CHECKLIST FOR INSPECTION OF BIORETENTION SYSTEM/TREE FILTERS

Location: Morrill, STG, 6011 S. Rockwell

Inspector: Chris Bourbois

Date: August 15th 2023

Time: 10:30AM

Site Conditions: Sunny, 68°

Days Since Last Rain Event: 1

nspection Items Satisfactory (S) or		
	Unsatisfactory	['] (U)
1. Initial Inspection After Planting		The installed plants left here are healthy, but there are few of them and much of
Plants are stable, roots not exposed	S (the site is bare ground and weedy
Surface is at design level, no evidence of	S U	species that are struggling to establish
preferential flow/shoving		(purslane, crabgrass, quackgrass).
Inlet and outlet/bypass are functional	S U	Luckily, despite the bare ground there is no evidence yet of preferential flow or
		inlet/outlet problems.
2. Debris Cleanup (1 time/year minimum, Spring/Fall)		The site is clean and contains no dead
Litter, leaves, and dead vegetation removed	S U	leaves, dead vegetation, or litter. The trees on site are healthy and not in need
from the system		of pruning, while the vegetation is not
Prune/mow vegetation	S U	dense enough currently to need mowing.
3. Standing Water (1 time/year and/or after large storms)		No standing or pooled water one day
No evidence of standing water after 24-48	S U	after rain. Outlet drain is not vegetated but is like the rest of the site and does
hours since rainfall		not show evidence of pooling water.
4. Vegetation Condition and Coverage		Vegetation conditions are fairly poor
Vegetation condition good with good	S ()	here overall. Although the trees (swamp white oaks and american hophornbeams)
coverage (typically >75%)		and shrubs are good choices and in good
3 ()1		shape, the complete lack of a ground
		layer of vegetation is a serious problem.
		The lack of real invasive species allows
		for an easier path to an effective native
		community than at other sites, but it still can not be said to be in good shape.
_	l al Comments	can not be said to be in good snape.

This site is in fairly poor shape, but the lack of invasive species and the healthy tree and shrub populations should allow for easier establishment of a native ground cover community. In the higherlying areas, it should be as simple as seeding and planting plugs while maintaining the mulching of the site. The mulch seems to have helped prevent invasive species establishment in these areas, so using that to cover areas that are not vegetating should be continued. The lower-lying area may be more complicated to effectively vegetate. It seems to be a fairly wet system, enough so that even the crabgrass/quackgrass/purslane is having trouble establishing. Given this fact, plants installed in this area will need a clear preference for wet areas, perhaps enough that only obligate wetland plants should be installed. Additionally, there should be some consideration for placing large flagstones or a number of smaller rocks underneath the boardwalk areas. The areas underneath these boardwalks receive little light and are unlikely to be effectively vegetated by native species. The areas may also be too marginal for invasive species, but rock placements will ensure invasive species cannot grow there while also slowing down stormwater on its way to the drain outlet. It would also probably be best to start with plugs, since the qualities of the site would likely make it hard for seedlings to establish without being washed away by stormwater. A combination of sedge and rush plugs and wetland grass plugs (perhaps bluejoint grass, prarire cordgrass, and/or switchgrass) could be the start of revegetating the lower-lying areas, although the site should be monitored to determine if the trouble with vegetation is being caused by the wetness or the shadiness of the area.