Alameda Countywide
Clean Water Program
A Consortium of Local Agencies

STORMWATER TREATMENT MEASURE CONSTRUCTION PHASE INPSECTION CHECKLISTS

The checklists on the following pages are for use when inspecting the construction of permanent, post-construction stormwater treatment measures. ACCWP has prepared a separate checklist (Inspection Checklist for Construction Stormwater Controls) for inspecting construction sites to enforce the implementation of appropriate sediment and erosion controls and other construction-phase best management practices (BMPs).

The ACCWP's New Development Subcommittee is providing these inspection checklists to its member agencies to reference when conducting construction phase inspections of post-construction stormwater treatment measures. The checklists refer specifically to treatment measures for which technical guidance is included in the ACCWP's C.3 Stormwater Technical Guidance (August 2006). These consist of vegetated swales, vegetated buffer strips, tree well filters, media filters, flow-through planters, bioretention areas, infiltration trenches, and extended detention basins.

Each checklist is divided into periods in which inspections may take place. The treatment measure "preconstruction" items should be viewed before the treatment measure is constructed, while other project activities are being inspected. "Rough grading" items should be viewed during site grading activities. The "structural" items should be viewed while soil is imported and mixed and/or the local storm drain system is installed. The "vegetation" items should be viewed during landscaping phases. The "final inspection" items should be viewed when the treatment measure has been installed

ACCWP
6.1 - Vegetated Swale Construction Phase Inspection Checklist

Inspection Date: _____ Inspector: _____

1. Inspection Type: ❑ Rough Grading ❑ Structural ❑ Plumbing ❑ Final
❑ Follow-up ❑ Other: _____

2. Project Name: _____ 2a. Project No./Permit No.: _____

Location: _____

3. Site Contact: _____ 3a. Site Phone No.: _____

4. Mailing Address: _____

5. Developer: _____ 5a. Developer Phone No. _____

6. Developer Mailing Address: _____

7. Permit Type: ❑ Building Permit ❑ Site Development ❑ Capital Improvement

8. Project Type: ❑ Commercial/Industrial ❑ Residential ❑ Public Improvement
❑ Other: _____

	Adequate	Non-Compliant	Comments/Date for Correction
9. Preconstruction (before treatment measure is constructed)			
❑ a. Location is staked out and consistent with site layout.	❑	❑	❑ _____
❑ b. Check for utility/electrical conflicts.	❑	❑	❑ _____
❑ c. Check for vegetation conflicts.	❑	❑	❑ _____
❑ d. Check for protection of existing vegetation, especially trees to remain.	❑	❑	❑ _____
❑ e. Storm drain connection elevation is field verified and there is positive drainage from the treatment measure to the connection point. Or, check for pumps specified in the plans.	❑	❑	❑ _____

	Adequate	Non-Compliant	Comments/Date for Correction
10. Rough Grading:			
❑ a. A SWPPP and/or erosion control plan is available for review.	❑	❑	❑ _____
❑ b. Over-compaction of treatment area has been avoided.	❑	❑	❑ _____
❑ c. Soil or fill used by the treatment measure is certified by the supplier.	❑	❑	❑ _____
❑ d. If imported soil is used, documentation of fill soil specifications and on-site permeability test results are provided.	❑	❑	❑ _____
❑ e. If native soils are used, soil permeability and mix-in components are confirmed by laboratory.	❑	❑	❑ _____
❑ f. Mulch, if used, conforms to specifications and is stable when runoff flows through swale.	❑	❑	❑ _____
❑ g. Swale conforms to dimensions on plans.	❑	❑	❑ _____
❑ h. Longitudinal slopes are within design range.	❑	❑	❑ _____

