

Meeting Date: 10/20/2015

Report Type: Consent

Report ID: 2015-00859

Title: Supplemental Agreement: Lower American River Flow Management Standard

Location: Citywide

Recommendation: Pass a Motion authorizing the City Manager, or his designee, to execute Supplemental Agreement No. 5 to City Agreement No. 2009-0804 with HDR Engineering, Inc., for an amount not-to-exceed \$800,123, to continue with the further refinement and documentation of the lower American River Flow Management Standard and modified lower American River Flow Management Standard, bringing the agreement's not-to-exceed amount to \$2,720,116.

Contact: Tom Gohring, Executive Director, (916) 808-1998, City-County Office of Metropolitan Water Planning

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
10/7/2015 2:05:38 PM

Approvals/Acknowledgements

Department Director or Designee: Tom Gohring - 10/6/2015 12:25:59 PM

Description/Analysis

Issue: This report identifies the need for additional professional and technical services for the City-County Office of Metropolitan Water Planning (CCOMWP), which staffs and manages the Water Forum Successor Effort (WFSE). The Lower American River Flow Management Standard (FMS) update project is an essential element of the Water Forum Agreement (WFA). The proposed supplemental agreement with HDR Engineering, Inc. is for continued environmental support and regulatory compliance services for the processing and preparation of documentation required under the California Environmental Quality Act (CEQA) for the FMS environmental and resources analysis.

Policy Considerations: City Council approval is required for supplemental agreements that exceed \$100,000.

Economic Impacts: Not applicable.

Environmental Considerations California Environmental Quality Act (CEQA): This report concerns administrative activities that will not have a significant effect on the environment and does not constitute a “project” as defined by CEQA [CEQA Guidelines Sections 15061(b)(3); 15378(b)(2)]. The additional services being authorized are needed to continue work on the FMS update project.

Sustainability Considerations: Approval of this supplemental 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: Not applicable.

Rationale for Recommendation: Through July 24, 2015, HDR Engineering has performed work activities under Agreement 2009-0804 pursuant to nine previously issued task orders, most recently Task Orders 8 and 9, which were executed on June 26, 2014. While previous task orders were focused on the preparation of the FMS Environmental Impact Report, (EIR) the regulatory and political landscape surrounding the lower American River has changed, and numerous other public agencies, including the U.S. Bureau of Reclamation and the California State Water Resources Control Board, are embarking upon regulatory activities that may include the Water Forum’s modified FMS, potentially eliminating the need for the Water Forum to develop a final Environmental Impact Report on its own. Accordingly, if approved by Council, Task Order 10 would include funding for the further refinement and documentation of the FMS and modified FMS, coordination with internal and external organizations, parties, and other WSFE consultants, and the potential development of new alternatives in collaboration with potential project partners.

Financial Considerations: Approval of this supplemental professional services agreement is consistent with the approved budget. This contract amendment has no impact on the City's General Fund. There are sufficient resources in the CCOMWP FY2015/16 budget for the proposed supplemental agreement in the amount of \$800,123. If approved, this amendment will increase the agreement's total not-to-exceed amount to \$2,720,116 and extend the date of completion to December 31, 2016.

Task Order 10 is intended to supersede all previous HDR task orders; any remaining funding on task orders approved prior to Task Order 10 under the current contract will be de-obligated and considered no longer available for performance of those task orders upon execution of Task Order 10.

The WFSE is funded by CCOMWP through 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.

Local Business Enterprise (LBE): HDR Engineering, Inc. qualifies as an LBE.

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 WFA (C1999-222). 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 WFSE (C2001-005).
- Implementation of a revised FMS that is more protective of the aquatic resources of the lower American River is one the WFA's seven elements and is an essential task of the WFSE.
- The purpose of the FMS is to achieve a legally enforceable, durable and protective flow standard that is consistent with the goals of the Water Forum Agreement. The FMS has been developed to achieve the following sub-objectives: (1) establish minimum flow requirements and water temperature objectives that are protective of the fisheries resources in the lower American River; (2) identify criteria for implementing the new minimum flow requirements; (3) establish and regularly convene an agency group to address operational and related issues; and (4) develop a monitoring and evaluation program to verify the efficacy of new in-stream flow requirements for the lower American River.
- In July 2009, CCOMWP staff developed a scope of work for the professional services needed for this effort and solicited Qualifications Statements from consulting firms. A selection committee reviewed the qualifications received and selected HDR Engineering, Inc. as the top ranked firm to lead the project and prepare the Environmental Impact Report. On September 1, 2009, Council authorized Agreement No. 2009-0804 for an amount not-to-exceed \$1,285,993, for HDR Engineering to perform this work.
- HDR Engineering's project management activities have included oversight of other environmental team members' administrative, team coordination, strategic, and report preparation activities related to the development and completion of the Environmental Impact Report. Additionally, HDR Engineering serves as a technical liaison between the environmental resources specialists and the FMS Project Management Team, and oversees document production ensuring

consistency and technical quality assurance/quality control.

