

# County Of Sonoma Agenda Item Summary Report

Clerk of the Board Use Only

Meeting Date

Held Until

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Agenda Item No:

Agenda Item No:

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**Department:** Sonoma County Water Agency

**4/5 Vote Not Required**

**Contact:**  
Jay Jasperse

**Phone:**  
(707) 547-1959

**Board Date:**  
9/1/2009

**Deadline for Board Action:**

**AGENDA SHORT TITLE:**

First Amended Agreement to Provide Services for Mobilization Phase for Next Generation Integrated Management Systems.

**REQUESTED BOARD ACTION:**

Authorize the Agency's General Manager/Chief Engineer to execute the First Amended Agreement to Provide Services for Mobilization Phase for Next Generation Integrated Management Systems between the Sonoma County Water Agency and International Business Machines Corporation (\$110,000) in substantially the form as the draft presented to this Board, following review and approval by County Counsel as to form and by Risk Management as to insurance requirements.

Authorize the Agency's General Manager/Chief Engineer to further amend the Agreement, if necessary, provided subsequent amendments do not cumulatively increase the total cost to the Agency by more than \$25,000 (taking into account all prior amendments) and do not substantially change the scope of work.

**CURRENT FISCAL YEAR FINANCIAL IMPACT**

**EXPENDITURES:**

**ADDITIONAL FUNDS REQUIRING BOARD APPROVAL:**

<b>Estimated Cost</b>	<b>\$110,000</b>	<b>Contingencies (Fund Name:)</b>	<b>\$0</b>
<b>Amount Budgeted</b>	<b>\$110,000</b>	<b>Unanticipated Revenue (Source:)</b>	<b>\$0</b>
<b>Other Available Appropriations (Explain Below)</b>	<b>\$0</b>	<b>Other Transfers (Source:)</b>	<b>\$0</b>
<b>Additional Requested</b>	<b>\$0</b>	<b>Additional Funds Requested</b>	<b>\$0</b>

**Explanation (if required):** Funding is available from appropriation in the FY 09/10 budget for the Fund entitled Russian River Projects Fund (Account No. 674515-6570).

**Prior Board Action:** None.

**Alternatives – Results of Non-Approval:** None.

## **Background:**

### **HISTORY OF ITEM**

On April 9, 2009, the Sonoma County Water Agency (Agency) presented a Board workshop entitled, "A Review of Water Supply and Resource Management in Sonoma County," which included 12 recommended strategies to address challenges and shape water supply planning and decisions about projects to meet future demand. One of the recommended strategies was overcoming organizational fragmentation to promote efficiency of operations and planning, which includes pursuing development of a comprehensive data management platform.

The compilation of different data sets into one platform to facilitate utilization of data for system operations and water supply planning will provide benefits to the Agency, its retail customers, and other water users in terms of efficiencies and cost savings. For example, one of the initial phases of the project is to connect the monitoring capabilities (not the operational control) of the Agency's transmission system and its water contractors' distribution systems. These water transmission and distributions systems are physically connected; however, there is currently little exchange of information regarding the status of each system (e.g., level of storage, local water production, system pressures, etc.). If these systems were monitored as one system with several connected components through a greater exchange of information, the Agency will realize several benefits, including increased water efficiency, energy efficiency, and possibly lower costs. This will be especially important during the next several summers when constraints on the Agency's Russian River water supply operations are expected. The scope of work included in the amended agreement will develop the architecture, design, and business case for the connection of these systems. The actual implementation of this design would require additional funding by the Agency, its water contractors, or through grant funding sources. In addition, the Agency's planning, environmental, and reporting functions will benefit by having access to a more accessible, robust database, and will improve the analytical capabilities of the Agency.

On June 10, 2009, the Agency and International Business Machines Corporation (I.B.M.) entered into an agreement for the first portion of this work, the Mobilization Phase, in the amount of \$24,950. I.B.M. was retained to create an information technology "collaboration platform" for the Agency and its contractors. The idea is to provide the transparency and symmetry of information to promote closer coordination in water supply system operations and planning.

This First Amended Agreement expands the scope of work to include the Foundation Phase of the system (additional 12 weeks) and increases the Agreement amount by \$110,000. The purpose of this phase is to create the "blueprint" - the high level designs for the systems - that will form the collaboration platform, the design for how existing data and systems will be incorporated, and the business case and implementation plan that will, over several years, achieve the completed platform. Work so far undertaken is an initial introductory set of meetings with contractors and with key Agency staff (for which Agency will not be charged). These activities are designed to set the scene and explain the work that is proposed. I.B.M. has spoken to all Technical Advisory Committee members except one (the missing one is arranged for later this month) and some Water Advisory Committee (W.A.C.) members. I.B.M. ultimately intends to speak with all W.A.C. members.

Additions to the scope of work under the First Amended Agreement consist of documenting stakeholder interview findings, developing an overall requirements statement, developing a system architecture preliminary design, conducting a cost-benefit assessment and developing a business case, and preparing a phased implementation plan.

In addition to Agency funding, I.B.M. will provide in-kind services, incorporated in the scope of work, having a value not to exceed \$145,000.

**SELECTION PROCESS**

I.B.M. was the only firm contacted and was selected to perform the work.

I.B.M. is well known as the world’s leading provider of information systems, and has an extensive track record of sensor networking, modeling, analytics, and using advanced information technology to enable collaboration between multiple agencies in the energy and water industries, both in the U.S. and overseas. One recent example of their work is "Smart Bay," a "collaboration platform" for the many stake-holders in Galway Bay, Ireland, serving each of them with their own selection of real-time sensor data, weather forecast information, and the like, from a common database. Another is the River and Estuary Observation Network (R.E.O.N.) being built on the Hudson River in New York: 315 miles of the river are being networked with sensors mounted on buoys and autonomous under-water vehicles (A.U.V.), to create a real-time picture of multiple dimensions of water quality in the river. Around the world, I.B.M. is also involved in such activities as "smart levees" that can report their own condition, and creating tools to guide and monitor agricultural water use. This project would be a pilot program for I.B.M. on the West Coast of the United States.

**TERMINATION**

The Agreement includes provisions for the Agency's General Manager/Chief Engineer to terminate the Agreement.

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**Attachments:** None.

**On File With Clerk:** Amended Agreement (one copy), "Working Copy" of Amended Agreement showing changes (one copy).

**CLERK OF THE BOARD USE ONLY**

**Board Action (If other than "Requested")**

**Vote:**