

APPROVED  
By the Board of Directors of  
The Metropolitan Water District  
of Southern California  
at its meeting held

SEP 12 1995



**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

*Karen E. Duff* 7-6  
EXECUTIVE SECRETARY

August 29, 1995

**To:** Board of Directors (Water Planning and Resources Committee--Action)  
(Organization & Personnel Committee--Action)

**From:** General Manager

**Subject:** Authorize General Manager to Enter into an Agreement for Phase I of the Bay-Delta Resources Database Program

**Recommendations:**

It is recommended that your Board authorize the General Manager to enter into an agreement, in the form approved by the General Counsel and in accordance with the Request for Proposals No. 155 with Aerial Information Systems, Inc., in an amount not to exceed \$250,000 to provide services that will support Phase I of the Bay-Delta Resources Database Program. It is also recommended that the General Manager be authorized to execute contract amendments within this cost ceiling providing for changes in scope and required personnel.

John R. Wodraska  
General Manager

Submitted by:

*Debra C. Man*

Debra C. Man, Chief  
Planning and Resources

Concur:

*John R. Wodraska*

John R. Wodraska  
General Manager

for

Attachments

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for

**EXECUTIVE SUMMARY:**

Request for Proposals No. 155 solicited proposals for providing computer consulting expertise to support Phase I of the Bay-Delta Resources Database Program. This Program is a collaborative effort among State and federal regulatory agencies as well as several urban and agricultural agencies to consolidate existing fragmented databases presently located within several resource agencies. This consolidated database will support Metropolitan's efforts in the following regulatory activities: Endangered Species Act (ESA) issues; State Water Resources Control Board Water Rights Hearing process; December 1994 Bay-Delta Accord implementation; and CALFED's long-term management plan development.

The General Manager has developed an Issue Management Plan to coordinate the increased workload associated with the consolidated database program and other Bay/Delta regulatory activities. The staffing strategy detailed in the Management Plan is to utilize the expertise of existing staff from various Metropolitan divisions and contract with outside consultants when required to supplement staff efforts.

Funds for the proposed \$250,000 Agreement are included in the Bay-Delta Branch's budget for fiscal year 1995-96 and are accounted for under the Tier 1 (1.6 million acre-feet) estimated water sales budget for fiscal year 1995-96. It is estimated that Metropolitan's contribution to the entire database development effort (including subsequent phases) through fiscal year 1997 will be approximately \$540,000.

<p><b><u>CONTRACT TYPE</u></b></p> <p><input checked="" type="checkbox"/> NEW  <input type="checkbox"/> AMENDED</p> <p><b><u>CONTRACT FORM</u></b></p> <p><input type="checkbox"/> LEASE  <input checked="" type="checkbox"/> PROFESSIONAL SERVICES</p>	<p><b><u>FUNDING</u></b></p> <p><input type="checkbox"/> CAPITAL  <input checked="" type="checkbox"/> O &amp; M</p> <p><b><u>BUDGET STATUS</u></b></p> <p><input checked="" type="checkbox"/> FY 95/96 AMT \$250,000  <input type="checkbox"/> OUT-YEAR AMT  <input type="checkbox"/> NON-BUDGET AMT</p>	<p><b><u>TYPE OF COMPETITION</u></b></p> <p><input type="checkbox"/> RFQ  <input checked="" type="checkbox"/> RFP NO. <u>155</u>  <input type="checkbox"/> INFORMAL RFP  <input type="checkbox"/> OTHER COMPETITION  <input type="checkbox"/> SOLE SOURCE</p>
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**DETAILED REPORT:**

Request for Proposals No. 155 solicited proposals to provide computer consulting expertise to support Phase I of the Bay-Delta Resources Database Program. Proposals were received from six bidders. The bidder selected for recommendation is the team headed by Aerial Information Systems, Inc. (AIS). Attachment A provides the evaluation summary leading to this recommendation. AIS meets Metropolitan's pre-qualification criteria for Minority-Owned Business Enterprise and Women-Owned Business Enterprise participation (15 percent and 5 percent respectively).

The services AIS will provide include: analyzing end-user requirements; designing a relational database; designing Graphical User Interfaces (GUI's); and facilitating database access through the World-Wide Web of the Internet. AIS will interview prospective database users from a wide variety of organizations involved in Bay-Delta issues to determine the typical end user's requirements. These requirements will be analyzed in terms of the types of data and the level of functionality requested. AIS will then proceed to design a relational database to accommodate the collective user requirements. Once an acceptable database has been developed, AIS will program GUIs to create a user-friendly computer environment. These GUIs will enable users with only basic computer skills to effectively access and use the database's resources. Once the database design and development are complete, AIS will address issues to make the database available through the World-Wide Web of the Internet.

Metropolitan's database effort is a part of a statewide Bay-Delta Resources Database Program. Participants of this Program include members of the California Urban Water Agencies (CUWA), including Metropolitan, and certain Interagency Ecological Program (IEP) agencies. Participating agencies will contribute to this Program with direct funding, sharing of hardware and software development, and collecting data to populate the database. All parties involved in Bay-Delta issues will benefit. The primary beneficiaries include State and federal resource agencies, CUWA, agricultural interests, environmental interests, and others in the water community dependent on water from the Bay-Delta watershed.

