

SUPPLEMENTAL ENVIRONMENTAL PROJECT WORKPLAN: DEVELOPING A DESIGN STORM FOR STORMWATER MANAGEMENT IN THE LOS ANGELES REGION

This Supplemental Environmental Project proposal is to conduct Design Storm Development work, building on work originally performed by the Southern California Coastal Water Research Project Authority (SCCWRP) in 2007 (Ref: SCCWRP Technical Report 520). One goal of this project is to provide the information needed to develop a design storm that will be valuable to decision-makers in Ventura County, thus providing a regional benefit.

The project will be implemented by the Southern California Coastal Water Research Project (SCCWRP). SCCWRP has the institutional capacity and technical capability to complete the project successfully. Having completed the proof of concept for design storms in this region, SCCWRP is expected to successfully complete all work products and reports for this project. SCCWRP has successfully completed at least four other SEP projects for the Los Angeles Regional Water Quality Control Board. This project will not require CEQA certification. SCCWRP may subcontract some of the work to a qualified subcontractor to complement its in-house expertise.

Independent Third Party Information for Implementing SEP:

Project Agency: Southern California Coastal Water Research Project
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Project Director: Ken Schiff
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Scope of Work

Milestone 1 - Build a watershed modeling system

SCCWRP will build a watershed modeling system for Ventura County to extend the work in Los Angeles County to cover the entire Los Angeles Region, to the extent that the necessary data are available. Such a system shall account for key elements of watershed characteristics, including but not limited to: (1) rainfall, infiltration, and runoff, (2) pollutant generation, transportation, and removal mechanisms, and (3) potential impacts on receiving water quality.

Milestone 2 – Extrapolate concepts for Design Storm Criteria

SCCWRP will extrapolate concepts and criteria in the referenced SCCWRP work to other selected locations in the Los Angeles Region, particularly locations in Ventura County, using the model developed in Task 1. This will involve analyzing rainfall volume and intensity in selected foothills and mountainous regions using existing rain gauges to assess BMP effectiveness at selected land uses. The rainfall:water quality relationships and BMP modeling will also be used to assess BMP effectiveness for selected pollutants.

Milestone 3 – Analyze the flexibility to adapt and implement selected BMP designs.

SCCWRP will estimate cost ranges for development and/or redevelopment BMP applications in order to assess the cost-effectiveness of various BMP designs and applications.

Milestone 4 – Create tools that managers can use to derive potential design storm criteria

Based on Tasks 1-3, create tools that managers can use to derive potential design storm criteria. These tools should, at a minimum, determine the water quality outcomes associated with BMPs associated with achieving these design storm criteria.

Reporting

SCCWRP will prepare and submit quarterly reports, as well as draft and final reports, to the Regional Water Quality Control Board, consistent with the requirements of the SWRCB SEP Policy. SCCWRP also will provide any additional information requested by the Regional Board that is reasonably necessary to verify SCCWRP's progress in meeting SEP implementation goals and/or SEP expenditures.

Schedule

<i>Milestone</i>	<i>Product</i>	<i>Timeline (assumes start date of May 2010)</i>	<i>Cost (Total: \$300,000)</i>
Milestone 1 - Build a watershed modeling system	Model output extending work by LACFCD	December 31, 2011	\$160,000
Milestone 2 – Extrapolate concepts for Design Storm Criteria	Evaluate design storm concept for new land uses and pollutants	October 31, 2012	\$60,000
Milestone 3 – Analyze the flexibility to adapt and implement selected BMP designs	Cost analysis for new design storm criteria in task 3	October 31, 2012	\$40,000
Milestone 4 – Create tools that managers can use to derive potential design storm criteria	Design storm tools for managers	December 31, 2012	\$20,000
Reporting	<p>Quarterly Reports</p> <p>Draft Report</p> <p>Final Report</p>	<p>First report – 4th Quarter 2010 due no later than Feb 1, 2011</p> <p>1st Quarter due no later than May 1</p> <p>2nd Quarter due no later than Aug 1</p> <p>3rd Quarter due no later than Nov 1</p> <p>4th Quarter due no later than Feb 1</p> <p>Three months before Completion Date</p> <p>March 31, 2013 (or other designated Completion Date)</p>	\$20,000