- On November 27, 2012, Council authorized an increase of \$215,000 for this agreement bringing the not-to-exceed amount to \$1,500,993.
- Council authorized a second increase of \$419,000 on June 24, 2014, bringing the not-to-exceed amount to \$1,919,993.
- Since June 24, 2014, the project team has identified additional services needed from HDR Engineering to complete the project requiring additional funding of \$800,123. This amendment would provide for Task Order 10 and includes funding for the further refinement and documentation of the FMS and modified FMS, coordination with internal and external organizations, parties and other Water Forum consultants, and the potential development of new alternatives in collaboration with potential project partners.



Requires Council Approval: No YES Meeting: 10-20-15

Real Estate Other Party Signature Needed Recording Requested

General Information

Type: Professional Services Attachment: Supplement Number: 5
PO Type: Formal Bid-Prof Service Original Document Number: 2009-0804
\$ Not to Exceed: \$ 800,123 Original Contract Amount: \$ 1,285,993
Other Party: HDR Engineering, Inc. Deed: [X]None []Included []Separate
Project Name: Lower American River FMS No. Certified Copies of Document:
Project Number:
Bid Transaction #: E/SBE-DBE-M/WBE:

Department Information

Department: City-Wide and Community Support Division: C.C.O.M.W.P.
Project Mgr: Tom Gohring Supervisor: Tom Gohring
Contract Services: Kathy Howard Date: 09/29/2015 Division Mgr: Tom Gohring
Phone Number: 808-1995 Org Number: 80004101 Dept. I.D.
Comment:

Review and Signature Routing

Table with columns: Department, Signature or Initial, Date. Rows for Project Mgr, Accounting, Contract Services, Supervisor, Division Manager.

City Attorney Signature or Initial Date
City Attorney: Joe Robinson [Signature] 10-6-15

[] Send Interoffice Mail [X] Notify for Pick Up

Authorization Signature or Initial Date
Tom Gohring
Department Director:
City Mgr: yes [X] No []

Contract Cover/Routing Form: Must Accompany ALL Contracts; however, is not part of the Contract

For City Clerk Processing
Finalized:
Initial:
Date:
Imaged:
Initial:
Date:
Received:
(City Clerk Stamp Here)

SUPPLEMENTAL AGREEMENT

Project Title and Job Number: Lower American River Flow Management Standard
Purchase Order #: 24684

Date: 09/14/2015

Supplemental Agreement No.: 5

The City of Sacramento ("City") and HDR Engineering, Inc. ("Contractor"), as parties to that certain Professional Services Agreement designated as Agreement Number 2009-0804, 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:
 - A. Contractor shall perform the additional services described in Task Order 10, attached hereto and incorporated herein.
 - B. The period of performance under this Agreement is extended through 12/31/2016.
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 / Decreased by 800,123, and the Agreement's maximum not-to-exceed amount is amended as follows:

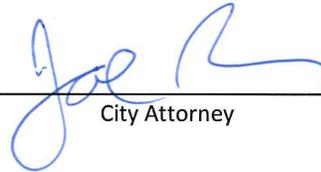
Agreement's original not-to-exceed amount:	<u>1,285,993</u>
Net change by previous supplemental agreements:	<u>634,000</u>
Not-to-exceed amount prior to this supplemental agreement:	<u>1,919,993</u>
Increase/Decrease by this supplemental agreement:	<u>800,123</u>
New not-to exceed amount including all supplemental agreements:	<u>2,720,116</u>
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:



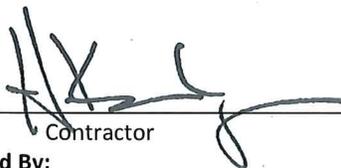
Project Manager

Approved As To Form By:



City Attorney

Approved By:



Contractor

Attested To By:

Approved By:

City of Sacramento

City Clerk

TASK ORDER 10 SCOPE OF WORK

FOR THE

**CITY OF SACRAMENTO
CITY-COUNTY OFFICE OF METROPOLITAN WATER PLANNING**

**LOWER AMERICAN RIVER FLOW MANAGEMENT STANDARD
HYDROLOGICAL AND ENVIRONMENTAL DEVELOPMENT AND
ANALYSIS**

**PREPARED BY
HDR ENGINEERING, INC.**

Introduction

HDR Engineering, Inc. (HDR) has been requested to prepare a Scope of Work and Cost Estimate for Task Order 10 to provide additional analytical and environmental support services to the City-County Office of Metropolitan Water Planning (Water Forum) for coordination with potential partners and in preparation of potential environmental compliance activities.

HDR received Scope of Work and Master Contract No. 2009-0804 (Master Contract) during 2009 for development of the FMS EIR, which included project planning and initiation activities, including coordination with lead, responsible, trustee and cooperating agencies, and key stakeholder representatives; and preparation of a Public Scoping Summary, Administrative Draft EIR, Public Draft EIR and Final EIR, including project team coordination activities necessary to prepare the responses to public and agency comments received on the Public Draft document.

Through July 24, 2015, HDR has performed work activities under the Master Contract pursuant to 9 previously issued task orders, most recently Task orders 8 and 9 which were executed June 26, 2014. While previous task orders were focused on the preparation of the FMS EIR, the regulatory and political landscape surrounding the lower American River has changed, and numerous other public agencies, including the U.S. Bureau of Reclamation (Reclamation) and the California State Water Resources Control Board (SWRCB), are embarking upon regulatory activities that may include the Water Forum's modified FMS, eliminating the need for the Water Forum to develop an EIR on its own. Accordingly, Task Order 10 will include funding for the further refinement and documentation of the FMS and modified FMS, coordination with internal and external organizations, parties and other Water Forum consultants, and the potential development of new alternatives in collaboration with potential project partners. Task Order 10 is intended to supersede all previous HDR task orders; any remaining funding on task orders

approved prior to Task Order 10 under the current contract will be de-obligated and considered no longer available upon execution of Task Order 10.

HDR Contact Information:

Paul Bratovich, Jeffrey Weaver, or Adrian Pitts

2365 Iron Point Road, Suite 300

Folsom, CA 95630

Phone: (916) 817-4700

Fax: (916) 817-4747

Paul.Bratovich@hdrinc.com

Jeffrey.Weaver@hdrinc.com

Adrian.Pitts@hdrinc.com

TASK ORDER 10 – Hydrological and Environmental Development and Analysis

Client Name: City of Sacramento, City-County Office of Metropolitan Water Planning

Project: Lower American River Flow Management Standard

Agreement: Professional Services Agreement for Design Services between the City of Sacramento and HDR Engineering, Inc., City Agreement No. 2009-0804, as amended.

Task Order Name: Task Order 10 – Hydrological and Environmental Development and Analysis

HDR Task Manager: Adrian Pitts and Jeffrey Weaver

Statement of Work and Schedule: As directed by the City Representative(s) under the above Agreement, HDR shall perform the following tasks as described below. The budget for these subtasks is provided in Table 2. The period of performance for Task Order 10 is through December 31, 2016.

Task 1 Coordination

The current phase of the Water Forum FMS will involve much coordination with parties both internal and external to the Water Forum. Under Task 1, HDR will provide support for Water Forum coordination activities in three separate arenas: (1) Stakeholder outreach; (2) Engagement with potential partners; and (3) Technical team meetings. These three activities are further described below.

Activity 1.1: Stakeholder Outreach.

Under Activity 1.1, HDR will support the Water Forum in stakeholder outreach activities. These activities will primarily include face-to-face meetings, but could also include conference calls. Potential audiences for the Stakeholder Outreach activity include Water Forum members and potentially-affected parties, such as Central Valley Project (CVP) water service contractors south of the Delta.

Activity 1.2: Engagement with Potential Partners

There are numerous ongoing public activities associated with, or potentially affecting, the lower American River. These activities include the SWRCB's Phase 4 (Development of Flow Objectives), the California Department of Water Resources (DWR) California WaterFix, and

Reclamation's Sacramento-San Joaquin Rivers Basin Study. The Water Forum's modified FMS could be included in any (or all) of these efforts, and could be included with the environmental documentation for the effort. Under Activity 1.2, HDR would support the Water Forum's coordination efforts with other efforts and identify opportunities for inclusion of the modified FMS in the appropriate proposed project/actions.

