

Presentation of the Riverside County Copermittees

Jason Uhley

Chief of Watershed Protection

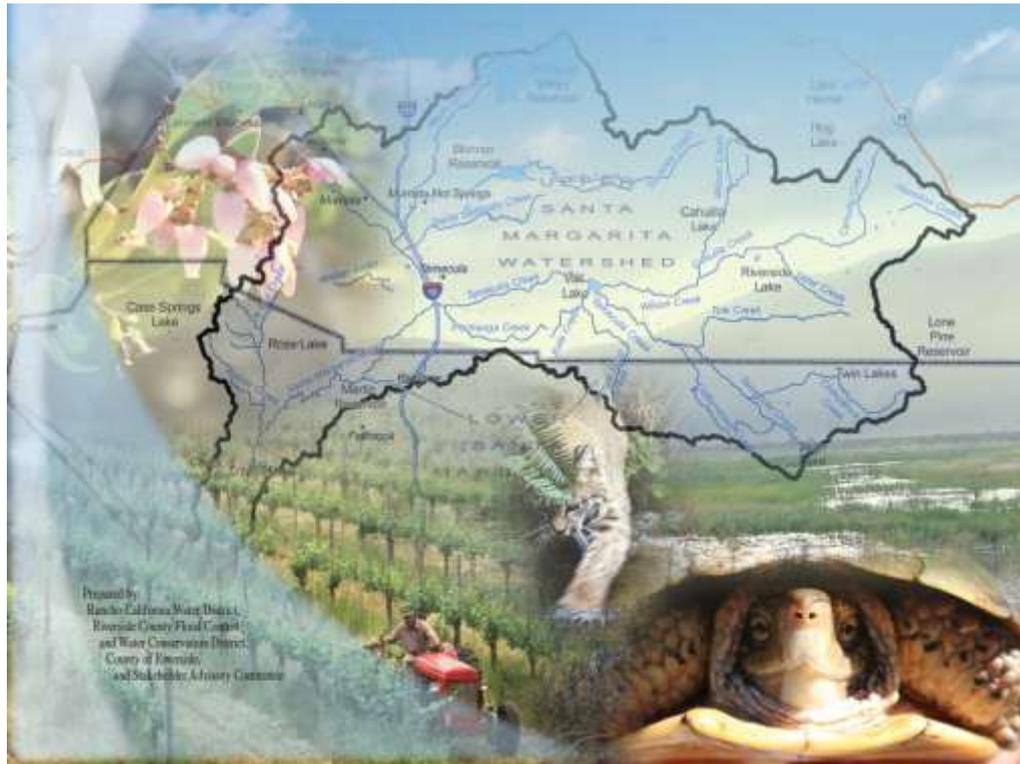
Riverside County Flood Control and Water Conservation
District

ROWD

- * Riverside County 2010 Permit Still Effective
- * ROWD Will Potentially Reopen All Permit Issues
- * Reform of the Tentative Order Will Reduce the Administrative Burden for the Board, Staff, Copermittees and other Stakeholders

Riverside County

A partner in protecting water resources



- * Habitat Conservation
- * Water Conservation
- * Low Impact Development
- * Flood Hazard Reduction

Staff's Goal: A time to be BOLD



- * Adaptive
- * Strategic
- * Synergistic

Vision not realized

Changes are substantive

- * 61 new pages of permit text due to edits
- * 258 pages of response to comments
- * 9 working days to review revisions

Direct Staff and Stakeholders to
meet and resolve issues.

How do Permit changes stack up?

- * New WQIP provisions are unnecessarily complex, cumbersome, and unattainable.

RWL Compliance Option Needs Work

(iii) Numeric goals for receiving waters that will protect the conditions of the receiving waters and attain water quality standards.



ISSUE – Allow WQIP to work

All program elements should be “adaptable”, including Provisions C, D and E

- * Use limited resources to achieve highest priority outcomes
- * Balance Santa Ana and San Diego MS4 Permit programs where appropriate to improve program performance

WQIP revisions still subject to stakeholder and Board review

Other WQIP Comments

- * Support related comments by Orange
- * Water Quality Consultation Panels should advise, but not consent

How do Permit changes stack up?

- * New WQIP provisions are unnecessarily complex, cumbersome, and unattainable.
- * Revised Development Provisions interfere with nascent “best practice” habits

Existing vs. New Development Requirements

- * Existing Permits
 - * Retain Design Capture Volume onsite;
 - * If infeasible; biotreat non-retained portion
 - * If infeasible; consider other BMPs or alternatives

Inconsistent with statewide practice

MS4 Permit	Volume Based Biofiltration Option
2010 Riverside Co. Permit	X
2009 Orange Co. Permit	X
2009 Ventura Permit	X
2013 Phase II MS4 Permit	X
2012 Los Angeles Co. Permit	X
2009 Bay Area Permit	X

Inconsistent with statewide practice

MS4 Permit	Volume Based Biofiltration Option	Pollutant Load based Biofiltration Option
2010 Riverside Co. Permit	X	
2009 Orange Co. Permit	X	
2009 Ventura Permit	X	
2013 Phase II MS4 Permit	X	
2012 Los Angeles Co. Permit	X	
2009 Bay Area Permit	X	
This Tentative Order		X

