BIORETENTION/INFILTRATION BASIN CHECKLIST

Basin Name(s):_____

Yes	No	N/A	#	LAND USE AND DRAINAGE AREA
☐	☐	☐	*A.1*	Extent of constructed impervious area and land use are consistent with the design *(*See below if the land use is inconsistent or the constructed impervious area exceeds the design)*
☐	☐	☐	*A.2*	Watershed area to the facility is consistent with the design *(*See below if the constructed condition results in an increase in the facility's designed watershed area)*
Yes	**No**	**N/A**	**#**	**CONSTRUCTION METHODS AND MATERIALS**
☐	☐	☐	*B.1*	Compaction and smearing of the soils beneath the floor and side slopes of the of the facility have been minimized
☐	☐	☐	*B.2*	Native soil type encountered along extents is as designed *(*See below if the native soil infiltration rates are less than designed)*
☐	☐	☐	*B.3*	Engineered soil composition meets specification (attach load tickets)
☐	☐	☐	*B.4*	Storage layer and storage layer to native soil interface meet specifications
☐	☐	☐	*B.5*	Plant spacing verified
☐	☐	☐	*B.6*	Observation wells have been installed to the quantity and location in plan drawings
☐	☐	☐	*B.7*	Photo documentation of excavated basin, completed basin, and other relevant construction phases attached
Yes	**No**	**N/A**	**#**	**SURFACE AREA AND AVAILABLE STORAGE**
☐	☐	☐	*C.1*	Post construction contours of the stormwater facility, including any forebays, shown on record drawings
☐	☐	☐	*C.2*	Calculations of the facility's soil surface area attached
☐	☐	☐	*C.3*	Calculations of the facility's volume attached *(*See below if the constructed volume is less than designed)*
Yes	**No**	**N/A**	**#**	**INLET AND OUTLET STRUCTURES**
☐	☐	☐	*D.1*	Diameter and material of all inlet and outlet pipes shown on record drawings
☐	☐	☐	*D.2*	Invert elevations of all inlet and outlet pipes shown on record drawings
☐	☐	☐	*D.3*	Dimensions and material of overflow and outfall structures shown on record drawings
☐	☐	☐	*D.4*	Elevations of top of banks and overflow berm shown on record drawings
☐	☐	☐	*D.5*	Drain tile installed at proper location
Yes	**No**	**N/A**	**#**	**VEGETATION**
☐	☐	☐	*E.1*	Basin vegetation is as specified in the plans and established. Include copy of seed or plant invoice
Yes	**No**	**N/A**	**#**	***POST CONSTRUCTION MODELING - Provide the following information if the constructed facility is not in accordance with plan drawings and design**
☐	☐	☐	*F.1*	Perform modeling calculations for total suspended solids (New development: 80% reduction in TSS, Redevelopment: 40% reduction in TSS)
☐	☐	☐	*F.2*	Perform modeling calculations for peak discharge rates (1, 2, 10, and 100 year 24 hour storm events)
☐	☐	☐	*F.3*	Perform modeling calculations for infiltration (90% of predevelopment volume)
☐	☐	☐	*F.4*	Constructed design achieves the applicable performance standards

Explain any items (reference item #) on the checklist for which you selected "no" (attach additional sheet(s) if necessary):