# **3rd Party Construction Inspection Checklist and Certification: Bioretention**

DEQ Spec. No. 9 & PFM 6-1307

Project Na	ame:		Construction Firm:	
			3 <sup>rd</sup> Party Inspector's Name:	
_atitude /	Longitude:_	°N°W	Contact Info / Phone	Number:
BMP ID N	lumber as s	hown on plan and general location on the site:		
•	A Virginia	ation is required for all SWM/BMP facili a licensed professional engineer or lice Virginia §54.1-401 must sign the certific	nsed professional	meeting the exemption requirements of the
Instructi				
•	Fill in bla	ach item as complete, or write in "N/A" in nks for requested information on dimer one or more photos for applicable items	nsions, materials, e	etc.
Pre-Ins	tallation	Meeting and Site Preparation		
CHECK	РНОТО	DESCRIPTION		DATE OF INSPECTION / COMMENTS
		Pre-Installation Meeting with - contractor designated to install the facility - 3rd party inspector (or designee) - assigned County site inspector A review of checklist and tentative schedule inspections and sign-offs has been discuss	e for interim sed	
		Bioretention area has not been impacted du or has been remediated prior to installation Circle one: Not Impacted   Remediated	d	
		Impervious cover draining to the BMP have and area is free of equipment, vehicles and		
		Pervious areas of contributing drainage are stabilized with adequate vegetation.	ea have been	
		Stormwater diverted around the bioretentio perimeter E&S controls to protect the BMP have been installed.		
		Drainage area slopes toward the bioretentic	on facility.	
Excava	tion			
CHECK	РНОТО	DESCRIPTION		DATE OF INSPECTION / COMMENTS
		Size & horizontal location conforms to appr Area of Excavation	oved plans.	
		If the area has previously been used as sed that the bottom of the proposed stone reser the bottom elevation of the existing trap.		
		Level 2 bioretention: Excavation bottom was placement of stone.	as scarified prior to	
		Subgrade surface free of rocks, roots, and I may be refilled with base aggregate to creat the placement of aggregates and underdrain	te a level surface for n.)	
		No groundwater seepage or standing water standing water is dewatered to an acceptab device, and the design consultant has been	le dewatering	
		Excavation depth and side grades per appropriate Depth of Excavation ft.	oved plans.	

Grade of Side Slope\_\_\_\_\_

\_\_\_ ft./ft.

Excavation of the facility bottom has not compacted the bottom of the facility.

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### Filter Layer, Underdrain and Stone Reservoir Placement

CHECK	РНОТО	DESCRIPTION	DATE OF INSPECTION / COMMENTS		
		All aggregates (stone, sand, etc., as required) conform to specifications.			
		Impermeable liner (when required) is placed in accordance with manufacturer specs & approved plans.			
		Sides of excavation covered with geotextile (when required), with no tears, holes, or excessive wrinkles.			
		Underdrain size, spacing, base material installed per approved			
		plans.			
		Underdrain Diameter inches			
		Underdrain Material			
		Underdrain Spacing ft.			
		Perforation Size & Spacinginches.			
		Number of Cleanouts			
		Restriction device / flow control device (when required) placed per approved plans.			
		Observation well(s) installed.			
		Number			
		Stone placed to achieve the required storage depth.			
		Depth of gravel stone sump layer ft.			
	☐ Filter layer (choker stone/pea gravel/sand) installed per				
		approved plans.			
		Choker material:			
		Depth of choker material:			
Soil Media Placement					
CHECK	РНОТО	DESCRIPTION	DATE OF INSPECTION / COMMENTS		
		Soil media certification per project specifications.			
		Filter media placed in 8 – 12 inch lifts.  No machinery over the filter media.  Filter media raked to a level grade after final lift.			
		Depth of filter media  Depth: ft.			
		Filter media settlement Facility flooded (2-4 days after initial placement) until underdrain activated. Top elevation verified after draining.			

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#### **Final Stabilization and Plant Installation**

CHECK	РНОТО	DESCRIPTION	DATE OF INSPECTION / COMMENTS			
		Energy dissipators and pretreatment practices conform to				
		approved plans.				
		List practices here:				
		External bypass structure (when required) conforms to approved plans.				
		Mulch composition and depth conform to approved plans.				
		Depth of mulch layer: Inches				
		Final ponding depth (from top of mulch to lowest overflow				
		point) conforms to plan.				
		Depth of ponding areaInches.				
		(above mulch, 12" maximum)				
		Riser or overflow weir conforms to approved plans.				
		Overflow berm conforms to approved plans.				
		Berm Heightft.				
		(from d/stream toe, max. 2 ft)				
		Berm Width (usually 2 ft.) ft.				
		Side Slopes (max. 3:1)%				
		Signs installed as shown on approved plans.				
		Plant installation conforms to approved plans, and all plants are healthy.				
		Final grades within the bioretention after plant and mulch installation match the approved plan elevations.				
		Provide a photo of the BMP facility after completion of construction.				
Final Ce	ertificatio	on				
		y that this as-built information for the stormwater manage	omant/RMD facility was inspected by me (or by			
		er my responsible charge) and conforms to the approve				
Signatur	e:		Date:			
J 1511 W						
License Number (Seal):						
License Number (cear).						

("Certify" means to state or declare a professional opinion based on sufficient and appropriate onsite inspections and material tests conducted during construction)