Existing vs. New Development Requirements

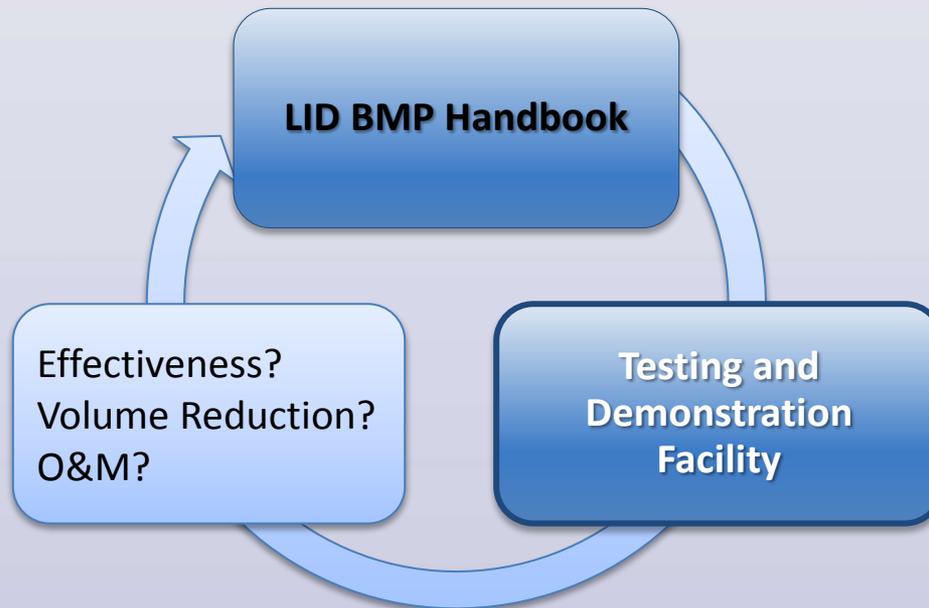
- * Existing Permits
 - * Retain Design Capture Volume onsite;
 - * If infeasible; biotreat non-retained portion
 - * If infeasible; consider other BMPs or alternatives
- * This Permit
 - * If you can't capture the water, capture the equivalent amount of pollutants

Functional equivalent to retention sounds like a simple standard - but

- * Pollutant is specific to:
 - * Development type
 - * Downstream receiving waters
- * Subject to acts of God
 - * Spills
 - * Illegal Activities
 - * Extreme storms and weather
- * Millions already invested in developing an effective development management plan IS JUST ROLLING OUT

New Development Program

- Continuous improvement program for 2012 LID BMP Handbook



Riverside County

Multi-million dollar investment in LID

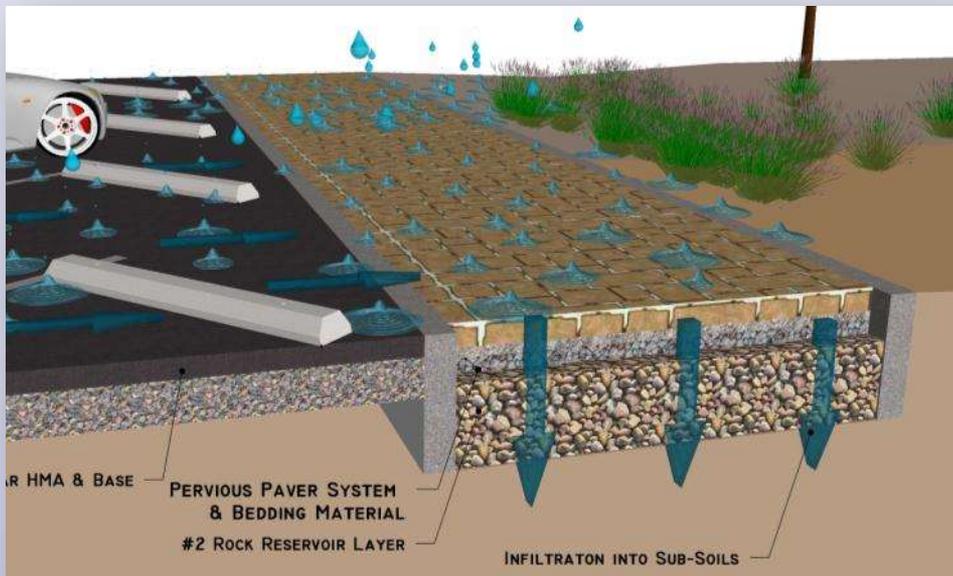


RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

Low Impact Development Testing and Demonstration Facility – Post-Project



Permeable Pavers



Testing / Observations:

- Design & Construction
- Durability
 - walkways vs. parking stalls
 - vs. drive aisles
- Maintenance

