

Meeting Date: 4/9/2013

Report Type: Consent

Report ID: 2013-00271



City Council Report

915 I Street, 1st Floor

www.CityofSacramento.org

Title: Supplemental Agreement: Lower American River (LAR) Flow Management Standard Environmental Impact Report (EIR)

Location: Citywide

Issue: The LAR FMS update project is an essential element of the Water Forum Agreement (WFA) and additional professional and technical services are necessary to develop the Environmental Impact Report for the WFSE's proposal to update the lower American River FMS.

Recommendation: Pass a Motion authorizing the City Manager, or his designee, to execute a supplemental agreement to Agreement No. 2012-0124 with cbec, Inc., to continue with the development of the Environmental Impact Report for the update of the lower American River Flow Management Standard, for the amount of \$152,800, increasing the agreement not-to-exceed amount to \$562,800.

Contact: Tom Gohring, CCOMWP Executive Director, (916) 808-1998, Department of Utilities

Presenter: None

Department: Community Support

Division: CCOMWP

Dept ID: 80004101

Attachments:

- 1-Description/Analysis
- 2-Background
- 3-Agreement

City Attorney Review

Approved as to Form
Joe Robinson
3/19/2013 6:29:49 PM

City Treasurer Review

Reviewed for Impact on Cash and Debt
Janelle Gray
3/13/2013 9:12:15 AM

Approvals/Acknowledgements

Department Director or Designee: Tom Gohring - 3/19/2013 9:52:17 AM



Description/Analysis

Issue: On January 22, 2012, the City entered into an agreement with cbec, Inc. (2012-0124) for an amount not to exceed \$410,000 to provide professional and technical services for the lower American River Flow Management Standard (FMS) update project. The FMS update project is an essential element of the Water Forum Agreement (WFA). This project is being managed by the City-County Office of Metropolitan Water Planning (CCOMWP), which staffs and manages the Water Forum Successor Effort (WFSE).

CCOMWP has identified additional professional and technical services necessary to develop the Environmental Impact Report for the WFSE's proposal to update the FMS, which would increase the agreement by an amount not to exceed \$152,800, bringing the total contract amount to a maximum of \$562,800.

Policy Considerations: This report is submitted in compliance with the policy direction provided by the Sacramento City Council and Sacramento County Board of Supervisors in forming the CCOMWP, approving its work plan, and supporting the efforts of the Water Forum (City Agreement 2001-005).

Economic Impacts: None.

Environmental Considerations:

California Environmental Quality Act (CEQA): Approval of this supplemental agreement will allow for continuation of the environmental review required for the proposed Lower American River Flow Management Standard.

Sustainability Considerations: Approval of this agreement is consistent with the City of Sacramento's Sustainability Master Plan Goals. Pursuit of a Flow Management Standard for the lower American River that is more protective of fisheries and aquatic resources is a fundamental element of the Water Forum Agreement, which is supported by the City's Sustainability Goal No. 7 - Parks, Open Space and Habitat Conservation.

Commission/Committee Action: None.

Rationale for Recommendation: Funding for the Flow Management Standard EIR was approved with adoption of the FY2012/13 CCOMWP budget. Approval of this contract amendment is consistent with the approved budget. The additional tasks described in this modification are required in order to complete the project. These additional tasks could not be anticipated when the original contract was awarded.

Financial Considerations: This contract has no impact on the City's General Fund. There are sufficient resources for the proposed supplemental agreement in the amount of \$152,800 in Fund 7103 for the Water Forum Successor Effort (WFSE) and Fund 7104 for the Habitat Management Element (HME). The WFSE and HME are funded by a cost-share agreement among the City of Sacramento, County of Sacramento, and other cost-share partners including the City of Roseville, City of Folsom, Placer County

Water Agency, Sacramento Municipal Water District, San Juan Water District (Placer County Service Area), and the El Dorado County Water Agency.

Emerging Small Business Development (ESBD): cbec, inc. hydrologic engineering is a certified SBE.



Background Information:

The City and County of Sacramento created the City-County Office of Metropolitan Water Planning (CCOMWP) in 1991 to pursue a joint water planning effort in the greater Sacramento Metropolitan area. In 1993, a diverse group of business and agricultural leaders, citizens groups, environmentalists, water managers, and local governments formed the Sacramento Area Water Forum.

