## CHECKLIST FOR INSPECTION OF BIORETENTION SYSTEM/TREE FILTERS

Location: Cermak Rd between Ashland and Halsted, Blue Island Ave between Ashland and Western

Inspector: Chris Bourbois

Dates: September 7<sup>th</sup> and 12<sup>th</sup> 2023

Time: 1 PM both days

Site Conditions: Cloudy, roughly 69° both days

Days Since Last Rain Event: 1 in both cases

Inspection Items	Satisfactory (S) or Unsatisfactory (U)		Comments/Corrective Action
1. Initial Inspection After Planting			The installed plants here still appear
Plants are stable, roots not exposed	S	U	although the size and age of these installations can make determining which individuals and species were originally planted difficult. In areas still populated by grasses, there is no evidence of preferential flow. In areas that are now mostly bare ground, there is clear evidence of preferential flow and rutting. Some inlets and outlets remain functional and are protected by vegetation and rock structures. Some others have no protection remaining and are dealing with erosion and influxes of litter/vegetative debris at their inlets.
Surface is at design level, no evidence of preferential flow/shoving	S	Ű	
Inlet and outlet/bypass are functional	S	Û	
2. Debris Cleanup (1 time/year minimum, Spring/Fall)			There is little to no standing dead
Litter, leaves, and dead vegetation removed from the system	S	U	system. However, there is a lot of litter across the system, as well as some vegetative debris. Much of this appears to be being carried into some GSI structures by stormwater, often accumulating near inlets. Pruning and mowing could both be beneficial in certain areas, as some areas are very overgrown, while others have reed canary grass populations that could begin to be controlled by repeated mowings.
Prune/mow vegetation	S	Û	
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 hours since rainfall	S	U	clearly experiencing erosional issues and rutting, either because they have lost their vegetation or because they have an inlet that is not protected by vegetation or rock barriers.

4. Vegetation Condition and Coverage			Vegetation conditions are very mixed here. This is a very large site that has extremely variable conditions		
Vegetation condition good with good coverage (typically >75%)	S	U	throughout its multi-mile stretch. Given the size of the site and the age of these installations, there is a pleasantly surprising lack of serious invasive species concerns. Some areas have some reed canary grass, but these areas also have native grasses (prairie		
			cordgrass and big bluestem) and are not monocultures. Reed canary grass was also the only serious invasive species observed, although there are plenty of field weeds like mugwort, curled dock, yellow toadflax, barnyardgrass, foxtail, yarrow, and smartweed.		
Final Comments					
This site is challenging to assess as a whole because of its size and the variability of its installations.					
Some areas are not vegetated at all and are therefore experiencing erosional issues, preferential flow,					
and rutting. Other unvegetated areas are well mulched and are not experiencing the same problems,					
while also theoretically being well positioned to get native plants established. Some of the non-					
vegetated installations are xeriscaped effectively, with large rocks surrounding a single, healthy tree.					
The areas that are obviously receiving maintenance (like outside Juarez academy or outside some of					
the residential areas) are generally in decent shape. The areas outside Juarez are filled with sunflowers,					
boneset, switchgrass, milkweed and goldenrod, while the residential areas are filled with cultivated					
roses, amaranth, and hydrangeas. Some areas that don't appear to be receiving much maintenance, like					
on the southern side of Blue Island, are severely overgrown with field weeds like mugwort,					
barnyardgrass, and curled dock and are being brushed in by tree of heaven and other adventive woody					
species. Others still retain some native quality, like some of the bioswales along the southern side of					
Cermak. These bioswales unfortunately have a significant amount of reed canary grass, but many of					
them also had populations of sedges, switchgra	ass, milkweed,	big blues	stem, and prairie cordgrass, of		
which the latter two were not often seen at sites in this inventory. Given the wide range of conditions					
here, it may be best to take action based on management capabilities. The first priorities for					
improvement are likely the rutted, non-vegetated areas along Cermak and the overgrown areas along					
Blue Island. The rutted areas are not currently functional and would likely need plug plantings of wetland					
plants (perhaps of some sedges and of the prairie cordgrass doing well elsewhere), along with					
maintenance to ensure their establishment. The overgrown Blue Island installations are beginning to					
encroach onto sidewalk space and should be pruned/mowed to a manageable state again, before					
adding native plants again. However, if difficulty maintaining these native communities remains, it may					
be better to simply use rock formations, or use ornamental plants that have also been doing well in the					
area, with such a large number of installations, maintaining native wet prairie and wetland communities					
in regeneration, it may be best to dedicate maintenance time to the bighest quality areas while to the					
for easier to manage colutions in the proper that are not recording well (like the aforementioned					
For easier to manage solutions in the areas that are not responding well (like the atorementioned verises pring and use of mulch + or pamentale).					
xenscaping and use of multine of dimentals).					