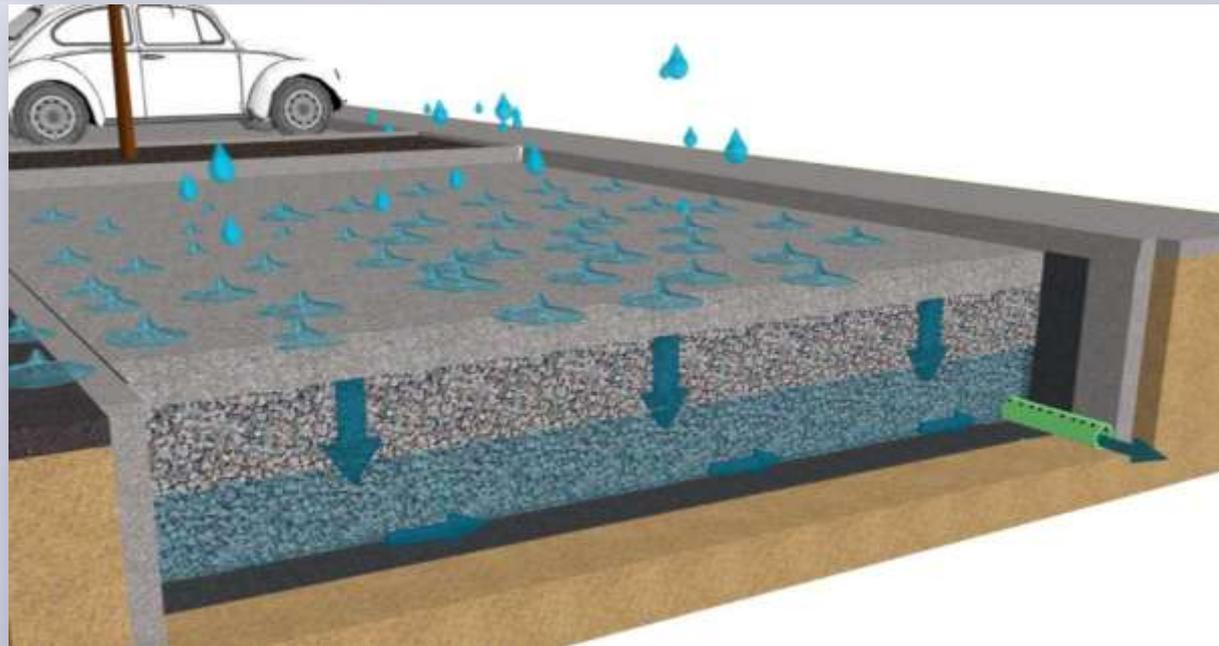


Permeable Concrete (Parking stalls)



Testing / Observations:

- Design & Construction
- Durability
- Maintenance
- Water Quality
- Volume / Hydrograph changes



Permeable
Concrete

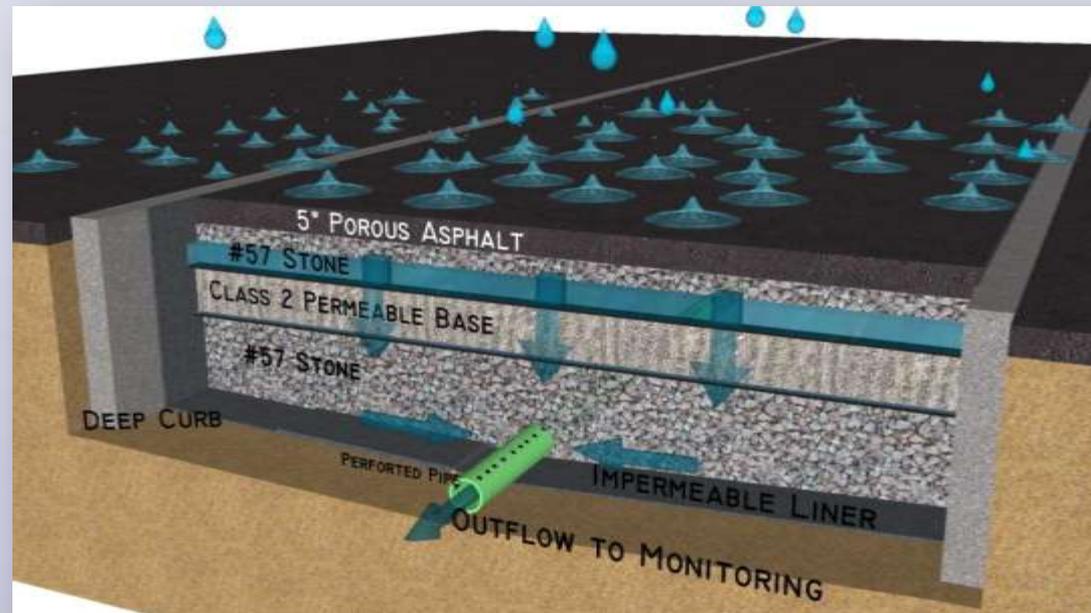
Conventional
Concrete



Permeable Asphalt (drive aisle)

Testing / Observations:

- Design & Construction
- Durability
- Maintenance
- Water Quality improvements
- Volume / Hydrograph changes