In 1999, Water Forum members approved a comprehensive Water Forum Agreement (WFA) (City Agreement No. 1999-222). The WFA consists of integrated actions necessary for providing a regional solution to water shortages, environmental damage, groundwater contamination, and limited economic prosperity. The CCOMWP has been charged with staffing the effort to implement the WFA, known as the Water Forum Successor Effort (WFSE).

A revised flow standard that is more protective of the aquatic resources of the lower American River (LAR) is one of the WFA's seven elements and critical to meeting its co-equal objectives. These activities may include submittal of a petition to the State Water Resources Control Board by the U.S. Bureau of Reclamation, to add conditions to Reclamation's Folsom Reservoir water right permits that provide for flow releases to the LAR in accordance with the proposed LAR Flow Management Standard (FMS). The CCOMWP, on behalf of the WFSE, is working on environmental documentation.

Under C2012-0124 cbec, inc. eco engineering (cbec) has conducted previous technical analysis related to this project and has teamed with the lead consulting firm, HDR|Surface Water Resources, Inc., to provide specific unique modeling and analysis required for the EIR.

If the proposed supplemental agreement is approved, cbec will provide additional technical support for the development of the Flow Management Standard (FMS) for the lower American River (LAR), as well as preparation of associated portions of the Environmental Impact Report (EIR). The additional tasks consist of enhancement to the Iterative Coldwater Pool Management Model (iCPMM) and application of the enhanced iCPMM to different scenarios, and modification to the water temperature model and application of this model to additional project scenarios.

These additional tasks are crucial to the FMS EIR, as they provide the analytical tools to assess differences in water temperatures in the LAR between scenarios. Reduced water temperatures are expected to be one of the most significant environmental benefits of the proposed FMS, thus accurately characterizing differences between scenarios is of critical importance.



SUPPLEMENTAL AGREEMENT

Project Title and Job Number: Lower American River Flow Management Standard EIR
Purchase Order #: 18307

Date: 02/23/13
Supplemental Agreement No.: One

The City of Sacramento ("City") and cbec, Inc. ("Contractor"), as parties to that certain Professional Services Agreement designated as Agreement Number 2012-0124 including any and all prior supplemental agreements modifying the agreement (the agreement and supplemental agreements are hereafter collectively referred to as the "Agreement"), hereby supplement and modify the Agreement as follows:

1. The scope of Services specified in Exhibit A of the Agreement is amended as follows:

The date of completion is extended to June 30, 2014 and Contractor will provide additional professional services to the City of Sacramento related to the Lower American River Flow Management Standard Environmental Impact Report, as described in detail in Attachment 2 to Exhibit A, attached hereto and incorporated by this reference.

2. In consideration of the additional and/or revised services described in section 1, above, the maximum not-to-exceed amount that is specified in Exhibit B of the Agreement for payment of Contractor's fees and expenses, is increased by \$152,800 as described in Attachment 2 to Exhibit B, attached hereto and incorporated by this reference; and the Agreement's maximum not-to-exceed amount is amended as follows:

Agreement's original not-to-exceed amount:	\$410,000
Net change by previous supplemental agreements:	<u>0</u>
Not-to-exceed amount prior to this supplemental agreement:	410,000
Increase by this supplemental agreement:	<u>152,800</u>
New not-to exceed amount including all supplemental agreements:	\$562,800

3. Contractor agrees that the amount of increase or decrease in the not-to-exceed amount specified in section 2, above, shall constitute full compensation for the additional and/or revised services specified in section 1, above, and shall fully compensate Contractor for any and all direct and indirect costs that may be incurred by Contractor in connection with such additional and/or revised services, including costs associated with any changes and/or delays in work schedules or in the performance of other services or work by Contractor.
4. Contractor warrants and represents that the person or persons executing this supplemental agreement on behalf of Contractor has or have been duly authorized by Contractor to sign this supplemental agreement and bind Contractor to the terms hereof.
5. Except as specifically revised herein, all terms and conditions of the Agreement shall remain in full force and effect, and Contractor shall perform all of the services, duties, obligations, and conditions required under the Agreement, as supplemented and modified by this supplemental agreement.

Approval Recommended By:

Approved As To Form By:

Tom Gohring, Project Manager

City Attorney

Approved By:

cbec, Inc., Contractor

Attested To By:

Approved By:

City of Sacramento

City Clerk

SUPPLEMENTAL AGREEMENT

Attachment 2 to Exhibit A



Hydrology | Hydraulics | Geomorphology | Design | Field Services

SCOPE OF WORK

Date: February 23, 2013
To: Tom Gohring, Water Forum
From: Chris Hammersmark, Ph.D., P.E., cbec inc. eco engineering
Project: LAR Flow Management Standard (cbec #: 12-1010, WF #: 2012-0124)
Subject: Budget Modification for Unexpected Modeling Tasks

At the request of Tom Gohring of the Sacramento Water Forum, cbec, inc. eco engineering (cbec) has prepared a scope of work for a budget modification to provide additional technical support for the development of the Flow Management Standard (FMS) for the lower American River (LAR), as well as preparation of associated portions of the Environmental Impact Report (EIR). The task numbers provided below, correspond with the task numbers in the previous scope of work, which we are currently under contract to perform (Water Forum Contract # 2012-0124).

The tasks described below are crucial to the FMS EIR, as they provide the analytical tools to assess differences in water temperatures in the LAR between scenarios. Reduced water temperatures are expected to be one of the most significant environmental benefits of the proposed FMS, thus accurately characterizing differences between scenarios is of critical importance.

Task 2 – Augmentation for iCPMM Activities

This task includes: 1) additional enhancement of the Iterative Coldwater Pool Management Model (iCPMM), 2) validation of iCPMM, and 3) application of the enhanced iCPMM to multiple scenarios under consideration in the EIR.

These additional iCPMM activities were not foreseen at the time the initial scope of work was submitted in 2011. Through the course of the development of the various alternatives to be considered in the EIR, the role of iCPMM in the analytical process has increased substantially. For all scenarios receiving detailed analysis in the EIR, iCPMM will be used to determine an 81 year time series of water temperatures leaving Folsom Dam, as the previous method (USBR's Monthly Temperature Model) has been found to be inadequate for this purpose. We have budgeted for up to 11 scenarios to be analyzed with the basic form of iCPMM. In addition, iCPMM will also be used for a subset of these scenarios to iteratively determine the flow release pattern which results in the most beneficial water temperatures in the LAR downstream. We have budgeted for up to 4 scenarios to be analyzed with the release pattern optimizing form of iCPMM.

SUPPLEMENTAL AGREEMENT

Task 3 – Augmentation for HEC-RAS Modeling Activities

This includes: 1) development of modified boundary condition disaggregation (temporal downscaling) tools which are used to provide flow, water temperature and meteorological inputs to the sub-daily hydrodynamic and water temperature model of the LAR (HEC-RAS model), and 2) application of the modified boundary condition disaggregators and simulation of 9 additional FMS scenarios with the HEC-RAS models. Preliminary boundary condition disaggregators were developed previously. These boundary condition disaggregators are in need of modification based upon different inputs (e.g., water temperatures released from Folsom Dam will now be simulated with iCPMM rather than the USBR Temperature Model), as well as input from the project team indicating further refinement is required.

In the original scope, we budgeted to perform simulation of up to 10 scenarios. Through the course of alternative development with the project stakeholders, 8 alternatives have been simulated with the HEC-RAS model. We anticipate that 11 scenarios will need to be analyzed with the HEC-RAS model. With budget to analyze 2 scenarios (10 allowed, and 8 already assessed) still present in the existing contract, in this budget augmentation, we have allowed for 9 additional FMS scenarios to be simulated and assessed.

Proposed Additional Budget

cbec proposes to perform these additional services on a time and materials basis. Our estimated cost to perform the tasks outlined in this additional scope of work is \$152,800, as shown by the attached budget estimate.

SUPPLEMENTAL AGREEMENT

Attachment 2 to Exhibit B



Hydrology | Hydraulics | Geomorphology | Design | Field Services

ESTIMATED PROJECT BUDGET SUMMARY							
Technical Support Services for the FMS, Budget Add-On							
cbec Project # 11-1026							
Task #	Task Description						Subtotal
2	iCPMM Activities						\$ 76,800.00
3	HEC-RAS Activities						\$ 76,000.00
					Labor Fee		\$ 152,800.00
					Reimbursables		\$ -
					Subconsultant(s)		\$ -
					Total Project Budget		\$ 152,800.00