	Adequate	Non-Compliant	Comments/Date for Correction
❑ i. Stable side slopes.	❑	❑	❑ _____
11. Structural Components:			
❑ a. Finished grades will allow drainage into swale.	❑	❑	❑ _____
❑ b. High flow bypass for the treatment measure is clearly visible.	❑	❑	❑ _____
❑ c. An access path is provided to the treatment measure for inspection and maintenance.	❑	❑	❑ _____
❑ d. Swale construction complies with specifications.	❑	❑	❑ _____
❑ e. Dewatering fill meets soil specifications for treatment measures.	❑	❑	❑ _____
❑ f. Top dressing meets soil specifications for treatment measures.	❑	❑	❑ _____
❑ g. Soil is compacted and tested for percolation following soil specifications for treatment measures.	❑	❑	❑ _____
Where under-drain is used:			
❑ h. Location of pipe is verified.	❑	❑	❑ _____
❑ i. Under-drain complies with specifications.	❑	❑	❑ _____
Where curb cuts are used:			
❑ j. Curb cuts comply with specifications.	❑	❑	❑ _____
❑ k. Curb cut openings match number on plans.	❑	❑	❑ _____
❑ l. Top of rocks/grass (to ultimate design height) is lower than curb cut openings, to allow runoff to enter swale with plantings in place.	❑	❑	❑ _____
❑ m. Cobbles or other erosion control is placed at opening.	❑	❑	❑ _____
Where check dams are used:			
❑ n. Check dams comply with specifications.	❑	❑	❑ _____
❑ o. Erosion control is provided on downstream end of check dams.	❑	❑	❑ _____
Where inlets are used:			
❑ p. Inlets comply with specifications.	❑	❑	❑ _____
❑ q. Inlets are protected from erosion.	❑	❑	❑ _____
Where outfalls convey stormwater to swale:			
❑ r. Outfalls comply with specifications.	❑	❑	❑ _____
❑ s. Outfalls are protected from erosion.	❑	❑	❑ _____

	Adequate	Non-Compliant	Comments/Date for Correction
12. Vegetation:			
❑ a. Irrigation system is active.	❑	❑	❑ _____
❑ b. Landscape Architect has signed off on plans (if applicable).	❑	❑	❑ _____
❑ c. No bare soil is exposed. Ground is covered with plants and a minimum of 3" mulch. Verify that mulch is kept a minimum of 6" away from trunks of trees and shrubs.	❑	❑	❑ _____
❑ d. Mulch is stable when runoff flows through swale and conforms to specifications.	❑	❑	❑ _____

	Adequate	Non-Compliant	Comments/Date for Correction
❑ e. Trees, shrubs and structures are kept out of flow lines of swales and do not obstruct water movement.			
❑ f. Vegetation and planting conform to approved plans and specifications.	❑	❑	❑ _____
❑ g. The treatment measure vegetation is established prior to October 1st.	❑	❑	❑ _____
❑ h. The vegetation surrounding the treatment measure is established and vegetation planting conforms to approved plans and specifications.	❑	❑	❑ _____
If Not:			
❑ i. Steps are taken to secure loose soil and fill from blowing or washing into treatment measure.	❑	❑	❑ _____

	Adequate	Non-Compliant	Comments/Date for Correction
13. Final Inspection:			
❑ a. The maintenance form is available for review.	❑	❑	❑ _____
❑ b. Overall dimensions conform to specifications.	❑	❑	❑ _____
❑ c. There is positive drainage to the treatment measure.	❑	❑	❑ _____
❑ d. Runoff flows into and through swale easily.	❑	❑	❑ _____
❑ e. Vegetation is as shown on plans.	❑	❑	❑ _____
❑ f. Vegetation is healthy and established.	❑	❑	❑ _____
❑ g. Irrigation system is functioning as designed.	❑	❑	❑ _____
❑ h. There is no bare soil exposed.	❑	❑	❑ _____
❑ i. Mulch, where used, is uniformly placed at a minimum depth of 3" and kept 6" away from trunks of trees and shrubs.	❑	❑	❑ _____

Landscaping is typically contractor liable for the first 90 days after landscaping has been placed. After 90 days landscaping liability typically falls to the property owner.

14. Enforcement /Follow-Up Follow-up inspection date: ____/____/_____.

Corrective action(s) to be taken to remedy problems and date for completion: _____

_____

_____

Comments: _____

_____

_____

Enforcement Actions: ❑ Verbal Notice ❑ Notice to Comply ❑ Notice of Violation

❑ Regional Water Board Referral

15. Inspector's Signature: _____ Date: _____

16. Name of Site Superintendent (Print): _____

17. Signature of Site Superintendent: _____ Date: _____