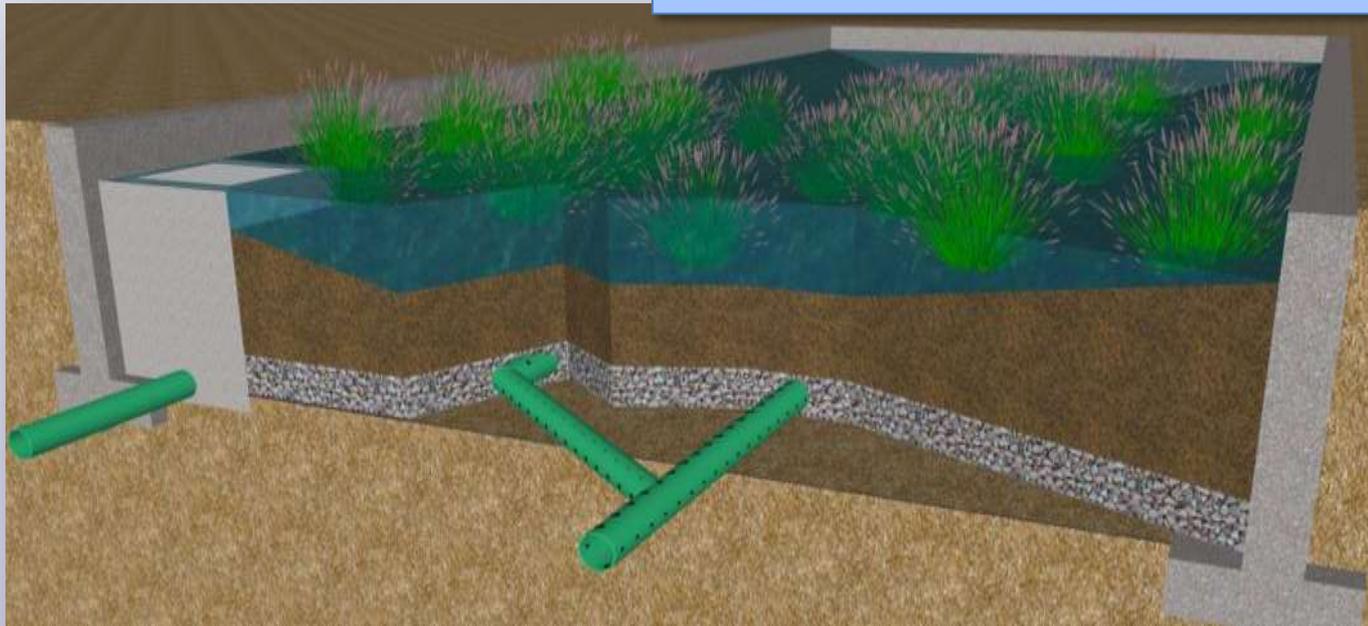


Biofiltration (in-ground)



Testing / Observations:

- Design & Construction
- Vegetation Durability
- Engineered Media performance
- Maintenance
- **Water Quality** (as Bioretention)
- **Water Quality** (as a swale)
- **Volume / Hydrograph changes**



Biofiltration (above-ground planter boxes)

Testing / Observations:

- Design & Construction considerations
- Vegetation Durability
- Engineered Media performance
- Maintenance considerations
- **Water Quality improvements**
(through soil media)
- **Volume / Hydrograph changes**



Infiltration Basin

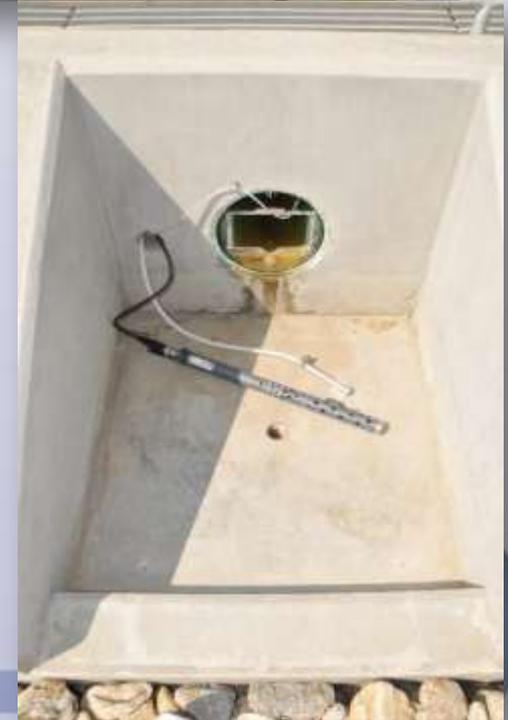
Testing / Observations:

- Design & Construction
- Infiltration Characteristics over time
- Maintenance



Monitoring Station

- 10 automated composite samplers
- Flow Meters





(1) Storm Water Pollutant Control BMP Requirements

Each Copermittee must require each Priority Development Project to implement onsite structural BMPs to control pollutants in storm water that may be discharged from a project as follows:

(a) Each Priority Development Project must be required to implement LID BMPs that are designed to retain (i.e. intercept, store, infiltrate, evaporate, and evapotranspire) onsite ~~100 percent of the pollutants contained in~~ the volume of storm water runoff produced from a 24-hour 85th percentile storm event (design capture volume):²⁵

(b) If a Copermittee determines that implementing BMPs to retain the full design capture volume onsite for a Priority Development Project is not technically feasible, then the Copermittee may allow the Priority Development Project to utilize flow-thru treatment control BMPs to treat the design capture volume to achieve the equivalent pollutant load removal described in Provision E.3.c.(1)(a).

(i) Biofiltration LID BMPs must be considered as a first option before other types of flow-thru treatment control BMPs may be considered. The total volume of the Biofiltration BMPs, including pore spaces and pre-filter detention volume, shall be sized to hold at least 0.75 times the portion of the design capture volume that is not otherwise retained onsite.

(ii) If Biofiltration is not feasible, a priority development project is allowed to utilize other flow-thru treatment control BMPs pursuant to Provision E.3.c.(1)(d) below.

PROMSION E JURISDICTIONAL RUNOFF MANAGEMENT PROGRAMS
E.3. Development Planning



David Garcia

Senior Civil Engineer
Riverside County Flood Control and Water Conservation
District



Three items of concern

1. Sediment Transport

Hydromod Management BMP Requirements E.3.c.(2)

2. Alternative Compliance Program to Onsite Structural BMP Implementation E.3.c.(3) page 96

3. Proposed- Flood Control Projects Exemption

Concern 1: Sediment Transport Hydromod Management BMP Requirements E.3.c.(2)

New Permit requirement:

Each Priority Development Project must avoid known critical sediment yield areas or implement measures that allow coarse sediment to be discharged to receiving waters, such that the sediment supply is unaffected by the project.

Recommendation:

E.3.c.(2)(b)

- (b) Each Priority Development Project must avoid impacts to receiving waters from known critical sediment yield areas or implement measures that allow coarse sediment to be discharged to receiving waters, such that the sediment supplyreceiving water is unaffected by the project to the MEP.