The database will provide a key decision-support tool for evaluating alternative Bay-Delta solutions by providing Bay-Delta decision makers with centralized access to a wide range of scientific data sets that are currently available only in fragmented fashion. These include hydrodynamic, climatological, biological, and engineering data sets, among others. Typically, these data are collected and stored by federal, State, and local agencies on their own computer systems. The database will significantly reduce costs in terms of time and money (staff time and consulting fees) required to locate needed information by integrating data sets and making them available to interested parties via the Internet. As teams of biologists, engineers, and other scientists throughout California continue their efforts to identify trends and relationships from the collected data, the database will play an important role in crafting the regulatory balance needed for a long-term solution to Bay-Delta problems by enabling scientists and support staff to better provide management with effective technical support.

In addition to aiding CALFED and IEP efforts, the database will support activities that are being pursued to meet Metropolitan's resource planning goals of ensuring a more reliable, high quality supply of water from the Bay-Delta. These activities include:

- Endangered Species Act Issues: The database will play an important role in centralizing the results of various sampling and measurement efforts concerning endangered species and species of concern. Such data, including the results of daily biological sampling activities, climatological data, and other measurements, are routinely collected by a large number of agencies. Improved access to such data will provide enhanced opportunities to respond with comprehensive analysis to regulatory actions taken pursuant to the State and Federal ESAs.
- Real-Time Monitoring Program: The December 1994 Accord commits to using real-time monitoring to make decisions regarding operational flexibility of Bay-Delta facilities. A recently completed, two-month-long Real-Time Monitoring Pilot Program demonstrated the ability to more effectively operate the water projects to minimize environmental impacts. The database will provide an accessible mechanism to store and analyze real-time data in a timely manner.
- State Water Resources Control Board (SWRCB) Water Rights Hearing Process: The SWRCB's recent adoption of a Bay-Delta Water Quality Control Plan initiated the process of amending the water rights permits of diverters of Bay-Delta water. It is anticipated that the database could serve as a useful repository of water rights data.

The proposed contract represents Metropolitan's Phase I contribution for a collaborative effort among several urban and agricultural water agencies to integrate and manage Bay-Delta scientific data. Funding for this \$250,000 contract is included in the Bay-Delta Branch's budget for fiscal year 1995-96 and is accounted for under the Tier 1 estimated water sales (1.6 million acre-feet) budget for fiscal year 1995-96. It is estimated that Metropolitan's contribution to the database development effort (including subsequent phases) through fiscal year 1997 will be approximately \$540,000.

The General Manager has developed an Issue Management Plan to coordinate the increased workload associated with the consolidated database program and other regulatory activities in the Bay-Delta. The staffing strategy detailed in the Management Plan is to utilize the expertise of existing staff from various Metropolitan Divisions and contract with outside consultants when required to supplement staff efforts.

**Minority-Owned Business Enterprise and Women-Owned Business Enterprise (MBE/WBE):**

The Request for Proposals established MBE/WBE participation goals of 15 percent MBE and 5 percent WBE. The recommended bidder, Aerial Information System, Inc., meets Metropolitan's pre-qualification criteria for MBE/WBE participation (15 percent and 5 percent respectively).

**RFP STATISTICS**

- FIRMS REQUESTED RFP: 6
- FIRMS SUBMITTED PROPOSALS: 6
- FIRMS WERE SHORT-LISTED: N/A

**CONTRACTS WITH CONSULTANT**

- TOTAL NO.: 3
- MAXIMUM DOLLAR AMT.: \$213,250

**EVALUATION CRITERIA**

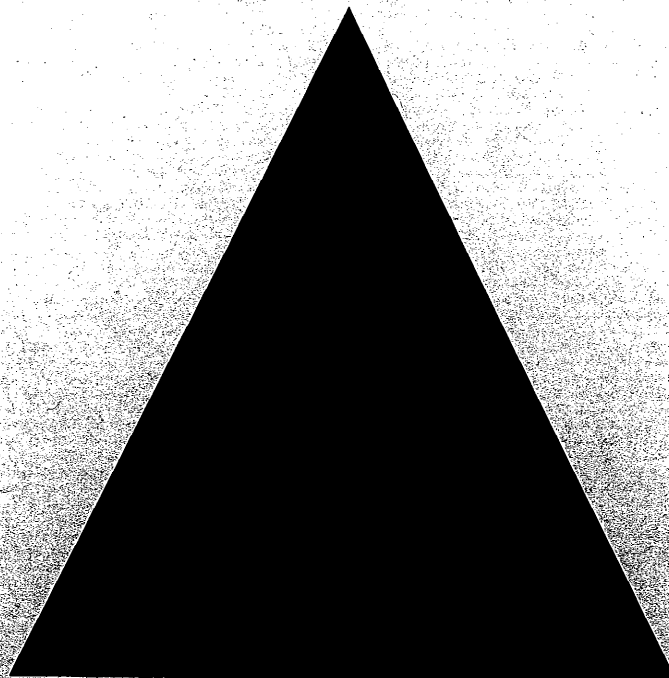
PLEASE SEE ATTACHMENT A.

**CONTRACTUAL DETAILS**

- ANTICIPATED DURATION: 1 YEAR
- HOURLY RATES: \$45 - \$120

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