O&M (C.3.h) Inspections FY 2016/2017 Implementation

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February 1, 2017



Outline of Presentation

- Background on MRP
- MRP C.3.h Implementation
- MRP C.3.h Reporting
- Resources



Municipal Regional Permit (MRP)

 Regional permit regulating municipal stormwater systems

Prevention Program

- Applies to 76 cities, counties, and districts in:
 - Santa Clara, Alameda, Contra Costa, and San Mateo Counties, Fairfield and Suisun City (Solano County), Vallejo (Solano County)



 Provision C.3 covers requirements for new development and redevelopment projects,
and inspection and reporting requirements

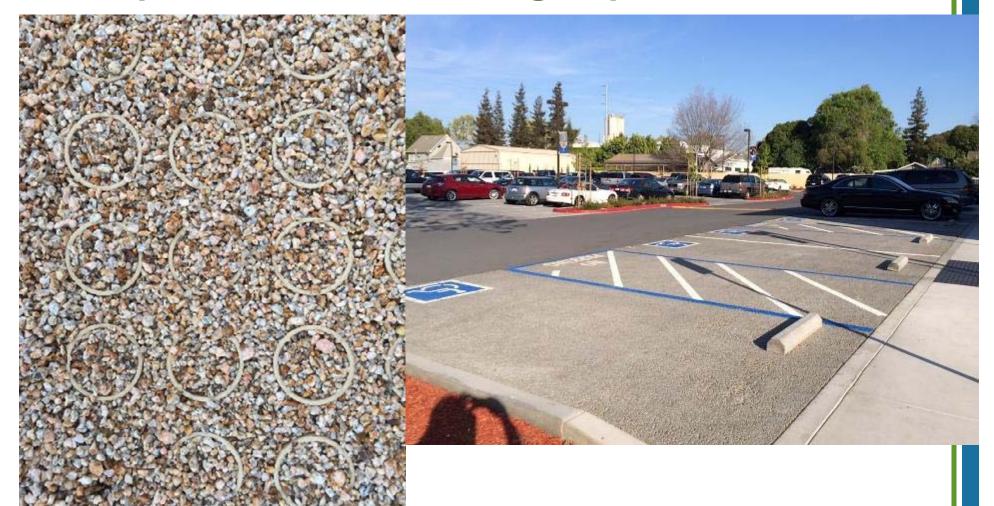
Permanent Facilities that Require O&M Inspections

- Provision C.3.h of the MRP requires agencies to conduct inspections to verify operation & maintenance (O&M) of:
 - Pervious pavement systems ≥ 3,000 sf
 - Stormwater treatment measures
 - Hydromodification management measures
- Applies to measures associated with a Regulated Development Project



Pervious Pavement

 Interlocking pavers, permeable asphalt, pervious concrete, or grid pavers



Stormwater Treatment Measures

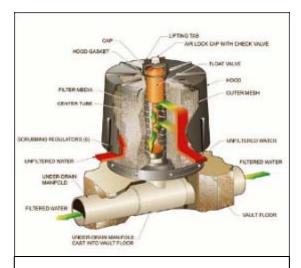
 Low impact development (LID) treatment systems (biotreatment, infiltration, rainwater harvesting systems)



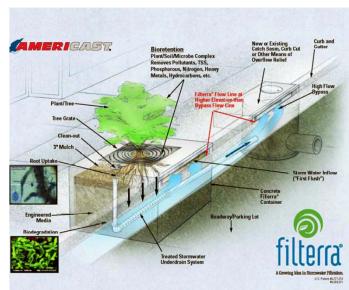


Stormwater Treatment Measures

 Vault-based systems (hydrodynamic separators, media filters, proprietary tree well filters)



Media Filter Cartridge





Hydrodynamic Separator



Hydromodification Management (HM) Facilities

 Basin, tank, pipe, or vault with specially designed outlet to slowly release water.







O&M Verification Program

- Require facility owners to conduct ongoing maintenance (e.g., maintenance agreement)
- O&M Verification Inspection Plan
 - Written Plan for installation and annual inspections
 - Applies to public (municipal) and private sites
 - Update with new requirements
- Conduct inspections



O&M Verification Program

- Enforcement Response Plan (ERP)
 - Guidance for inspectors to take consistent actions to bring sites into compliance
 - Certify completed by July 1, 2017 in upcoming Annual Report
- Track and Report on inspections
 - Database/Electronic Table
 - Annual Report
- Coordinate with County Mosquito and Vector Control District

O&M Verification Inspection Plan

- Update to include pervious pavement as of July 1, 2016
 - \geq 3,000 sq.ft.
 - Excludes private patios
 - Allows inspection of "representative no." of pervious driveways in subdivisions
- Updated to include procedure for 3rd party inspection of vault-based treatment systems



O&M Verification Inspection Plan

- Installation Inspections (beginning 7/1/16):
 - Initial inspection of stormwater controls required "at the completion of installation"
 - Replaces requirement to inspect within 45 days of installation



O&M Verification Inspection Plan

O&M Inspections (beginning 7/1/16):

- Inspect an average of 20% of Regulated Project sites per year (minimum 15%)
- Inspect all Regulated Projects at least once every five years
- 3rd party vault inspections must be completed annually
 - Collect inspection records



O&M Enforcement Response Plan (ERP)

- ERP by 7/1/17
- Guidance for inspectors to take consistent actions to bring sites into compliance
 - Identify enforcement tools
 - Roles and responsibilities of staff
 - Time period for implementing corrective actions
- Corrective actions must be implemented within 30 days of inspection
 - Actions can be temporary and more time allowed for permanent corrections (with explanation)

Tracking & Reporting Requirements

- O&M Verification Inspection Checklist
- Database/Electronic Table
 - Can be requested by Regional Board at any time
 - Track stormwater treatment systems and HM controls installed and inspected
 - Updated to include tracking pervious pavement as of July 1, 2016
 - Updated to include tracking 3rd party vault inspections



Tracking & Reporting Requirements

- Annual Report Inspection Summary
 - Inspection tracked by Regulated Project sites NOT treatment systems/HM controls/pervious pavement



FY 15/16 AR Inspections

	Regulated Projects FY 14-15	Regulated Projects FY 15-16	O&M inspections FY 15-16
San Mateo County	24	31	6
Atherton	4	4	1
Belmont	4	4	4
Brisbane	2	2	1
Burlingame	6	8	5
Colma	5	5	3
Daly City	9	9	2
East Palo Alto	10	12	2
Foster City	4	6	6
Half Moon Bay	3	3	1
Hillsborough	1	2	2
Menlo Park	62	63	13
Pacifica	1	1	1
Redwood City	47	60	12
San Bruno	6	6	2
San Mateo	18	21	4
South San Francisco	88	91	21
Woodside	0	0	0



One agency reported number of treatment systems

FY 15/16 Inspection Findings

- Inconsistent annual report submittal
- Media filter slide gate repaired
- Debris/litter
- Erosion or rills forming in bioretention areas near curb cuts require additional energy dissipaters (cobbles)
- Locating the appropriate contact responsible for treatment system maintenance is issue



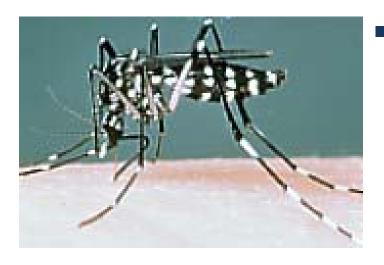
FY 15/16 Inspection Findings

- Drains in flow-through planters & bioretention areas lacked rock transitions that would help reduce the amount of mulch entering each drain
- Reduced irrigation due to drought conditions leads to inadequate, missing and invasive/nuisance vegetation



Vector Control District Coordination

- List of newly-installed facilities must be submitted each year:
 - To the County Mosquito and Vector Control District and Regional Water Board
 - Submitted before October 1



 Countywide Program can make the submittal based on info in your Annual Report



For More Information...

- SMCWPPP New Development Webpage: http://www.flowstobay.org/privatend
 - O&M Verification Inspection Checklist
 - Operation and Maintenance Verification Inspection Plan Template
 - Maintenance Agreement
 - Coming soon.... ERP guidance



Questions?

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