Concern 2: Alternative Compliance Program to Onsite Structural BMP Implementation E.3.c.(3)

(3) Alternative Compliance Program to Onsite Structural BMP Implementation Performance Requirements

(4) Applicability Tentative Order No. R9-2013-0001 Page 9

At the discretion of each Copern allowed to ~~allow an alternative~~ alternative compliance program BMP performance requirements provided that the Water Quality Watershed Management Area alternative compliance program only if the Priority Development agreement with the Copernite the voluntary agreement, relief be authorized by the Copernite

(a) Watershed Management Area

The Priority Development Projects to, or implement a plan in the Watershed Management Quality Improvement Plan, following conditions:

- (i) The Copernite must alternative compliance overall water quality be from fully complying with E.3.c.(1) and E.3.c.(2)
- (ii) If the Priority Development partially fund a candidate described in Provision E.3.c.(3)
- (iii) If the Priority Development partially fund a candidate that the funds to be obtained are sufficient implementing structural requirements described
- (iv) If the Priority Development candidate project, then control and/or hydrology project are sufficient to implementing structural performance requirements E.3.c.(2)

PROVISION E. JURISDICTIONAL E.3. DEVELOP

- (v) The voluntary agreement candidate project must in situation and maintenance
- (vi) Design of the candidate a appropriately qualified re architect, landscape or where applicable, and so to the candidate project
- (vii) The alternative compliance same hydrology and as if preferably within the same
- (viii) The candidate project no later than 3 years after the first Priority Development the construction of the same is authorized by the
- (ix) If the candidate project is constructed, the mitigation for pollutant to from the Priority Development
- (x) Receiving waters must be water runoff from the PDP compliance options and
- (xi) The pollutants in stormwater project must be treated to options prior to being dis
- (xii) Unless otherwise allowed compliance options must of pollutant removal as an Development Project that pollutant control (BMP per E.3.c.(1) comply
- (xiii) Unless otherwise allowed compliance options must of protection basin potential receiving water as an Development Project that management BMP per E.3.c.(1) comply
- (xiv) The alternative compliance Development Project to in Provisions E.3.c.(1) and 1

PROVISION E. JURISDICTIONAL RUNOFF MANAGEMENT PROGRAMS E.3. Development Planning

handling for operation and maintenance

(b) Alternative Compliance Project Options (b) Project Applicant Proposed Alternative Compliance Projects

The Copernite may allow a Project Development Project and/or to

- (i) Site Design credit and fee (2) from the Stormwater Site category. In an outfalls of the receiving water, the adversely impacted by storm water discharge from the site.
- (ii) Watershed-Based Riparian Development The Copernite may allow Priority Development areas in total project area (not part of a larger common plan of the area) to comply with the same structural requirements of Provisions E.3.c.(1) as Development Project must comply with
- (iii) Onsite LID Installation In The Copernite may also onsite LID installation into storm water pollution control Provisions E.3.c.(1). Onsite must be used and design

- (a) Remove pollutants to (b) Have an appropriate access and channeling
- (c) Facilities at least 1.5 m reliably retained onsite
- (d) Built-up up to the design retained onsite, AMD-1 system volume not exceed normal BMPs or other necessary, mitigate for design capture volume alternative compliance credit system options
- (e) LID-1 Certified Reviewing The Copernite may allow Projects to comply with its performance requirements designed and constructed New Construction and Maintenance Programs. The Priority Development

PROVISION E. JURISDICTIONAL R9 E.3. DEVELOP

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PROVISION E. JURISDICTIONAL RUNOFF MANAGEMENT PROGRAMS E.3. Development Planning

PROVISION E. JURISDICTIONAL RUNOFF MANAGEMENT PROGRAMS E.3. Development Planning

(c) Alternative Compliance In-Lieu Fee Structure Option

(b) Alternative Compliance Project Options (b) Project Applicant Proposed Alternative Compliance Projects

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Alternative Compliance Program

Goal: Provide opportunity for cost effective multi-purpose, multi-function regional projects

- * Leverage third party resources
- * Facilitates watershed scale solutions

Complications- prescription potentially negates benefit

Alternative Compliance Issues

- No alternative compliance option for Critical Sediment Yield areas
- Temporary mitigation required

Concern 2: Recommendations

E.3.c.(2)(c) and (d)

(c) A Priority Development Project may be allowed to utilize alternative compliance under Provision E.3.c.(3) in lieu of complying with the performance requirements of Provision E.3.c.(2)(a)-(b). The Priority Development Project must mitigate for the post-project runoff conditions not fully managed onsite if Provision E.3.(c)(3) is utilized.

(d) Exemptions

Each Copermittee has the discretion to exempt a Priority Development Project from the hydromodification management BMP performance requirements of Provisions E.3.c.(2)(a)-(b) where the project discharges storm water runoff to:

Remove E.3.c.(3)(a) viii and ix

- ~~(viii) If the candidate project is constructed after the Priority Development Project is constructed, the Copermittee must require temporal mitigation for pollutant loads and altered flows that are discharged from the Priority Development Project; and~~
- ~~(ix) Receiving waters must not be utilized to convey untreated storm water runoff from the Priority Development Project to the candidate project;~~

Concern 3: Need Flood Control Project Exemption

Our mission: Protect our watersheds

Flood control projects are watershed protection projects, they consist of:

- Flood risk reduction
- Protection from catastrophic environmental disasters.
- Erosion mitigation
- Stream restoration
- Slope stability
- Water reclamation

Concern 3: Need Flood Control Project Exemption

Response to comments (E3B-3) Pg. 166

The San Diego Water Board further disagrees that there should be exemptions for emergency projects or flood control projects....The San Diego Water Board believes that **it may be suitable to relax the structural BMP standards for, or exempt flood control projects, but not before projects are evaluated on a case-by-case basis.**

* We do not see the flexibility provided for in the permit

Concern 3: Recommendations

Proposed E.3.b.(3)(c)

~~(b)~~(c) Flood control and watershed management projects that have minimized the need for impervious surfaces to the MEP, consistent with requirements to protect public health and safety.

