

# SB 985 Implementation and LID Storm Water Resource Plans

Presented by: Beth Payne



Division of Water Quality



EDMUND G. BROWN JR.  
GOVERNOR



MATTHEW RODRIGUEZ  
SECRETARY FOR  
ENVIRONMENTAL PROTECTION

State Water Resources Control Board



# Overview

- Background
- Senate Bill 985 – changes to the Water Code
- State Water Board Guidelines for Storm Water Resource Plans
- Timeline
- Examples of Plans
- Project funding



# Background

- Storm water and runoff treated as a pollutant
- January 2014 - California Water Action Plan
- 2014 - Storm Water Strategic Initiative



# Senate Bill 985

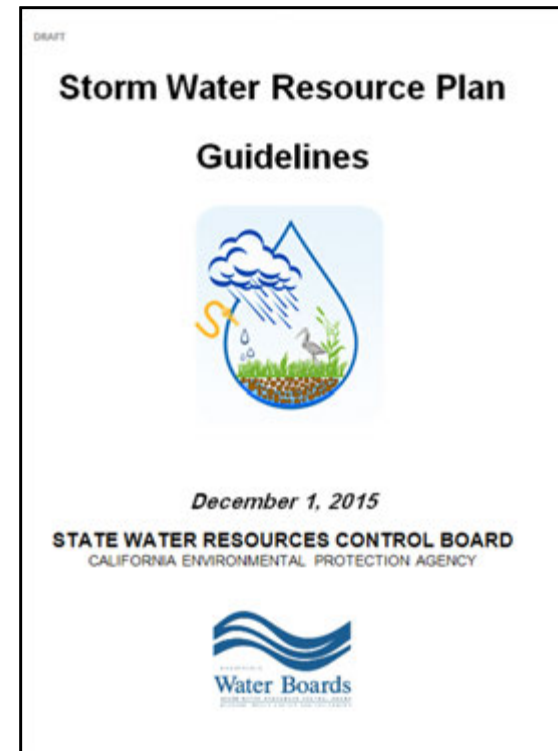
- Storm water and dry weather runoff as a resource
- Emphasizes multi-benefit storm water projects
- Emphasizes use of publicly owned lands
- Requires a Storm Water Resource Plan for funding
- State Water Board will provide guidance for Plan preparation

# Storm Water Resource Plan Guidelines (Guidelines)

Required to identify:

- Entities to consult in Plan preparation
- Methods to identify and prioritize projects in Plans
- Scale of watershed Plan
- Other guidance as needed

(WC § 10565)



# Guidelines Timeline

| <b>Project Milestone</b>  | <b>Date</b>  |
|---|--|
| <b>Public release of first draft documents</b>                                    | August 28  |
| <b>Stakeholder Workshops</b>  | September 29 – October 1                           |
| <b>Board Workshop</b>   | October 7  |
| <b>End of Public Comment Period</b>   | October 13   |
| <b>Public release of revised final draft documents with responses to comments</b> | 10 days prior to Board Consideration (~December 4) |
| <b>Board Consideration of PLAN Guidelines</b>                                     | December 15  |
| <b>Board Consideration of Prop 1 FUNDING Guidelines</b>                           | Same Board date or soon after                      |



# Guidelines Content

Contains guidance on:

1. Watershed Description
2. Coordination and Collaboration During Plan Development
3. Quantitative Methods for Prioritization
4. Information and Data Management
5. Benefit Prioritization
6. Plan Implementation
7. Education and Outreach

Appendix A: Checklist and Self-Certification



# Projects (within Plans)

Public lands include:

- School sites
- Easements
- Government land (office buildings and complexes)
- Public rights-of-way
- Parks
- Public open space
- Community gardens
- Farm and agricultural preserves



# Storm Water Project Types

- Infiltration and filtration
- Runoff storage
- Low impact landscaping
- Individual project versus project type

Example Project Type:  
Distributed  
Green Street BMPs

Modeled biofilters and  
bioretention with  
appropriate sizing criteria

Modeling based on  
subwatersheds and land  
use types within Plan

Map of potential and  
prioritized sites/areas for  
project implementation

# Project Benefits

**TABLE 4. STORM WATER MANAGEMENT BENEFITS**

| <b>Benefit Category</b>   | <b>Main Benefit</b>                             | <b>Additional Benefit</b>                          |
|---|---|--|
| <b>Water Quality</b><br><i>while contributing to compliance with applicable permit and/or TMDL requirements</i> | Increased filtration and/or treatment of runoff | Nonpoint source pollution control                  |
|   |   | Reestablished natural water drainage and treatment |
| <b>Water Supply</b><br><i>through groundwater management and/or runoff capture and use</i>                      | Water supply reliability                        | Water conservation                                 |
|   | Conjunctive use                                 |  |

# Project Benefits

**TABLE 4. STORM WATER MANAGEMENT BENEFITS**

| <b>Benefit Category</b> | <b>Main Benefit</b>   | <b>Additional Benefit</b>   |
|-------------------------|---|---|
| <b>Flood Management</b> | Decreased flood risk by reducing runoff rate and/or volume  | Reduced sanitary sewer overflows  |
| <b>Environmental</b>    | Environmental and habitat protection and improvement, including; wetland enhancement/creation; riparian enhancement; and/or instream flow improvement | Reduced energy use, greenhouse gas emissions, or provides a carbon sink |
|                         |   | Reestablishment of the natural hydrograph                               |
|                         | Increased urban green space   | Water temperature improvements  |
| <b>Community</b>        | Employment opportunities provided   | Community involvement   |
|                         | Public education  | Enhance and/or create recreational and public use areas                 |

# LA Watershed Management Programs

CA.GOV CALIFORNIA ENVIRONMENT PROTECTION AGENCY  
LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD

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RESOURCES  
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## Storm Water Home

News  
**Municipal Permits >>**  
Industrial General Permits  
Construction General Permits  
Caltrans Permits (Statewide)  
Report a Storm Water Violation  
Staff Contacts  
Audits, Reports, And Documents  
Links



The Storm Water Program uses an integrated approach to regulate storm water discharges from industrial facilities, construction sites, and municipal systems. The Section includes two units that issue and enforce Storm Water NPDES permits. These units are Stormwater Permitting and Stormwater Compliance and Enforcement.

[www.swrcb.ca.gov/losangeles/water\\_issues/programs/stormwater](http://www.swrcb.ca.gov/losangeles/water_issues/programs/stormwater)





## Storm Water - Municipal Permits

- > CAL/EPA
- > State & Regional Water Boards' Map
- > Laws/Regulations
- > Plans/Policies
- > Programs
- > Decisions Pending and Opportunities for Public Participation



### RESOURCES

- > Paperless Office
- > Email Subscriptions
- > Data & Databases
- > Business Help
- > Public Records Center
- > Grants & Loans
- > Fees
- > Language Access Complaint
  - > en Español
- > File an Environmental Complaint
- > Employment
- > Useful Links
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### News

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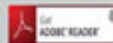
[<< Storm Water Home >>](#)

### Disclaimer and Notes

The NPDES Permit pdf documents might be formatted differently than the hard copies. We are in the process of reformatting the permit pdf files to match the format on the hard copies.

Most forms in Adobe Acrobat may be filled out electronically.

If you do not have adobe acrobat reader, it can be downloaded for free. [Click here for link to the Adobe site.](#)



### Information on Funding Sources for Stormwater Projects

- > [2015 California Financing Coordinating Committee Funding Fairs](#)
- > [Presentation Proposition 1 Water Quality, Supply, and Infrastructure Improvement Act Of 2014](#)
- > [East Coast/West Coast Knowledge Exchange, Environmental Finance Center/UMD, February 11, 2015 Workshop](#)
  - > [University of Maryland EFC Presentation\(February 11, 2015\)](#)
  - > [EFC Local Government Stormwater Financing Manual \(January 2014\)](#)
- > [Potential Funding Sources for MS4 Projects \(September 2013\)](#)
- > [September 24, 2013 State Board Presentation about Available Funding for Stormwater Projects](#)
- > [2015 TIGER Grant Program](#)
  - > The U.S. Department of Transportation recently announced that the Transportation Investment Generating Economic Recovery (TIGER Discretionary Grant program) has up to \$500 million available for capital projects related to highways, bridges, public transportation, rail, ports, and intermodal projects. A primary selection criterion specifically mentions addressing stormwater through natural means, avoiding impacts to water quality, and providing benefits like groundwater recharge, brownfield redevelopment, and stormwater mitigation including green infrastructure. Eligible applicants are State, local, and tribal governments, transit agencies, port authorities, metropolitan planning organizations, other political subdivisions of State or local governments, and multi-State or multi-jurisdictional groups applying through a lead applicant. TIGER applications are due June 5, 2015. Additional details: [www.dot.gov/tiger](http://www.dot.gov/tiger)

### City of Long Beach

#### Watershed Management Programs

- > [NEW Long Beach Nearshore](#)
- > [Los Cerritos Channel Watershed](#)
- > [Lower Los Angeles River Watershed](#)
- > [Lower San Gabriel River](#)

#### Final Waste Discharge Requirements for Municipal Separate Storm Sewer System (MS4) Discharges within the City of Long Beach MS4 (posted March 11, 2014)

- > [Final Order No. R4-2014-0024](#)
- > [List Of Attachments](#)
  - > [Attachment A – Definitions](#)
  - > [Attachment B – Watershed Management Area Maps](#)
  - > [Attachment C – MS4 Maps by Watershed Management Area](#)
  - > [Attachment D – Standard Provisions](#)
  - > [Attachment F – Monitoring and Reporting Program](#)

## County of Los Angeles

### **NEW LOS ANGELES COUNTY MS4 PERMIT (ORDER NO. R4-2012-0175) AS AMENDED BY THE STATE WATER BOARD ON JUNE 16, 2015 BY ORDER WQ 2015-0075 (POSTED JULY 1, 2015)**

- [Transmittal Letter for Amended LA County MS4 Permit](#)
- [Final LA County MS4 Permit \(Order No. R4-2012-0175\) as amended by State Water Board Order WQ 2015-0075](#)
  - [Attachment F – Fact Sheet as amended by State Water Board Order WQ 2015-0075](#)
- [Final State Water Board Order WQ 2015-0075](#)

### **TIME SCHEDULE ORDER NO. R4-2015-0108 REQUIRING THE CITY OF LOS ANGELES, THE COUNTY OF LOS ANGELES, THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, THE CITY OF BEVERLY HILLS, THE CITY OF CULVER CITY, THE CITY OF INGLEWOOD, AND THE CITY OF WEST HOLLYWOOD TO COMPLY WITH REQUIREMENTS PRESCRIBED IN ORDER NO. R4-2012-0175 (NPDES PERMIT NO. CAS004001)**

- [Transmittal Letter for TSO R4-2015-0108 \(posted May 21, 2015\)](#)
- [Final Time Schedule Order R4-2015-0108 \(posted May 21, 2015\)](#)

### **TIME SCHEDULE ORDER NO. R4-2014-0142 REQUIRING THE COUNTY OF LOS ANGELES, THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND THE CITY OF LOS ANGELES TO COMPLY WITH REQUIREMENTS PERTAINING TO DISCHARGES OF BACTERIA DURING DRY WEATHER TO THE BACK BASINS OF MARINA DEL REY HARBOR AND MARINA BEACH PRESCRIBED IN ORDER NO. R4-2012-0175 (NPDES PERMIT NO. CAS004001)**

- [Transmittal Letter for TSO R4-2014-0142 \(posted July 15, 2014\)](#)
- [Final Time Schedule Order R4-2014-0142 \(posted July 15, 2014\)](#)

### **TIME SCHEDULE ORDER NO. R4-2014-0023 REQUIRING THE CITY OF LOS ANGELES (INNER CABRILLO BEACH, LOS ANGELES HARBOR) TO COMPLY WITH REQUIREMENTS PRESCRIBED IN ORDER NO. R4-2012-0175 (NPDES PERMIT NO. CAS004001)**

- [Transmittal Letter for TSO R4-2014-0023](#)
- [Final Time Schedule Order R4-2014-0023](#)

### **LARWQCB Response to Petitions A-2236(a) through (kk)**

[Administrative Record for Order No. R4-2012-0175](#) (Note: Some of the files are large. Please be patient when opening the files; it may take a moment.)

### **Implementation of the Los Angeles County Areawide MS4 Permit**

- [Watershed Management Programs](#)
  - [NRDC, Heal the Bay, and LA Waterkeeper Comments on Revised WMPs](#)
- [Low Impact Development Ordinances and Green Streets Policies](#)
- [Implementation Information Session #1 \(February 19, 2013\) Watershed Management Programs/Enhanced Watershed Management Programs](#)
- [Implementation Information Session #2 \(April 16, 2013\) Monitoring Requirements and IMPs and CIMPs](#)
- [Implementation Information Session #3 \(June 12, 2013\) First Year Reporting Requirements](#)





- CAL/EPA
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- Decisions Pending and Opportunities for Public Participation



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Home → Water Issues → Programs → Stormwater → Municipal → Watershed Management

## Watershed Management Programs

The Los Angeles County MS4 Permit allows Permittees the flexibility to develop Watershed Management Programs (WMPs) or Enhanced Watershed Programs (EWMPs) to implement the requirements of the Permit on a watershed scale through customized strategies, control measures, and best management practices (BMPs). Participation in a Watershed Management Program is voluntary and allows a Permittee to address the highest watershed priorities, including complying with the requirements of Part V.A. (Receiving Water Limitations), Part VI.E (Total Maximum Daily Load Provisions) and Attachments L through R, by customizing the control measures in Parts III.A.4 (Prohibitions - Non-Storm Water Discharges) and VI.D (Minimum Control Measures). All documents associated with the the development and implementation of the 31 Watershed Management Programs are available below. If you have any questions or comments regarding the watershed management programs please contact [Ivar Ridgeway](#), Senior Environmental Scientist of the Storm Water Permitting Unit at (213) 620-2150.

- [September 10, 2015 Board Hearing Petition Presentations](#)
- [Consideration of Petition for Review of the Los Angeles Water Board Executive Officer's Action to Approve, with Conditions, Nine Watershed Management Programs Pursuant to the LA County MS4 Permit](#)
- [April 13, 2015 Public Meeting on Revised Watershed Management Programs](#)
  - [Notice of Public Meeting](#)
  - [Meeting Agenda](#)
  - [Audio Recording of Public Meeting](#)
  - [NRDC, Heal the Bay, and LA Waterkeeper Comments on Revised WMPs](#)

**Note:** Presentations given by WMP groups at the April 13, 2015 public meeting can be found under the specific WMP group by clicking on the link for the group's webpage in the table below.)

- [Comments on Draft WMPs/IMP/CIMPs/EWMP Work Plans](#)
- [Final Reasonable Assurance Analysis Document](#)
- [Technical Advisory Committee](#)
- [GIS Files and Map of Watershed Management Areas](#)
- [Draft Watershed Management Program Review and Evaluation Questions](#)
- [Comments on Draft EWMPs](#)

| Group Name  | Cities/Permittees Involved   | Selected Program | Lead/ Coordinator | Watershed Management Area 1 | Watershed Management Area 2 |
|---|--|------------------|-------------------|-----------------------------|-----------------------------|
| <a href="#">Upper Santa Clara River Watershed</a> | LA County, LACFCD, Santa Clarita   | EWMP             | Santa Clarita     | Santa Clara River           |                             |
| <a href="#">Upper Los Angeles River Watershed</a> | Alhambra, Burbank, Calabasas, Glendale, Hidden Hills, La Canada Flintridge, Los Angeles, Montebello, Monterey Park, Pasadena, Rosemead, San Gabriel, San Marino, South El Monte, South Pasadena, Temple City, LA County, LAFCD | EWMP             | Los Angeles       | Los Angeles River           |                             |
| <a href="#">Los Angeles River Watershed</a>       | Bell, Bell Gardens, Commerce, Cudahy,  |                  |                   |                             |                             |

[www.swrcb.ca.gov/losangeles/water\\_issues/programs/stormwater/municipal/watershed\\_management/index](http://www.swrcb.ca.gov/losangeles/water_issues/programs/stormwater/municipal/watershed_management/index)

# EWMP: Upper LA River

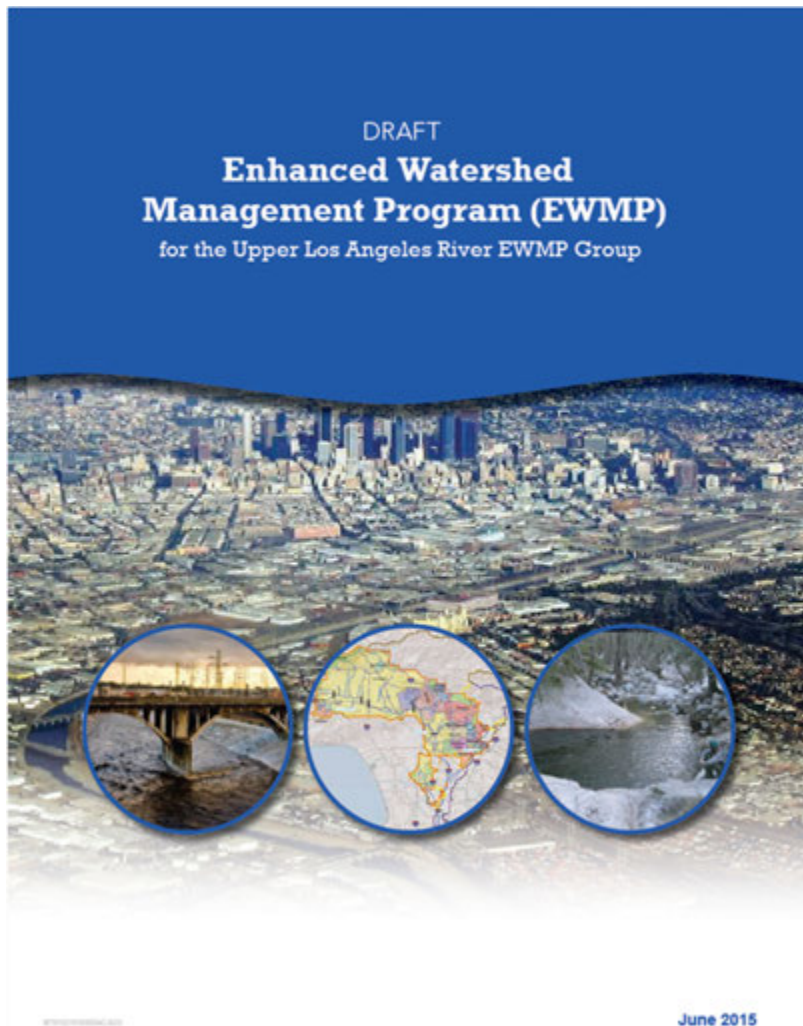


Figure 1-2. Upper Los Angeles River EWMP Area and Jurisdictions that Comprise the ULAR EWMP Group



# EWMP: Upper LA River

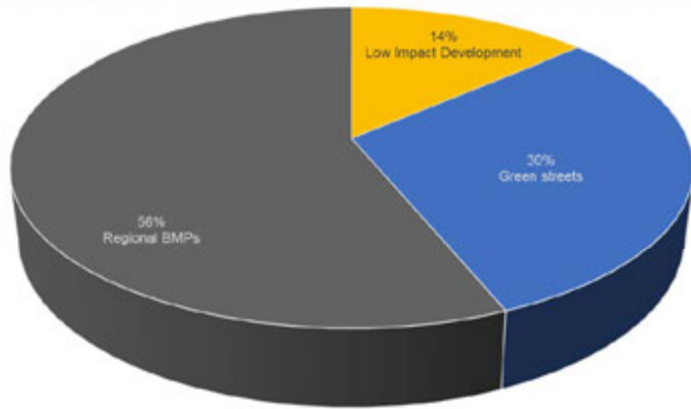


Figure 5-3. Relative Capacity of LID, Green Streets and Regional Control Measures to be implemented by the ULAR EWMP by 2028

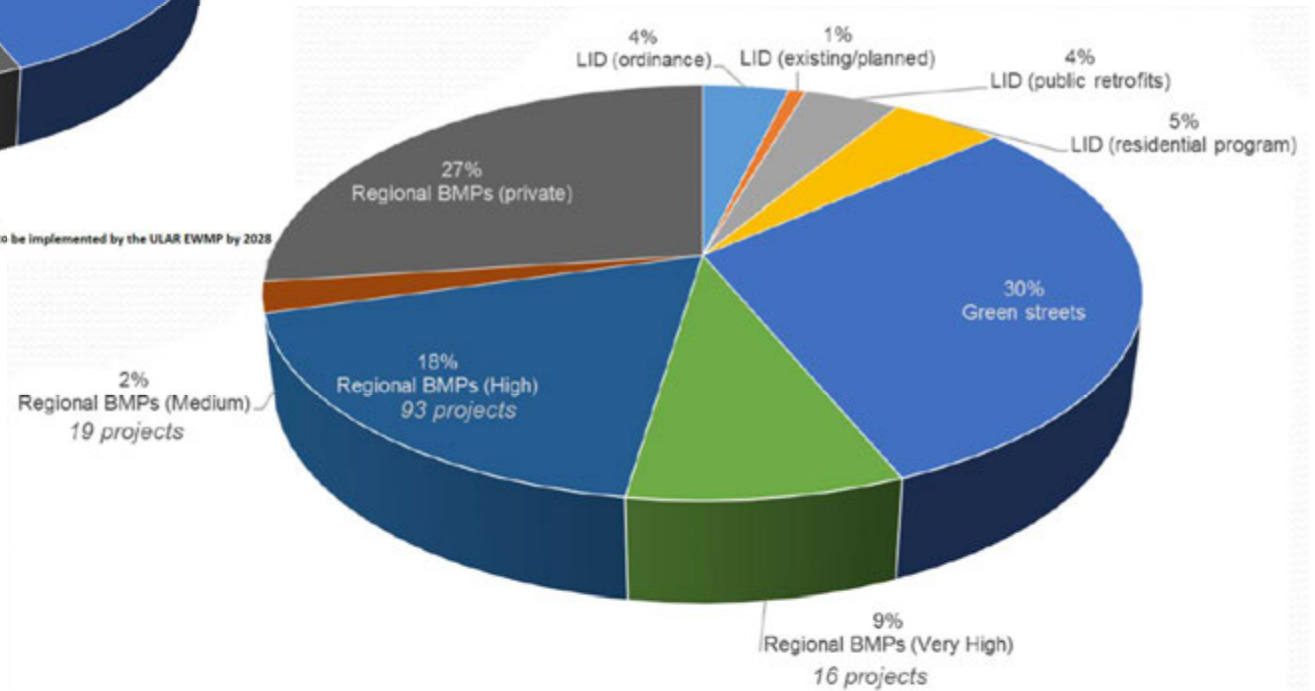
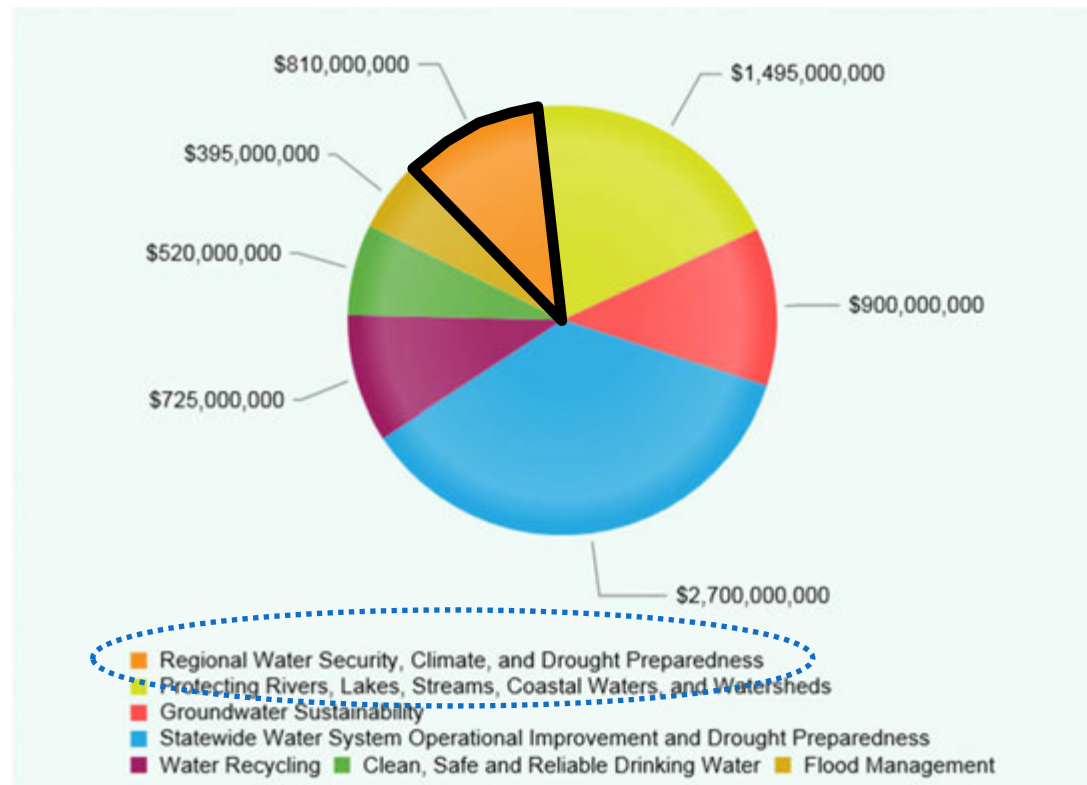


Figure 4-3. Relative Capacities of Different Control Measure Categories to be implemented by the ULAR EWMP by 2028.

# Funding Projects

## 2014: Proposition 1 - The Water Bond (AB 1471)



## Proposition 1

### REGIONAL WATER RELIABILITY: \$810 MILLION

Water conservation, stormwater capture and other programs that increase local and regional water supplies.



1

REGIONAL WATER RELIABILITY

WATER RECYCLING

SAFE DRINKING WATER

Regional Water Reliability  
\$810 million

Multi-Benefit Stormwater Management Projects  
\$200 million



# Storm Water Grant Program

- Division of Financial Assistance (DFA)
- \$200 million for grants for multi-benefit storm water management projects
- Eligible projects may include: green infrastructure, rainwater and storm water capture projects, and storm water treatment facilities

# Storm Water Grant Program -Tentative Timeline

| <b>Project Milestone</b>                       | <b>Date</b>                     |
|--|---------------------------------|
| <b>Public release of first draft documents</b> | August 28                       |
| <b>Stakeholder Workshops</b>                   | September 29 – October 1        |
| <b>Board Workshop</b>                          | October 7                       |
| <b>End of Public Comment Period</b>            | October 13                      |
| <b>Final Prop 1 FUNDING Guidelines</b>         | December 2015 /<br>January 2016 |
| <b>First Round – Solicitation/Review</b>       | Early 2016                      |
| <b>First Round – Grant/Loan Agreements</b>     | 2016 / 2017                     |



# State Water Board Funding

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STATE WATER RESOURCES CONTROL BOARD

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→ Decisions Pending and Opportunities for Public Participation

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GRANTS AND LOANS

## Financial Assistance Funding - Grants and Loans

### DFA Division of Financial Assistance

The Division of Financial Assistance (DFA) administers the implementation of the State Water Resources Control Board's (State Water Board) financial assistance programs, that include loan and grant funding for construction of municipal sewage and water recycling facilities, remediation for underground storage tank releases, watershed protection projects, nonpoint source pollution control projects, etc. DFA also administers the Operator Certification Program.

PROP 1 WATER BOND 2014

What's New Current Funding Other Programs Past Programs Quick Links Forms References

- NEW! Wastewater User Charge Survey Report F.Y. 2014-2015
- Proposition 1 Storm Water Grant Program and Storm Water Resources Plan Guidelines Now Available for Public Review (08/28/15)
- Proposition 1 Technical Assistance Funding Program

- Office of Sustainable Water Solutions
- Water Infrastructure P3s for Public Sector Training
- Funding for Interim Emergency Drinking Water
- Ground Water Quality Funding Program (Prop 1 Groundwater Sustainability & SB445-SCAP)
- State Water Board Streamlines Process to Apply for Drinking Water Funds
- CWSRF Fitch AAA Report
- CWSRF Program Evaluation Report (PER) - SFY 2013