Activity 1.3: Technical Team Meetings

Under Activity 1.3, HDR will continue to prepare for, attend, and follow-up meetings with Water Forum consultants as part of the Technical Team. Preparation for the meetings could include preparing and reviewing model output and data summaries, preparing biological materials, and coordination with other consultants. Meetings are expected to occur every other week for four hours each, and will focus on technical aspects of the FMS and its alternatives and ensuring the modeling representation appropriately characterizes the intended operations and resulting conditions. Follow-up activities could include research or providing information as needed as a result of questions or direction at technical team meetings.

Task 2 Alternatives Refinement and Documentation

While the 2006 FMS and Modified FMS have been designed and modeled at a high level, additional refinement and several permutations of the alternatives, and potentially one additional scenario are needed. Under this task, HDR will continue the development of the Modified FMS and several alternatives, and then develop those scenarios into various other hydrologic schema, including an existing level of development, and a climate change scenario. Additionally, HDR will provide modeling and analytical support beyond the operational representation of the scenario to assess potential effects on other resource areas. These additional support tasks are further described below.

Activity 2.1: Refine Future Level of Development Modified FMS, High Flow, and 2006 FMS Alternatives

While the Modified FMS has been conceptually developed, there remain areas for improvement or further review, including pulse flows, redd dewatering, Sacramento River temperature-related mortality, and American River water temperature-related effects. Additionally, the Water Forum has indicated the desire for the development and refinement of a High Flow Alternative to demonstrate to the SWRCB potential effects associated with higher reservoir releases in the spring. Associated refinement may be necessary to finalize the Calsim-II representations of the Modified FMS alternatives, and if applicable, the 2006 FMS. Refinement of alternatives will also include running of the Sacramento River Water Quality Model (SRWQM), redd dewatering, WUA analysis, and post-processing and presenting the results.

Deliverable: DSS outputs from Calsim-II and SRWQM for the Modified FMS, High Flow alternative, and 2006 FMS, along with standard Excel output summary.

Activity 2.2: Develop Existing Levels of Development for the 2006 FMS and Modified FMS Alternatives

HDR will incorporate the Calsim-II modifications developed for the Future LOD alternatives into the Existing LOD Calsim-II scenario provided by Reclamation in April 2014. Additionally,

existing LOD model input data provided by Placer County Water Agency (PCWA) representing their existing level of development operations, and their estimation of SMUD's Upper American River Project (UARP) operations will be incorporated. Completion of these alternatives will also include running of SRWQM, redd dewatering analysis, WUA analysis, and post-processing of output using existing post-processing tools.

Deliverable: DSS outputs from Calsim-II and SRWQM for both the Modified FMS and 2006 FMS, along with standard Excel output summary. Excel spreadsheets comparing WUA and redd dewatering for fall-run Chinook salmon and steelhead.

Activity 2.3: Develop Climate Change Scenarios for the 2006 FMS and Modified FMS Alternatives.

A climate change scenario is needed for both CEQA purposes and to satisfy several Water Forum stakeholders about the robustness of the Water Forum preferred alternative. HDR will develop climate change scenarios using input hydrology and demands from DWR's 2013 DRR climate change scenario, and the remainder of the Future LOD scenarios for the 2006 FMS and Modified FMS alternatives. SRWQM will be run for both scenarios, using the appropriate climatological input data, as already included with the SRWQM provided by Reclamation. Similarly, output from Calsim-II, SRWQM, redd dewatering analysis, and WUA analysis will be post-processed and presented using existing post-processing tools.

Deliverable: DSS outputs from Calsim-II and SRWQM for both the Modified FMS and 2006 FMS, along with standard Excel output summary. Excel spreadsheets comparing WUA and redd dewatering for fall-run Chinook salmon and steelhead.

Activity 2.4: Develop Complete Model Output Set for 2006 FMS and Modified FMS Alternatives

In anticipation of responding to scrutiny of the Modified FMS alternative, HDR will produce sets of monthly model output using HDR's Graphical and Tabular Analysis for Environmental Reports (GATAER) tool with comparisons of the respective future level of development and climate change scenarios of the 2006 FMS and Modified FMS. The output will be digitally assembled and collated for easy reference and use when demonstrating the benefits of the Modified FMS alternative relative to the 2006 FMS.