Concern 3: Recommendations cont..

Maintenance is critical

Add Language from LA Permit to the Attachment C: Definition of “Redevelopment:

Redevelopment - The creation and/or replacement of impervious surface on an already developed site. Examples include the expansion of a building footprint, road widening, the addition to or replacement of a structure, and creation or addition of impervious surfaces. Replacement of impervious surfaces includes any activity that is not part of a routine maintenance activity where impervious material(s) are removed, exposing underlying soil during construction. Redevelopment does not include trenching and resurfacing associated with utility work; resurfacing existing roadways; new sidewalk construction, pedestrian ramps, or bike lane on existing roads; ~~and~~ routine replacement of damaged pavement, such as pothole repair; and routine maintenance to maintain original line and grade, hydraulic capacity or original purpose of facility; and emergency construction activities required to immediately protect public health and safety.



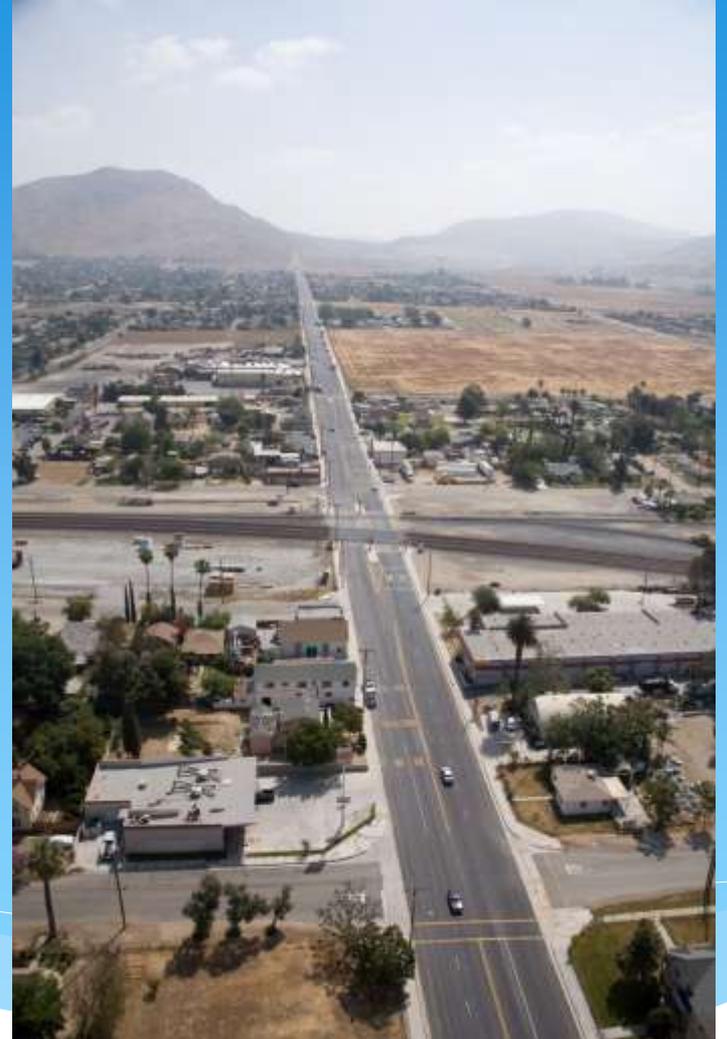
Patricia Romo

Assistant Director
Riverside County Transportation and
Land Management Agency



Transportation Projects

- Linear
- Publicly funded
- Limited public right of way





Transportation Projects

- **Add “Redevelopment” Projects to Provision E.3.(b)(3)(b) – PDP**
- **Exemptions - Provide for USEPA Green Streets Guidance**
 - * Redevelopment Projects
 - Constraints
 - Limited ROW
 - Linear in Nature
 - Utilities
 - Strict Timelines on State and Federal Funding
 - Improvements required for Public Safety



Transportation Projects

- * **Consistency with Provisions of Riverside County MS4 Permit (R9-2010-0016) and other So. Cal. Existing MS4 Permits**

- Riv. Co. WQMP/TPG submitted July 2, 2012
- Provides for certainty in 2015

- * **Benefits of TPG**

- Would incorporate LID BMPs to the MEP
- Allows time sensitive projects to proceed without delay
- Ensures projects do not get “shelved” due to costly individual projects
- Eliminates need to condemn property for the purpose of treating runoff from site specific project
- Meets Public expectation – Safe Roads
- Reduces costly litigation from delaying needed road enhancements

Final Request

- * Direct Staff and stakeholders to meet to resolve remaining permit issues and develop a broadly supported order.
- * Consider specific redline provisions provided.
- * Build Permit that is not only adaptive, strategic and synergistic; but also reasonable, cost effective and science-based.

(3) Priority Development Project Exemptions

Each Copermitee has the discretion to exempt the following projects from being defined as Priority Development Projects:

(a) New or retrofit paved sidewalks, bicycle lanes, or trails that meet the following criteria:

- (i) Designed and constructed to direct storm water runoff to adjacent vegetated areas, or other non-erodible permeable areas; OR
- (ii) Designed and constructed to be hydraulically disconnected from paved streets or roads; OR
- (iii) Designed and constructed with permeable pavements or surfaces in accordance with USEPA Green Streets guidance.²³

~~(b) New development, retrofitting or redevelopment~~ of existing paved alleys, streets or roads that are designed and constructed in accordance with the USEPA Green Streets guidance.²⁴

~~(c) Flood control and watershed management projects that have minimized the need for impervious surfaces to the MEP, consistent with requirements to protect public health and safety.~~

c. PRIORITY DEVELOPMENT PROJECT STRUCTURAL BMP PERFORMANCE REQUIREMENTS

In addition to the BMP requirements listed for all development projects under Provision E.3.a, Priority Development Projects must also implement structural BMPs that conform to performance requirements described below.

(1) Storm Water Pollutant Control BMP Requirements

Each Copermitee must require each Priority Development Project to implement onsite structural BMPs to control pollutants in storm water that may be discharged from a project as follows:

- (a) Each Priority Development Project must be required to implement LID BMPs that are designed to retain (i.e. intercept, store, infiltrate, evaporate, and evapotranspire) onsite ~~400 percent of the pollutants contained in~~ the volume of storm water runoff produced from a 24-hour 85th percentile storm event (design capture volume);²⁵

²³ See "Managing Wet Weather with Green Infrastructure – Municipal Handbook: Green Streets" (USEPA, 2008).

²⁴ Ibid.

²⁵ This volume is not a single volume to be applied to all areas covered by this Order. The size of the 85th percentile storm event is different for various parts of the San Diego Region. The Copermitees are

~~(b)~~ If a Copermittee determines that implementing BMPs to retain the full design capture volume onsite for a Priority Development Project is not technically feasible, then the Copermittee may allow the Priority Development Project to utilize flow-thru treatment control BMPs to treat the design capture volume to achieve the equivalent pollutant load removal described in Provision E.3.c.(1)(a).

~~(i)~~ Biofiltration LID BMPs must be considered as a first option before other types of flow-thru treatment control BMPs may be considered. The total volume of the Biofiltration BMPs, including pore spaces and pre-filter detention volume, shall be sized to hold at least 0.75 times the portion of the design capture volume that is not otherwise retained onsite.

~~(i)(ii)~~ If Biofiltration is not feasible, a priority development project is allowed to utilize other flow-thru treatment control BMPs pursuant to Provision E.3.c.(1)(d) below.

~~(c)~~ A Priority Development Project may be allowed to utilize alternative compliance under Provision E.3.c.(3) in lieu of complying with the storm water pollutant control BMP performance requirements of Provision E.3.c.(1)(a). The Priority Development Project alternative compliance project must mitigate for the portion of the pollutant load in the design capture volume not retained onsite if Provision E.3.(c)(3) is utilized.

~~(c)(d)~~ If a Priority Development project is allowed to utilize alternative compliance, flow thru treatment control BMPs must be implemented to treat the portion of the design capture volume that is not retained onsite. Flow-thru treatment control BMPs must be sized and designed to:

- (i) Remove pollutants from storm water to the MEP;
- (ii) Filter or treat either: 1) the maximum flow rate of runoff produced from a rainfall intensity of 0.2 inch of rainfall per hour, for each hour of a storm event, or 2) the maximum flow rate of runoff produced by the 85th percentile hourly rainfall intensity (for each hour of a storm event), as determined from the local historical rainfall record, multiplied by a factor of two;
- (iii) Be ranked with high or medium pollutant removal efficiency for the Priority Development Project's most significant pollutants of concern. Flow-thru treatment control BMPs with a low removal efficiency ranking must only be approved by a Copermittee when a feasibility

to areas where insufficient data exists in order to determine the volume of the local 85th percentile storm event in such areas. Where the Copermittees will use isopluvial maps to determine the 85th percentile storm event in areas lacking rain data, the Copermittees must describe their method for using isopluvial maps in its BMP Design Manuals.

analysis has been conducted which exhibits that implementation of flow-thru treatment control BMPs with high or medium removal efficiency rankings are infeasible for a Priority Development Project or portion of a Priority Development Project.

(2) Hydromodification Management BMP Requirements

Each Copermitttee must require each Priority Development Project to implement onsite BMPs to manage hydromodification that may be caused by storm water runoff discharged from a project as follows:

- (a) Post-project runoff conditions (flow rates and durations) must not exceed pre-development runoff conditions by more than 10 percent (for the range of flows that result in increased potential for erosion, or degraded instream habitat downstream of Priority Development Projects).
 - (i) In evaluating the range of flows that results in increased potential for erosion of natural (non-hardened) channels, the lower boundary must correspond with the critical channel flow that produces the critical shear stress that initiates channel bed movement or that erodes the toe of channel banks.
 - (ii) The Copermitttees may use monitoring results collected pursuant to Provision [D.1.a.\(2\)](#) to re-define the range of flows resulting in increased potential for erosion, or degraded instream habitat conditions, as warranted by the data.
- (b) Each Priority Development Project must avoid [impacts to receiving waters from](#) known critical sediment yield areas or implement measures that allow coarse sediment to be discharged to receiving waters, such that the [sediment supply/receiving water](#) is unaffected by the project [to the MEP](#).
- (c) A Priority Development Project may be allowed to utilize alternative compliance under Provision [E.3.c.\(3\)](#) in lieu of complying with the performance requirements of Provision [E.3.c.\(2\)\(a\)-\(b\)](#). The Priority Development Project must mitigate for the post-project runoff conditions not fully managed onsite if Provision [E.3.\(c\)\(3\)](#) is utilized.

(d) Exemptions

Each Copermitttee has the discretion to exempt a Priority Development Project from the hydromodification management BMP performance requirements of Provisions [E.3.c.\(2\)\(a\)-\(b\)](#) where the project discharges storm water runoff to:

- (i) Existing underground storm drains discharging directly to water storage reservoirs, lakes, enclosed embayments, or the Pacific

- (v) The voluntary agreement to fund, partially fund, or implement a candidate project must include reliable sources of funding for operation and maintenance of the candidate project;
- (vi) Design of the candidate project must be conducted under an appropriately qualified engineer, geologist, architect, landscape architect, or other professional, licenses where applicable, and competent and proficient in the fields pertinent to the candidate project design; and
- (vii) The candidate project must be constructed as soon as possible, but no later than 4 years after the certificate of occupancy is granted for the first Priority Development Project that contributed funds toward the construction of the candidate project, unless a longer period of time is authorized by the San Diego Water Board Executive Officer; and
- ~~(viii) If the candidate project is constructed after the Priority Development Project is constructed, the Copermitttee must require temporal mitigation for pollutant loads and altered flows that are discharged from the Priority Development Project; and~~
- ~~(ix) Receiving waters must not be utilized to convey untreated storm water runoff from the Priority Development Project to the candidate project;~~

(b) Project Applicant Proposed Alternative Compliance Projects

The Copermitttee may allow a Priority Development Project applicant to propose and fund, contribute funds to, or implement an alternative compliance project not identified by the Watershed Management Area Analysis included in the Water Quality Improvement Plan pursuant to Provisions B.3.b.(4). This option is allowed provided the Copermitttee determines that implementation of the alternative compliance project will have a greater overall water quality benefit for the Watershed Management Area than fully complying with the performance requirements of Provisions E.3.c.(1) and E.3.c.(2) onsite, and is subject to the requirements described in Provisions E.3.c.(3)(a)(ii)-~~(ixvii)~~.

(c) Alternative Compliance In-Lieu Fee Structure

If a Copermitttee chooses to allow a Priority Development Project applicant to fund, or partially fund a candidate project or an alternative compliance project, then the Copermitttee must develop and implement an in-lieu fee structure. This may be developed individually or with other Copermitttees and/or entities, as a means for designing, developing, constructing, operating and maintaining offsite alternative compliance projects. The in-lieu fee must be transferred to the Copermitttee (for public projects) or an escrow account (for private projects) prior to the construction of the

Receiving Water Limitations - Waste discharge requirements issued by the San Diego Water Board typically include both: (1) "Effluent Limitations" (or "Discharge Limitations") that specify the technology-based or water-quality-based effluent limitations; and (2) "Receiving Water Limitations" that specify the water quality objectives in the Basin Plan as well as any other limitations necessary to attain those objectives. In summary, the "Receiving Water Limitations" provision is the provision used to implement the requirements of CWA section 402(p)(3)(B).

Redevelopment - The creation and/or replacement of impervious surface on an already developed site. Examples include the expansion of a building footprint, road widening, the addition to or replacement of a structure, and creation or addition of impervious surfaces. Replacement of impervious surfaces includes any activity that is not part of a routine maintenance activity where impervious material(s) are removed, exposing underlying soil during construction. Redevelopment does not include trenching and resurfacing associated with utility work; resurfacing existing roadways; new sidewalk construction, pedestrian ramps, or bike lane on existing roads; ~~and~~ routine replacement of damaged pavement, such as pothole repair; and routine maintenance to maintain original line and grade, hydraulic capacity or original purpose of facility; and emergency construction activities required to immediately protect public health and safety.

Regional Clearinghouse – A central location for the collection and distribution of information developed and maintained by the Copermitttees including, but not limited to, plans, reports, manuals, data, contact information, and/or links to such documents and information.

Rehabilitation - Remedial measures or activities for the purpose of improving or restoring the beneficial uses of streams, channels or river systems. Techniques may vary from in-stream restoration techniques to off-linestormwater management practices installed in the system corridor or upland areas, or a combination of in-stream and out of stream techniques. Rehabilitation techniques may include, but are not limited to the following: riparian zone restoration, constructed wetlands, channel modifications that improve habitat and stability, and daylighting of drainage systems.

Reporting Period – The period of information that is reported in the Water Quality Improvement Plan Annual Report. The reporting period consists of two components: 1) July 1 to June 30, consistent with the fiscal year, for the implementation of the jurisdictional runoff management programs, and 2) October 1 to September 30, consistent with the monitoring year for the monitoring and assessment programs. Together, these two time periods constitute the reporting year for the Water Quality Improvement Plan Annual Report due January 31 following the end of the monitoring year.

Retain –Keep or hold in a particular place, condition, or position without discharge to surface waters.

Retrofitting – Storm water management practice put into place after development has occurred in watersheds where the practices previously did not exist or are ineffective. Retrofitting of developed areas is intended to improve water quality, protect downstream channels, reduce flooding, or meet other specific objectives. Retrofitting developed areas may include, but is not limited to replacing roofs with green roofs, disconnecting downspouts or impervious surfaces to drain to pervious surfaces, replacing impervious surfaces with pervious surfaces, installing rain barrels, installing rain gardens, and trash area enclosures.

Runoff - All flows in a storm water conveyance system that consists of the following