Site ID/Name:	Location:	Inspector:	Date:
J. 100 12 / 1 141110	 		

## **BIORETENTION**

Applies to Bioinfiltration, **Bioswales (Dry Enhanced** 

structure?

COMMENTS:









18. Do these structures have trash, debris, sediment or structural damage

19. Is there evidence of erosion, scour, or flooding around the structure?





YES / NO

## Swales) and Rain Gardens. **GOOD EXAMPLES GENERAL INSPECTION QUESTIONS** Note: 'Yes' indicates a maintenance need and action 9. Does the area around the inlet structure (including filter strip and grass General: channels) need to be mowed? 10. If a diversion structure (high flow bypass structure or underdrain) is present, 1. Is access to the site inadequately maintained for inspection and maintenance? YES / NO 2. Are grass clippings present in the drainage area or within the system is there presence of trash, debris, on sediment? [inlet structure, pretreatment (filter strip and grass channel), main **Main Treatment:** treatment, or outlet/overflow structure]? (Note: grass clippings should be removed) YES / NO 11. Is there evidence of long-term ponding or standing water in the practice **Drainage Area:** (pertains to the surrounding landscape that will contribute runoff to the practice) (more than 48 hours after a rain event)? (e.g., stains, odors, mosquito larvae, etc.) 3. Is there any exposed or unstable soil that could cause sediment accumulation 12. Is there any evidence of fertilizer use on plants? (e.g., fertilizer crusting on within the practice? YES / NO surface of soil, tips of leaves turning brown or yellow, blackened roots, etc.) 4. Do the drainage ways (overland flow or pipes) to the practice have trash, YES / NO 13. For practices with internal check dams to allow for surface ponding on a debris, grass clippings, large branches, etc. present? slope, is there erosion present around the side of the check dams? **Inlet Structure / Pretreatment: (Choose One)** 14. Is the mulch depth inadequate or too deep? Note: target depth is 2 to 4 inches **C.** Filter Strip / Grass Channels D. Rock-Lined Plunge Pools A. Forebay B. Weir **Underdrain:** (if installed) 5. Does this area have trash, debris, or sediment present? YES / NO 15. If cleanouts are included, are caps missing? 6. Condition of A-D listed above: A/C: Is there any undesirable vegetation or unhealthy grass (bare or dying)? YES / NO 16. Are cleanout caps in poor condition? (e.g., inadequately sealed or set below maximum **B:** Is the sediment more than 25% of the total depth of the weir? YES / NO ponding depth) **D:** Is the rock thickness in the pool inadequate? YES / NO 17. Are there any signs of the underdrain being clogged or a blockage? 7. Is there evidence of runoff short-circuiting (going around) the inlet structure? YES / NO **Emergency Overflow / Outlet Structure:** 8. Is there evidence of gullies, rills, or erosion around the inlet or pre-treatment

YES / NO

present?

## QUALITATIVE INSPECTION QUESTIONS (GOOD/MARGINAL/POOR)

Note: 'Poor' indicates a maintenance need and action

- 20. Rate the presence of sediment accumulation in the bioretention surface area.
- 21. Rate the presence of debris (e.g., leaves, trash, grass clippings) in the bioretention surface area.
- 22. Rate the presence of undesirable vegetation.
- 23. Rate the condition of plant health per landscaping plan and site objectives.\*
- 24. Rate the condition of plant density per landscaping plan and site objectives.\*
- \* General percentages provided if landscaping plan and site objectives are not available

GOOD (<25% of area)

GOOD (<25% of area)

GOOD (>50% vegetation coverage)

MARGINAL (25%-50% vegetation) POOR (overgrown or <25% vegetation)

**MARGINAL (25-50%) MARGINAL (25-50%)** GOOD (<25% of area) **MARGINAL (25-50%)** MARGINAL (25%-50% dying/stressed) GOOD (<25% dying/stressed)

## **EXAMPLES OF POTENTIAL ISSUES:**



**5 INLET SEDIMENT** 



**5 INLET STRUCTURE DEBRIS & SEDIMENT** 



**8 INLET EROSION (GRASS CHANNEL)** 



8 INLET EROSION (ROCK PLUNGE POOL)



POOR (>50%)

POOR (>50%)

POOR (>50%)

POOR (>50% dying/stressed)

8 PRETREATMENT EROSION (FILTER STRIPS), 14 MULCH (NONE), & 24 PLANT DENSITY (POOR)



**8 PRETREATMENT EROSION (SLIDE** SLOPES) & 22 UNDESIRABLE **VEGETATION** (POOR)



11 EXCESSIVE PONDING (CATTAILS & STAINING)



14 MULCH (NONE), 18 OUTLET DEBRIS, & 22 UNDESIRABLE **VEGETATION** (MARGINAL)



14 MULCH (NONE) & 22 UNDESIRABLE VEGETATION (POOR)



14 MULCH (NONE) & 24 PLANT DENSITY (POOR)



14 MULCH (<2"), **22 UNDESIRABLE VEGETATION (MARGINAL)** & 24 PLANT DENSITY (MARGINAL)



**18 OUTLET DEBRIS** 



19 OUTLET STRUCTURE EROSION



**23 PLANT HEALTH** (POOR - EXPOSED ROOTS AND UNSTABLE)



23 PLANT HEALTH (GOOD) & 24 PLANT DENSITY (POOR - OVERGROWN)