# State Water Board Funding

The screenshot shows the website for the Storm Water Grant Program (SWGP) - Prop 1. The header includes the Office of Governor Edmund G. Brown Jr. and Board Chair Felicia Marcus. A navigation menu on the left lists various topics like Cal/EPA, State and Regional Water Boards' Map, Board Priorities, Laws/Regulations, Plans/Policies, Programs, and Decisions Pending and Opportunities for Public Participation. The main content area features a 'QUICK LINKS' section with links to the SWGP Home Page, SWGP Proposition 1, and SWGP Proposition 84. Below this is an 'Announcements' section stating that the Draft Proposition 1 SWGP and Draft Storm Water Resources Plan Guidelines are now available for public review and comment. It provides links for 'Draft Proposition 1 SWGP Guidelines and Storm Water Resource Plan Guidelines', 'Comments Received', 'Revised Public Notice', and 'Public Notice'. The 'Public Notice' link leads to a list of documents: 'Draft Proposition 1 - Storm Water Grant Program Guidelines', 'Draft Resolution Storm Water Resource Plan Guidelines', and 'Draft Storm Water Resource Plan Guidelines'. A 'Proposition 1 SWGP Guidelines and Storm Water Resource Plan Guidelines Development Schedule' section lists key dates: 'Draft SWGP and Plan Guidelines Released Friday, August 28, 2015', 'Public Comments Due - Noon (12:00 pm) on Tuesday, October 13, 2015', and 'Public Workshops for Draft SWGP and Plan Guidelines Scheduled:'. On the right side, there is a logo for 'PROP 1' with the text 'GOVERNOR EDMUND G. BROWN, JR. WATER BOND 2014 RELIABILITY | RESTORATION | RESILIENCE'. The footer of the website includes 'CONNECT WITH US' with a Twitter icon, 'Agendas English/Español', and logos for 'My Water Quality' and 'Performance'.

Office of Governor  
**Edmund G. Brown Jr.**  
Visit his Website

**Board Chair**  
**Felicia Marcus**  
Visit the Water Board Members Page

## Storm Water Grant Program (SWGP) - Prop 1

### QUICK LINKS

[SWGP Home Page](#) | [SWGP Proposition 1](#) | [SWGP Proposition 84](#)

### Announcements

The Draft Proposition 1 SWGP and Draft Storm Water Resources Plan Guidelines are now available for public review and comment. Please see the Public Notice for information on submitting comments.

- Draft Proposition 1 SWGP Guidelines and Storm Water Resource Plan Guidelines
  - [Comments Received](#)
  - [Revised Public Notice](#)
  - [Public Notice](#)
    - [Draft Proposition 1 - Storm Water Grant Program Guidelines](#)
    - [Draft Resolution Storm Water Resource Plan Guidelines](#)
    - [Draft Storm Water Resource Plan Guidelines](#)

### Proposition 1 SWGP Guidelines and Storm Water Resource Plan Guidelines Development Schedule

- Draft SWGP and Plan Guidelines Released Friday, August 28, 2015
- Public Comments Due - Noon (12:00 pm) on Tuesday, October 13, 2015
- Public Workshops for Draft SWGP and Plan Guidelines Scheduled:


# State Water Board Funding

**Contact Information**

Sean Maguire, Program Manager  
(916) 341-5877  
[Sean.Maguire@waterboards.ca.gov](mailto:Sean.Maguire@waterboards.ca.gov)

Ruben Mora, SWGP  
(916) 341-5387  
[Ruben.Mora@waterboards.ca.gov](mailto:Ruben.Mora@waterboards.ca.gov)

Division of Financial Assistance  
Storm Water Grant Program  
State Water Resources Control Board  
P.O. Box 944212  
Sacramento, CA 94244-2120

 Sign up for the [Storm Water Grant Program](#) email list ("Financial Assistance" section).

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**Reference Materials**

-> Coming Soon

[\[Back to Top\]](#)

**Funded Projects**

-> Project selection is anticipated in 2016.

(Updated 10/13/15)

[www.waterboards.ca.gov/subscribe](http://www.waterboards.ca.gov/subscribe)



# Thank you!

Beth Payne

Division of Water Quality

Storm Water Planning Unit

[Elizabeth.Payne@waterboards.ca.gov](mailto:Elizabeth.Payne@waterboards.ca.gov)