routine maintenance needed; 2 = structural repair needed; 3 = further investigation needed.

Photographs:

Notes and Sketches:

IRRIGATION SYSTEM TESTING:

Inspection date and time:		Inspected by:	
TRIGGER FOR FOLLOW-UP	CONDITION		FOLLOW-UP
Components are damaged or leaking and impairing function of the irrigation system	Comments/Measurements:		Action:
	Pass:	Fail:	Timeframe:
Components are obstructed or misconfigured, causing uneven distribution of water to green roof vegetation	Comments/Measurements:		Action:
	Pass:	Fail:	Timeframe:

SOIL CHARACTERIZATION TESTING:

BMP Identifier	Inspection Type:
Sampling date and time:	Weather (24 hours prior to sampling):
Sampled by:	Sampling duration (minutes):

Sampling Location	Sample Collected? (Y/N)	Growing Medium Depth (cm)	Sample Location	Sample Collected? (Y/N)	Growing Medium Depth (cm)

Notes and Sketches:

GENERAL INFORMATION:

BMP Identifier:	Inspection type:
Address :	Location:
BMP construction date:	BMP assumption date:

VISUAL INDICATORS:

Inspection date and time:	Weather (24 hours prior to inspection):
Inspected by:	Inspection duration (minutes):

ZONE	INDICATOR & TRIGGER FOR FOLLOW-UP	CONDITION		FOLLOW-UP
CDA	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 BMP	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
INLET	Inlet structural integrity: Damage to, or displacement of the structures prevents or impairs the flow of stormwater into the BMP	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Inlet obstruction: Sediment/trash/debris ≥5 cm deep or blocking inflow over one third (33%) of the inlet width or area	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Pretreatment sediment accumulation: Device is ≥50% full of sediment/trash/debris or inflow of water to the BMP is impaired	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
CISTERN	BMP dimensions: Differ from design or as-built drawing by >10%	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:

	Cistern structural integrity: Cracks or leaks are visible in the cistern. Water level in the cistern is declining when no rainwater use is occurring or never fills completely	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
	Cistern sediment accumulation: Level of turbidity or discolouration of water drawn from the cistern is aesthetically unacceptable. Sediment depth is at the level of the distribution system intake structure when cistern water levels are at a minimum	Comments/Measurements:		Action:
		Pass:	Fail:	
OUTLET	Overflow outlet obstruction: Structural damage, sediment/trash/debris is obstructing outflow, structure is full of water or undersized.	Comments/Measurements:		Action:
		Water level (cm):		
		Pass:	Fail:	Timeframe:
CONTROL STRUCTURE	Control structure condition: Structure is inaccessible or ladder rungs are missing.	Comments/Measurements:		Action:
		Pass:	Fail:	Timeframe:
Codes Inspection type: C = Construction; A = Assumption; RO = Routine Operation; MV = Maintenance Verification; PV = Performance Verification Comments: NA = not applicable; NI = not inspected. Actions: 0 = no action necessary; 1 = routine maintenance needed; 2 = structural repair needed; 3 = further investigation needed.				

Photographs:

Notes and Sketches:

CISTERN PUMP TESTING:

Inspection date and time:		Inspected by:	
TRIGGER FOR FOLLOW-UP	CONDITION		FOLLOW-UP
Pump or distribution system components are damaged or leaking and not delivering water to fixtures	Comments/Measurements:		Action:
	Pass:	Fail:	Timeframe:
Pump is not delivering adequate water pressure to fixtures	Comments/Measurements:		Action:
	Pass:	Fail:	Timeframe: