



# REPORT TO COUNCIL City of Sacramento

915 I Street, Sacramento, CA 95814-2604  
[www.CityofSacramento.org](http://www.CityofSacramento.org)

**Consent**  
**September 7, 2010**

**Honorable Mayor and  
Members of the City Council**

**Title: Agreement: Combined Sewer System Improvement Plan Update – Phase 2  
(X14010065)**

**Location/Council District:** This project is located within the Combined Sewer System service area and Council Districts 1,3,4,5,6 (See Attachment 2 Location Map).

**Recommendation:** Adopt a **Resolution:** to 1) establish X14010065 for the CSS Improvement Plan Update Phase 2 Project; 2) transfer Sewer funds (Fund 6006) in the amount of \$125,000 from the Base CIP Reserve-Sewer Project (X14000500) to the CSS Improvement Plan Update Phase 2 Project (X14010065); 3) transfer Sewer funds in the amount of \$275,000 from the CSS Improvement Plan Update Project (X14010022) to the CSS Improvement Plan Update Phase 2 Project (X14010065); and 4) award a professional services agreement for the Combined Sewer System Improvement Plan Update to AECOM Technical Services, Inc., for an amount not to exceed \$284,000

**Contact:** David L. Brent, Utilities Department, Engineering Services Manager, 808-1420; Rick Batha Supervising Engineer, 808-1448

**Presenters:** Not applicable

**Department:** Utilities

**Division:** Engineering Services

**Organization No:** 14001321

## **Description/Analysis**

**Issue:** The City's National Pollution Discharge Elimination System (NPDES) permit for the Combined Sewer System (CSS) requires continuous improvements to the CSS to reduce outflows to City streets. This project supports the City's ongoing efforts to construct improvements that will reduce sewer outflows to City streets. There are two phases to this program. AECOM Technical Services, Inc. completed the first phase (Phase 1) by updating and calibrating the computer model that the Department of Utilities (DOU) uses to

evaluate CSS improvement projects. The second phase (Phase 2) will be the implementation of this model to develop and evaluate future improvement projects required to meet the NPDES permit requirements. The proposed agreement is for Phase 2 of this program. AECOM Technical Services, Inc., was the only firm to respond to DOU’s Request for Qualifications (RFQ) for the performance of Phase 2.

**Policy Considerations:** The CSS Improvement Plan Update will give DOU a template to guide growth and capital improvements that will provide for a safer and more reliable CSS. It will also help ensure compliance with the new regulations in the new NPDES permits regulating the CSS. This CSS Improvement Plan Update project is consistent with the City Council focus areas of public safety, economic development, and sustainability and livability.

**Environmental Considerations:**

**California Environmental Quality Act (CEQA):** Environmental Planning Services has determined that Professional Services Agreements for condition assessment activities are exempt from the California Environmental Quality Act (CEQA), pursuant to Section 15061(b)(3) of the CEQA Guidelines. Section 15061(b)(3) provides that activities are covered by the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA.

**Rationale for Recommendation:** The Engineering Services division of the DOU developed a scope of work for the improvement plan update and issued a RFQ for the performance of these services. AECOM Technical Services, Inc. was the only firm to submit a Statement of Qualifications. AECOM Technical Services, Inc. met the requirements of the RFQ and had already successfully completed phase 1 of this project.

**Financial Considerations:** The total estimated Phase 2 project cost, including the professional services agreement and City staff review time is \$400,000. The new project (X14010065) will have sufficient sewer (6006) funds to complete the project upon the transfer of sewer funds from the following projects:

X14000500 Base CIP Reserve – Sewer	\$125,000
X14010022 CSS Improvement Plan Update	<u>\$275,000</u>
Total	\$400,000

**Emerging Small Business Development (ESBD):** AECOM Technical Services, Inc. is not an ESBE firm.

Respectfully Submitted by:



David L. Brent  
Engineering Services Manager

Approved by:



Marty Hanneman  
Director of Utilities

Recommendation Approved:

  
Gus Vina  
Interim City Manager

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## Attachment 1

### Background

In June 1990, the Regional Water Quality Control Board (RWQCB) issued a Cease and Desist Order (CDO) requiring the City to eliminate Combined Sewer Outflows (CSOs) from the Combined Sewer System (CSS) into City streets and properties. After exhaustive studies and rigorous benefit/cost analysis, the City Council adopted a Combined Sewer System Improvement Plan (CSSIP) in 1995. The CSSIP met the requirements of the CDO, the EPA's Combined Sewer Overflow Control Policy, and the City's adopted goals for the storm drainage system. That same year, the RWQCB approved the Improvement Plan, rescinded the CDO, and issued an NPDES permit that mandated implementation of the Improvement Plan and protection of the water quality in the Sacramento River.

The CSSIP principle intention was to reduce CSOs to the Sacramento River and CSS outflows to the City streets. It generally consisted of increasing the pumping capacities of Sumps 1/1A and 2/2A, converting Pioneer Reservoir to a primary treatment facility by adding disinfection, installing a relief sewer system in the downtown area, and constructing several local or regional underground storage facilities and relief sewers in areas that are currently subjected to frequent outflows and flooding. In addition, the CSSIP had a substantial rehabilitation and replacement component, due to the antiquity of the system. Most of these improvements have been completed, others are in design or under study as part of an on-going process to improve the CSS system and update the CSSIP. The remaining projects in the City's existing CSSIP consist of 6 projects that are programmed for construction over the next 7 to 8 years. These projects are a mix of large regional storage vaults and large diameter pipes which serve as both conveyance and inline storage.

Phase 1 of the Combined Sewer System Improvement Plan Update project converted the CSS SWMM model from EPA Version 3 SWMM modeling software to the Version 10.0 Wallingford InfoWorks CS software. The comprehensive effort to advance the DOU's modeling capabilities was completed recently by extending the physical network representation, updating dry- and wet-weather flow inputs, reviewing and refining model assumptions and techniques, and validating the model against existing data and those obtained as part of a flow monitoring program conducted over the period January 9 – March 10, 2009. AECOM Technical Services, Inc. successfully completed Phase 1 of the Combined Sewer System Improvement Plan update.

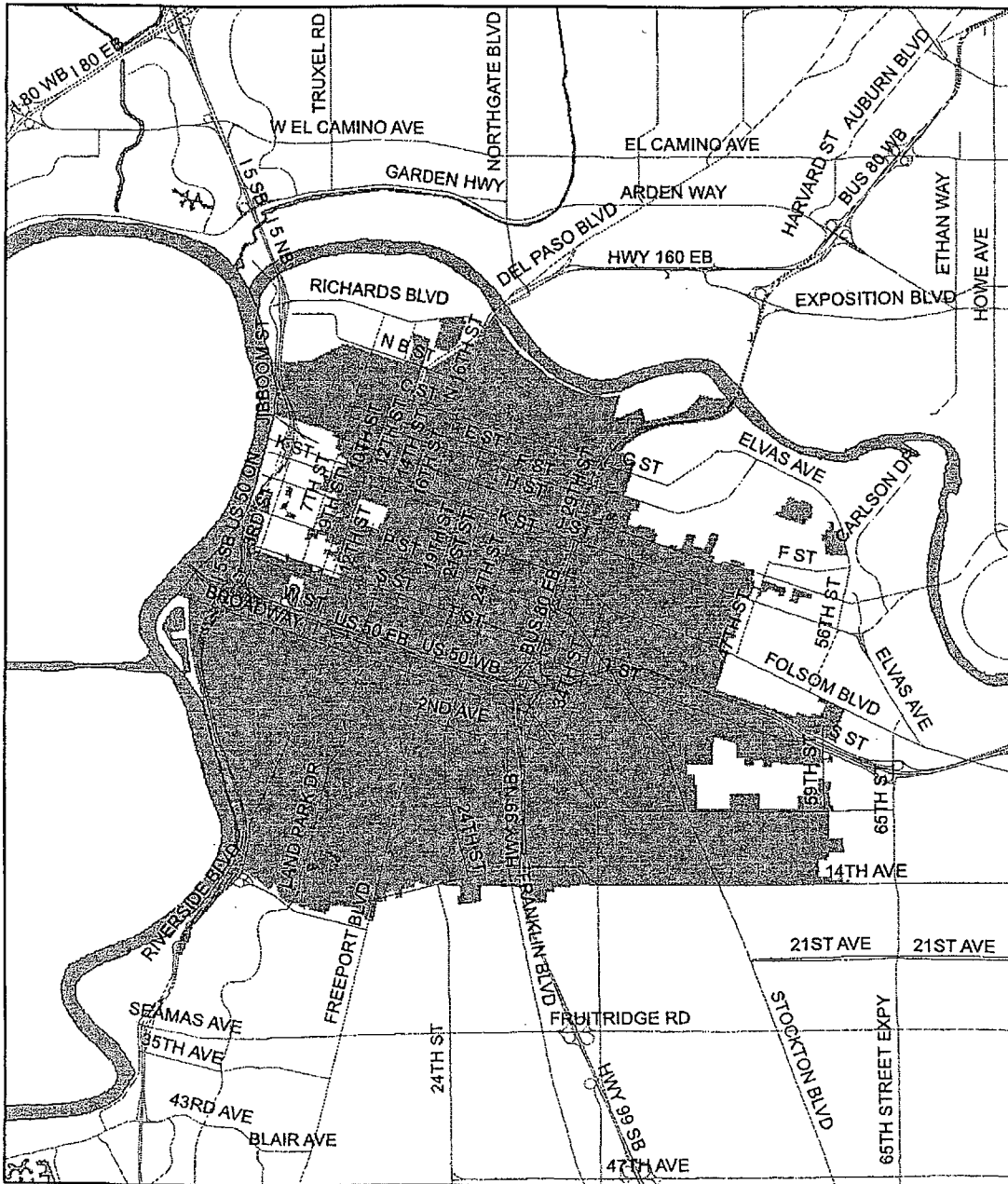
On 28 January 2010, the California Regional Water Quality Control Board issued a revised NPDES permit that requires the City to continue the implementation of the Long-Term Control Plan with interim goals to be met as progress is made towards the final goal of minimizing street flooding during a 10-year storm event and to prevent structure flooding during a 100-year storm event. The goal of Phase 2 of the Combined Sewer System Improvement Plan Update is to develop a comprehensive plan for

eliminating nearly all CSS outflows, meeting the City's adopted goals to minimize street flooding during a 10-year storm event and to prevent structure flooding during a 100-year storm event, accommodating build-out (2030), and meeting the Regional Water Quality Control Board's requirements in the most cost effective manner feasible.

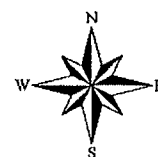
A Request for Qualifications (RFQ) was advertised on May 19, 2010. Only one firm, AECOM Technical Services, Inc., submitted a Statement of Qualifications (SOQ) as of the submittal deadline. City staff evaluated the SOQ and recommends awarding a professional services agreement to AECOM Technical Services, Inc.

**Attachment 2**

**LOCATION MAP FOR  
COMBINED SEWER SYSTEM IMPROVEMENT PLAN UPDATE**



Map Prepared by  
City of Sacramento  
Department of Utilities



**Attachment 3**

**RESOLUTION NO. 2010-**  
Adopted by the Sacramento City Council

September 7, 2010

**AGREEMENT: COMBINED SEWER SYSTEM IMPROVEMENT PLAN UPDATE –  
PHASE 2 (X14010065)**

**BACKGROUND**

- A. The City's National Pollution Discharge Elimination System (NPDES) permit for the Combined Sewer System (CSS) requires continuous improvements to the CSS to reduce outflows to City streets. As part of its on-going program to improve the CSS and comply with NPDES permit requirements, the City is updating its CSS Improvement Plan in two phases. AECOM Technical Services, Inc. completed the first phase (Phase 1) by updating and calibrating the computer model that the Department of Utilities (DOU) uses to evaluate CSS improvement projects. The second phase (Phase 2) will be the implementation of this model to develop and evaluate future improvement projects required to meet the NPDES permit.
- B. A Request for Qualifications was issued to engineering firms to perform the Phase 2 services. AECOM Technical Services is the only firm that responded. City staff recommends approval of a professional services agreement with AECOM Technical Services, Inc., for an amount not to exceed \$284,000.

**BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL  
RESOLVES AS FOLLOWS:**

- Section 1. X14010065 is established as the Capital Improvement Program project for the Combined Sewer System Improvement Plan Update, Phase 2.
- Section 2. The City Manager is authorized to transfer \$125,000 of sewer funds (Fund 6006) from the Base CIP Reserve-Sewer Project (X14000500) to the Combined Sewer System Improvement Plan Update Phase 2 Project (X14010065).
- Section 3. The City Manager is authorized to transfer \$275,000 of sewer funds (Fund 6006) from the Combined Sewer System Improvement Plan

Update Project (X14010022) to the Combined Sewer System Improvement Plan Update Phase 2 Project (X14010065).

Section 4. The City Manager is authorized to sign a Professional Services Agreement for the Combined Sewer System Improvement Plan Update, Phase 2 with AECOM Technical Services, Inc., for an amount not to exceed \$284,000.