Deliverable: Digital acrobat pdf of output comparisons for 2006 FMS vs Modified FMS under both future level of development and climate change hydrologies.

Activity 2.5: Develop Technical Memoranda

HDR will prepare several technical memorandum documenting work for the development and evaluation of the 2006 FMS and alternative. HDR's technical memorandum include:

- (1) Description of several elements of the Modified FMS Project Description, including the methodology used to both compute and apply the seasonal release allocation, the

rationale and application of the spring pulse flow, and the methodology and assumptions used to forecast operations under the proposed Modified FMS. These descriptions will be part of a larger Modified FMS Project Description.

- (2) Calsim-II Technical Memorandum. The technical memorandum (TM) will describe the development and modifications made to Calsim-II, relative to the California Department of Water Resources (DWR) 2013 Delivery Reliability Report (DRR) Calsim-II modeling. The documentation will include a description of the demands used in the Water Forum modeling, the representation of the 2006 FMS, the representation of the Modified FMS, the representation of other alternatives, and refinements made to Calsim-II external to the American River representation for both the existing and future levels of development. The model technical memorandum will also describe the process and assumptions used for the redd dewatering and WUA analysis.
- (3) Lower American River Mortality Model. The TM will describe the development and modifications made to Reclamation's mortality model, including updating: temperature-mortality relationships, the temporal and spatial spawning distribution curves, and revising the model to consider daily flow and temperature information.
- (4) Lower American River Spawning Habitat Model. The TM will describe the development of the model used to compute the Flow - Weighted-Usable Area (WUA) relationship based on Calsim-II model output, including the spatial and temporal distribution of spawning for both fall-run Chinook salmon and steelhead.
- (5) Lower American River Redd Dewatering Model. The TM will describe the development of the redd dewatering analysis tool. The document will describe assumptions about the temporal and spatial distribution of redds, as well as a description of assumptions regarding effects of flow reductions on redds.
- (6) Sacramento River Water Quality Model. The assumptions and usage of Reclamation's SRWQM. This description will be part of a water temperature modeling TM describing all of the water temperature models used for analysis.
- (7) Fishery-Related Effects Assessment Methodology. The TM will describe the assumptions and analytical approaches used to evaluate effects of the proposed project and alternatives on fall-run Chinook salmon and steelhead in the lower American River, relative to the bases of comparison (existing or future level of development 2006 FMS).
- (8) Water Supply and Power Effects Assessment Methodology. The TM will describe the assumptions and analytical approaches used to evaluate effects of the proposed project and alternatives on water supply and hydroelectric power generation relative to the bases of comparison (existing or future level of development 2006 FMS).

Deliverable: Eight Technical Memoranda or portions of technical memoranda describing process and assumptions used to develop, simulate, and analyze the 2006 FMS and Modified FMS scenarios under existing and future levels of development and climate change.

Task 3: New Alternatives Developed With Potential Project Partners

Through the various processes described in Activity 1.2, there will potentially be a substantial amount of coordination with potential project partners about alternatives examined in environmental documentation. Project partners may want to reassure themselves that the Modified FMS appropriately balances use of resources, or they may want to pursue very different alternatives all together. Activities for the refinement of existing alternatives and development of new alternatives are described below.

Activity 3.1: Refinement of Existing Alternatives

Potential partners may disagree with some of the Water Forum's assumptions, or may need additional logic to represent their specific interests. Under this activity, HDR will refine the representation of scenarios in Calsim-II previously developed by the Water Forum at the direction of project partners. HDR intends that meetings regarding refinement of existing alternatives be covered by Activity 1.3, however this activity could include coordination with technical staff to ensure consistent assumptions with other modeling activities, concurrence regarding modeling implementation, and to ensure the model output represents the project partner's intents.

Deliverable: DSS outputs from Calsim-II for both the revised Modified FMS and 2006 FMS, along with standard Excel output summary.

Activity 3.2: Development of New Alternatives

Under this activity, HDR will coordinate with Water Forum consultants and project partners to develop as many as six new alternatives in Calsim-II. Development of alternatives may include data collection, analysis of data to identify new indices, development of new flow requirements, implementation in CalSim-II, review of model output, and revision to the model representation. HDR intends that meetings regarding these new alternatives be covered by Activity 1.3, however this activity could include coordination with technical staff to ensure consistent assumptions with other modeling activities.

Deliverable: DSS outputs from Calsim-II for the each of the new alternatives (as they are developed), along with standard Excel output summary.

Activity 3.3: Additional Modeling Support

Under this activity, HDR will provide additional modeling and technical support in the form of running SRWQM, WUA analysis, or redd dewatering analysis. Application of these tools shall be limited to either refinements of existing alternatives, as modified by project partners, or new alternatives developed in collaboration with project partners. Model and analytical tool output shall be presented using post-processors previously developed for the Water Forum.

Deliverable: DSS outputs SRWQM for each of the new alternatives, along with standard Excel output summary. Excel spreadsheets comparing WUA and redd dewatering for fall-run Chinook salmon and Steelhead, comparing each new scenario with the 2006 FMS.

Task 4 Task Order Management

HDR's Project Manager will oversee the management of Task Order 10. These activities include management of the project staffing, scope, budget, and schedule as specified in the task order. It is assumed that the Project Manager and Project Controller will provide up to 2 hours of effort each per month, and the Project Principal will provide up to one hour per month. In addition, this task includes coordination with the Water Forum's Program Manager and accounting staff.

HDR will provide the Water Forum with the following:

- Monthly Project Status Reports
- Monthly Invoices

Included in these activities will be confirmation of billing codes and identification of the level of detail required to support all invoices (e.g., level of detail in work activity descriptions by all staff members, expense report receipts, etc.).

Task Management: Adrian Pitts will serve as HDR's Task Manager for this task order.

Task Authorization: This task order will be authorized upon full execution by both the Water Forum and HDR signatories. However, the funding for each task will be explicitly directed by the Water Forum's Program Manager; due to uncertainties in potential project partners and their possible directions for the project, the Program Manager may wish to incrementally fund individual tasks or activities on a case-by-case basis. HDR will not accrue charges under any individual task or sub-task unless authorization is explicitly provided by the Program Manager.

Invoice Preparation and Payment: Activities associated with monthly invoice preparation will be provided by the HDR Folsom Office. Invoices associated with services provided will be addressed to:

Tom Gohring, Executive Director
City-County Office of Metropolitan Water Planning
Water Forum
2831 G Street, Suite 100
Sacramento, California 95816

Payment for HDR's professional services provided in support of the FMS EIR shall be directed to HDR at the address shown below.

HDR Engineering, Inc.
PO Box 3480
Omaha, NE 68103-0480

Table 1. Budget Summary for Task Order 10		
Task No.	Task Description	Budget
1	Coordination	\$336,108
1.1	Stakeholder Outreach	\$38,972
1.2	Engagement with Potential Partners	\$130,072
1.3	Technical Team Meetings	\$167,064
2	Alternatives Refinement and Documentation	\$307,287
2.1	Refine Future Level of Development Modified FMS and 2006 FMS Alternatives	\$82,285
2.2	Develop Existing Levels of Development for the 2006 FMS and Modified FMS Alternatives	\$39,945
2.3	Develop Climate Change Scenarios for the 2006 FMS and Modified FMS Alternatives	\$52,241
2.4	Develop Complete Model Output Set for 2006 FMS and Modified FMS Alternatives	\$7,648
2.5	Develop Model Technical Memorandum	\$125,168
3	New Alternatives Developed with Potential Project Partners	\$138,767
3.1	Refinement of Existing Alternatives	\$17,536
3.2	Development of New Alternatives	\$97,524
3.3	Additional Modeling Support	\$23,707
4	Task Order Management	\$17,960
Task Order 10 Total		\$800,123

Table 2. Labor Categories and Hourly Billing Rates for Task Order 10	
Labor Category	Hourly Billing Rate
Principal Scientist/Engineer II	\$265
Principal Scientist/Engineer	\$250
Senior Technical Specialist II	\$225
Senior Technical Specialist	\$200
Senior Engineer/Scientist/Planner	\$180
Associate Engineer/Scientist/Planner II	\$160
Associate Engineer/Scientist/Planner	\$140
Engineer/Scientist/Planner	\$120
GIS Technician/CAD Operator/Graphics	\$110
Administrative/Word Processing/Intern	\$80-120



CERTIFICATE OF LIABILITY INSURANCE

6/1/2016

DATE (MM/DD/YYYY)

9/25/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL ADDRESS:	FAX (A/C, No):	
	INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED 1013472 HDR ENGINEERING, INC. 8404 INDIAN HILLS DRIVE OMAHA, NE 68114-4049	INSURER A: Hartford Fire Insurance Company		19682
	INSURER B: Travelers Property Casualty Co of America		25674
	INSURER C: American Zurich Insurance Company		40142
	INSURER D: Lexington Insurance Company		19437
	INSURER E:		
	INSURER F:		

COVERAGES HDRIN01 **CERTIFICATE NUMBER:** 13685929 **REVISION NUMBER:** XXXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	Y	Y	37CSEQU0950	6/1/2015	6/1/2016	EACH OCCURRENCE	\$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000
							MED EXP (Any one person)	\$ 10,000
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
								\$
A A A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	N	N	37CSEQU0951 (AOS) 37CSEQU0952 (HI) 37CSEQU1160 (MA)	6/1/2015 6/1/2015 6/1/2015	6/1/2016 6/1/2016 6/1/2016	COMBINED SINGLE LIMIT (Ea accident)	\$ 2,000,000
							BODILY INJURY (Per person)	\$ XXXXXXXX
							BODILY INJURY (Per accident)	\$ XXXXXXXX
							PROPERTY DAMAGE (Per accident)	\$ XXXXXXXX
								\$ XXXXXXXX
B B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$	N	N	ZUP-10R64084-15-NF (EXCLUDES PROF LIAB)	6/1/2015	6/1/2016	EACH OCCURRENCE	\$ 1,000,000
							AGGREGATE	\$ 1,000,000
								\$ XXXXXXXX
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	0381127	7/1/2015	7/1/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
							E.L. EACH ACCIDENT	\$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
D	ARCHS & ENGS PROFESSIONAL LIABILITY	N	N	061853691	6/1/2015	6/1/2016	PER CLAIM: \$1,000,000	AGGREGATE: \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 DESIGN SERVICES FOR THE LOWER AMERICAN RIVER FLOW MANAGEMENT STANDARD HYDROLOGICAL AND ENVIRONMENTAL DEVELOPMENT AND ANALYSIS. CITY OF SACRAMENTO, CITY-COUNTY OFFICE OF METROPOLITAN WATER PLANNING AND ITS AGENTS ARE NAMED AS ADDITIONAL INSURED ON GENERAL LIABILITY AS PER WRITTEN CONTRACT, ON A PRIMARY, NON-CONTRIBUTORY BASIS. WAIVER OF SUBROGATION APPLIES WHERE ALLOWABLE BY LAW.

CERTIFICATE HOLDER**CANCELLATION** See Attachment

13685929
 CITY OF SACRAMENTO
 ATTN: KATHY HOWARD
 2831 G STREET
 SUITE 100
 SACRAMENTO CA 95816

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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POLICY NUMBER: 37CSEQU0950

COMMERCIAL GENERAL LIABILITY
CG 20 10 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED --- OWNERS, LESSEES OR
CONTRACTORS -- SCHEDULED PERSON OR
ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization:

AS PER WRITTEN CONTRACT, ON A PRIMARY, NON-CONTRIBUTORY BASIS

(Information required to complete this Schedule, if not shown above, will be shown in the Declarations.)

A. Section II - Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

CG 20 10 07 04

POLICY NUMBER: 37CSEQU0950
LIABILITY

COMMERCIAL GENERAL
CG 20 37 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED - OWNERS, LESSEES OR CONTRACTORS
COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization:

ANY PERSON OR ORGANIZATION WITH WHOM YOU HAVE AGREED, THROUGH WRITTEN CONTRACT, AGREEMENT OR PERMIT, EXECUTED PRIOR TO THE LOSS, TO PROVIDE ADDITIONAL INSURED COVERAGE FOR COMPLETED OPERATIONS.

Location And Description of Completed Operations:

ANY LOCATION WHERE YOU HAVE AGREED, THROUGH WRITTEN CONTRACT, AGREEMENT OR PERMIT, EXECUTED PRIOR TO THE LOSS, TO PROVIDE ADDITIONAL INSURED COVERAGE FOR COMPLETED OPERATIONS.

Information required to complete this Schedule, if not shown above will be shown in the Declarations.

Section II - Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

CG 20 37 07 04