Regulatory Refresher – What Construction Site Inspectors Need to Know about the MRP

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Outline of Presentation

- Construction Site Inspection Requirements - C.6
- Copper Architectural Features BMP Requirements – C.13
- Inspection of Permanent SW Controls –C 3
- Resources



What is the Municipal Regional Permit (MRP)?

- Regional permit regulating municipal stormwater systems
 - Adopted by Regional Water Board: October 14, 2009
 - Effective date: December 1, 2009
 - Permit renewed every 5 years
- Applies to cities, counties, and districts in:
 - San Mateo, Santa Clara, Alameda, Contra Costa and Counties
 - Fairfield and Suisun City (Solano County)
 - Vallejo (Solano County)



Construction Site Control Program

- Provision C.6 of MRP
- Implement a construction site inspection and control program at all construction sites
- Prevent discharges of pollutants and impacts on receiving waters
- When does this apply?
 —All year long!



Construction Site Control Program Requirements

- Legal authority
 - to require all construction sites have year round effective BMPs,
 - to inspect sites and
 - require compliance
- Implement Enforcement Response Plan (ERP)
 - Identify enforcement actions and timeframes for problem correction.
 - Violations required to be corrected within 10 business days (or before next rain event) – OR record rationale for longer compliance.
 - Follow procedure for escalating enforcement response.



Construction Site Control Program Requirements

- Plan Approval Process:
 - Verify Plans comply with local ordinance/ requirements
 - Verify sites disturbing ≥ 1 acre filed NOI for Construction General Permit
 - Provide educational materials
- Pre-wet season letter to sites disturbing 1 acre or more



Construction Site Control Program Requirements

- Require appropriate BMPs within 6 categories:
 - · Erosion control
 - Run-on and run-off control
 - Sediment control
 - Active treatment systems (as needed)
 - Good site management
 - Non-stormwater management



Construction Site Inspection Requirements

- Monthly inspections (at least) during wet season for sites
 - disturbing ≥ 1 acre, or
 - · identified as "high priority"
- What is a high priority site?
 - Identified by your municipality
 - Generally, site disturbing < 1 acre that has
 - steep slope,
 - adjacent to creek,
 - compliance issues, and/or
 - high soil erosion potential (e.g. soil type)



Construction Site Inspection Requirements

- When is the wet season?
 - October 1st April 30th
- When construction ends during wet season:

is fully stabilized

- during wet season:Continue stormwater inspections until site
- If stabilizing with vegetation, assume "fully stabilized" when there is 70% vegetative cover



Construction Site Inspection Requirements

- Inspect public (e.g. Capital Improvement Projects) and private sites
- Inspection Content
 - Compliance w/Permittee's ordinances & permits
 - Adequacy & effectiveness of BMPs
 - Visual observations for actual/potential discharges or illicit connections
 - Education



Construction Site Inspection Record keeping

- Tracking and reporting of data:
 - Weather during inspection and whether it rained since the last inspection
 - Specific problems within six categories of BMPs
 - Length of time to correct violations
 - Enforcement response level Resolution of problems
 - Comments
- Database or spreadsheet of inspection results*
- Inspection tables should match summaries in Annual Report

*Regional Water Board has requested these tables





Stormwater Inspection Forms Document Problems in Six BMP Categories Non-17. BMPs Implementation: compliant Describe Specific Problem **Erosion Control** Run-on and Run-off Control Sediment Control Active Treatment Systems Good Site Management Non Stormwater Management

Stormwater Inspection Forms Enforcement Actions Resolution of Problem Problems fixed Need More Time Escalate Enforcement Comments: rationale for longer compliance time, all escalation in enforcement discussions, relevant information Resolution of Problems fixed Need More Time Resolution State Service Service







Provision C.3 Requirements

Provision C.3 New & Re-Development

- Permanent Stormwater Controls
- Inspect stormwater treatment measures



Provision C.3 Requirements

- Source control measures
 - All projects
 - Reduce pollutant sources
- Site design measures
 - All projects
 - Reduce imperviousness, disconnect from storm drain
 - Use pervious paving



C.3 Requirements

- Stormwater treatment
 - Projects that create and/or replace ≥10,000 sq. ft. of impervious surface or 5,000 sq. ft. for auto service facilities, gas stations, restaurants, and parking
 - Remove pollutants using natural processes
 - Beginning 12/1/11 "treatment" is rainwater harvesting/reuse,

infiltration, evapotranspiration, or, if these are infeasible, biotreatment (no vaults).



C.3 Requirements

- Hydromodification Management
 - Projects in susceptible areas that create and/or replace 1 acre or more of impervious surface and generate increased flows that may cause erosion in streams
 - Control erosive flows by detaining and slowly releasing stormwater through site design or structural measures







C.3 Inspection Requirements

- BMP O&M Verification
 - Requirements apply to all onsite, joint, and/or offsite treatment and HM controls
 - Municipalities must maintain a database of Regulated Project treatment/HM controls
 - Report on inspections in Annual Report



C.3 Inspection Requirements

- BMP O&M Verification
 - More specific requirements for number of inspections and frequency:
 - -Inspection of new BMPs within 45 days of
 - $-\mbox{Inspection}$ of at least 20% of all BMPs installed
 - Inspection of at least 20% of total vault-based or proprietary systems
 - Inspection of all BMPs at least once every 5 years



C.3 Post Construction BMPs Relationship to C.6 Inspector

- May be the same inspector doing both inspections
- Post construction BMPs used during construction phase
 - Not recommended
 - Likely not designed to handle sediment loading of active construction site



C.3 Post Construction BMPs Relationship to C.6 Inspector

- Post construction BMPs used during construction phase (continued)
 - If installed should be protected
 - If C.3 BMP is unprotected or impacted by sediment require corrective actions
 - Communicate with C.3 inspector may not be obvious during 45 day inspection BMP impacted by construction sediment



For More Information..



- Municipal Regional Stormwater Permit www.waterboards.ca.gov/sanfranciscobay/water issues/programs/stormwater/mrp.shtml
- SMCWPPP Construction BMP Resources http://flowstobay.org/construction
- CASQA Construction BMP Handbook Portal (available on web by subscription – contact your agency stormwater coordinator for information on how to access the portal)
 www.casqa.org



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