

**Los Angeles MS4 Permit:
Workshop
Minimum Control Measures**

Metropolitan Water District

March 1, 2012

Storm Water Management Program: Minimum Control Measures

40 CFR 122.26(d)(2)(iv)

- Industrial / Commercial Program
- Development Construction Program
- Illicit Connections/Illicit Discharges Elimination Program
- Public Agency Activities Program
- New Development/Redevelopment Program
- Public Information and Participation Program

Minimum Control Measure – Industrial/Commercial Sources

- Key Objective: Ensure the implementation of BMPs at industrial/commercial facilities to reduce the contribution of pollutants to the MS4 from industrial/commercial activities.
- Key Requirements
 - Watershed-based database of all industrial and commercial facilities
 - 2 Inspections of all designated industrial/commercial facilities within 5 years
 - Ensure BMP implementation (e.g. CASQA manual)
 - Verification of Permit Coverage and No Exposure Condition (if Necessary)
 - Investigation of Regional Board Submitted Complaints

Minimum Control Measure – Development Construction Program

- Key Objective: Ensure the implementation of BMPs at construction sites to reduce the contribution of pollutants to the MS4 from construction activities.
- Key Requirements
 - Inventory of grading permits, encroachment permits, demolition permits, building permits, or construction permits
 - **Development, review and written approval of a Erosion and Sediment Control Plan (ESCP)**
 - BMP implementation (per CASQA or Caltrans manual)
 - **Tiered Requirements**

Minimum Control Measure – Development Construction Program

- Significant Comment(s)
 - Substitution of State SWPPP (GCASP) for Erosion and Sediment Control Plan

Minimum Control Measure –Illicit Connections and Illicit Discharges Elimination (Non-stormwater Discharges Oversight)

- Key Objective: Effectively prohibit non-storm water discharges to the MS4.
- Key Requirements
 - Development procedures for conducting source investigations for IC/IDs
 - Development of procedures for eliminating for IC/IDs

Minimum Control Measure – Public Agency Activities Program

- Key Objective: Minimize storm water pollution impacts from permittee owned or operated facilities and activities.
- Key Requirements
 - Maintain an inventory and map of all Permittee-owned or operated facilities.
 - Implement activity specific BMPs (such as catch basin cleaning, open channel maintenance, street sweeping, and appropriate pesticide application)
 - Training of employees and contractors.

Minimum Control Measure- New Development and Redevelopment

- Key Objective: Minimize the impacts of development and significant re-development projects on water quality and hydrology.
- Key Requirements
 - **On-site retention of the storm water runoff volume resulting from the 85th percentile, 24-hour storm or the 0.75 inch 24-hour storm, whichever is greater.**
 - Off-site mitigation required where on-site retention is technically infeasible.
 - Development of a prioritized list of off-site mitigation projects
 - **Offsite Alternatives**
 - **Retrofit Incentive**
 - **Groundwater Replenishment**

Minimum Control Measure- New Development and Redevelopment

- Significant Issue(s)
 - Equivalency Demonstration of Local LID Ordinances.
 - The allowance of infiltration to augment groundwater recharge in lieu of on-site infiltration.

Minimum Control Measure- New Development and Redevelopment

Hydromodification (Sites < 50 acres)

- Applies to “Natural Drainage Areas”
- Requirements
 - On-site retention of the volume of runoff from the 95th percentile, 24-hour storm, or
 - BMP implementation to ensure the runoff flow rate, volume, velocity, and duration for the post-development condition do not exceed the pre-development condition for the 2-year, 24-hour rainfall event.
 - The Erosion Potential (Ep) in the receiving water channel will approximate 1, as determined by a Hydromodification Analysis Study

Minimum Control Measure- New Development and Redevelopment

Hydromodification (Sites > 50 acres)

- Applies to “Natural Drainage Areas”
- Requirements
 - On-site project infiltration of at least the runoff from a 2-year, 24-hour storm event, or
 - BMP implementation to ensure the runoff flow rate, volume, velocity, and duration for the post-development condition do not exceed the pre-development condition for the 2-year, 24-hour rainfall event. These conditions must be substantiated by hydrologic modeling acceptable to the Permittee, or
 - The Erosion Potential (Ep) in the receiving water channel <1.

Minimum Control Measure - Public Information and Participation Program

- Key Objective: To measurably increase the knowledge of the target audience about the adverse impacts of storm water pollution and change the waste disposal and storm water pollution generation behavior of target audiences.
- Key Requirements
 - 12.5 Impressions per Resident Annually
 - Watershed-wide reporting hotline
 - Storm water pollution prevention advertising campaign
 - Distribution of outreach materials
 - Conduct storm water pollution prevention public service announcements
 - Provide schools within each school district in the watershed storm water pollution prevention materials

Storm Water Management Program: Minimum Control Measures (Implementation)

- "Implementation Scale"
 - County-wide
 - Watershed-based
 - Municipality
- Program Substitution