

# Agenda Report

DATE: January 6, 2003

TO: City Council

FROM: City Manager

SUBJECT: Authorization to enter into contract with Montgomery Watson Harza for consulting services for needs assessment, specification development and implementation planning of Phase II of the Geographic Information System (GIS)

## RECOMMENDATION

It is recommended that City Council:

Authorize the City Manager to enter into a contract with Montgomery Watson Harza for the amount not to exceed \$329,500.00, for consulting services for Phase II of GIS Development, Implementation and Integration Plans Project.

## EXECUTIVE SUMMARY

Phase I, completed in May of 2002, included the development of digital orthophotography, the City's digital landbase, and *iMAP*, a web based application used by all City staff. Phase II consists of the conversion of the utility infrastructure data which will use the landbase digital data as the foundation, GIS application development specific to PWP needs, and integration of existing applications within PWP and the City.

## BACKGROUND

The Phase II portion of the project has been divided into three components. The first component of Phase II is Project A, in which this report recommends action. This project focuses on the development of plans and specifications needed to successfully conduct the application development, data conversion, and systems integration. Project A will produce detailed documentation regarding the current business processes, confirmation of new processes needed, identify applications for development, and creation of detailed specifications for utility data conversion including acceptance criteria for the converted data, quality control plans, and staffing requirements. The second and third components of Phase II are Project B, the actual conversion of the utility

infrastructure and Project C, the development of the applications identified in Project A, which will take place in Fiscal Year 2004.

In 1994, a GIS Needs Assessment Study was conducted which provided financial and functional justification to proceed with an enterprise-wide GIS implementation. This report was reviewed and updated in 1999. The report recommended the following project phases of the Enterprise GIS project:

Phase I	Development of the Core City GIS data layers—Digital Orthophotography and Land Base
Phase II	Conversion of the Utility Infrastructure Data, application development and systems integration
Phase III	Application Development—Expand GIS functionality and availability to the City staff and public

Using the report as a guide, the City initiated and completed Phase I of the GIS in which Public Works & Transportation, Planning & Development, and Water and Power (PWP) implemented an integrated Enterprise-wide GIS.

In July of 2002, the City moved forward with Phase III with the GIS Application Analysis Project which identified priority applications for development. The initial portion of Phase III re-evaluated previously identified application needs and confirmed the application requirements among all City departments except for PWP.

Phase II of the City's GIS deployment includes requirements analysis, system design, and implementation planning for the PWP. This effort focuses specifically on Water and Power needs and is parallel to efforts implemented by other departments in the Phase III. GIS development efforts for Water and Power are expected to integrate with the City enterprise GIS approach and may reveal application and information needs common to the needs expressed by other.

The three components of Phase II are:

- Project A**     Services for GIS Development, System Implementation and System Integration Plans
- Project B**     Water and Power Divisions Utility Data Conversion
- Project C**     Water and Power Divisions Application Development

#### **Project A**

Montgomery Watson Harza, a GIS consulting firm, has been selected to evaluate current processes, perform the application needs assessment through business unit interviews, identify potential applications, assist in the selection of ten priority applications for development, develop detailed application designs, requisite data assessment, data conversion specifications, systems implementation, system

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integration and tactical action plan which includes staffing requirements and recommendations for both the Water and Power divisions. This project focuses on the planning and specifications needed prior to the actual application development and utility data conversion projects discussed in Projects B and C.

Five firms responded to the RFP for Project A and were evaluated using the criteria set forth in the RFP, in accordance with the City's competitive selection process for professional services. An evaluation matrix is appended to the Report as Exhibit A. The total points scored for the highest three firms are as follows:


Montgomery Watson Harza: 555  
Environmental Systems Research Institute: 466  
PSOMAS: 417

It is recommended that Montgomery Watson Harza, the firm receiving the highest total points from the evaluation team, be awarded the contract.

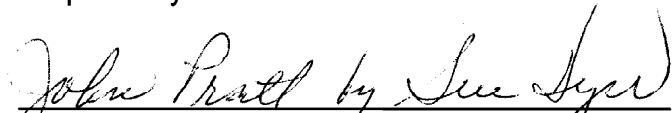
#### **FISCAL IMPACT**

Funds for this project are available in the Water and Power Capital Improvement Project, 3005 and 1009. The account numbers are as follows: 50% 8115-401-843000 0396-03-20808 and 50% 8115-402-881000-0679-03-02051.

Respectfully submitted,

  
CYNTHIA J. KURTZ  
City Manager

Prepared by:

  
John Pratt, Chief Information Technology Officer  
Information Technology Services Division

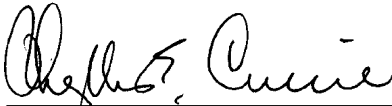
Approved:



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Jay M. Goldstone, Director  
Finance Department

Concurred by:



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Phyllis Currie, General Manager  
Pasadena Water & Power

Attachment

Exhibit A - Evaluation Matrix for the GIS Development, Implementation and Integration  
Plans proposals

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