

- **Board of Directors**
Engineering and Operations Committee

October 11, 2005 Board Meeting

8-6

Subject

Authorize consulting agreements for aerial photogrammetry and mapping services for capital and O&M projects

Description

Aerial photogrammetry and mapping services are a primary input to many engineering projects. These services produce maps and electronic computer models showing terrain features and topographic elevations that planners and designers use to create graphics and construction drawings. These services also enable surveyors and contractors to accurately locate facilities and property boundaries in the field. Aerial photogrammetry enables large areas, as well as difficult or inaccessible areas, to be mapped at a lower cost and in less time than conventional surveying methods. Aerial photogrammetry requires specialized equipment and expertise, which Metropolitan does not maintain in-house.

Within Metropolitan's planned capital and O&M workload in fiscal year 2005/06, many projects will require aerial photogrammetry, mapping and other land surveying services. The services are needed for planning studies, master plans, alignment studies, preliminary and final design, right-of-way engineering, property management, operation management of water supply programs, and property acquisition. The services will support planning-phase projects identified in the Distribution System Overview Study and major capital programs such as the Weymouth ORP, Diamond Valley Recreation, and the Conveyance & Distribution System Rehabilitation Program. Based on projected work from capital and O&M programs, the cost of these consulting services is estimated to range from \$3 to \$6 million over the next five years. Existing agreements are insufficient to meet the anticipated workload. Examples of projects which may require these services are listed in [Attachment 1](#).

Consequently, a competitive selection process was initiated to select aerial photogrammetry, mapping, and land surveying firms to support current and future project needs. RFP 741 was issued in May 2005 to obtain services for anticipated capital and O&M programs. Proposals were submitted by eight firms and staff recommends entering into on-call agreements with the four highest-scoring firms.

This action authorizes professional service agreements with Pomas, RBF Consulting, The Sanborn Map Company, Inc. and Towill, Inc. on an on-call basis for amounts not to exceed \$2 million per agreement over a five-year period. As project needs are defined, task-order proposals will be solicited from the firms and the proposal providing the best value to Metropolitan will be accepted. No work is guaranteed to the consultants under these agreements, and no work will be performed pursuant to these agreements unless the work has been previously authorized and funded by the Board.

This approach of contracting with multiple firms will enable Metropolitan to tailor work packages based on unique expertise and will increase competitiveness by enabling staff to solicit comparative proposals from multiple consultants for each work package. This approach also provides flexibility to Metropolitan by permitting faster responses to a changing workload. For these professional services agreements, Metropolitan has established a Small Business Enterprise participation goal of 20 percent. All firms have committed to meet this requirement.

No project authorization or funding are requested under this action. All work shall be authorized and funds appropriated under the individual capital or O&M programs.

Policy

Metropolitan Water District Administrative Code Section 8117: Professional and Technical Consultants

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action is not defined as a project under CEQA because it involves continuing administrative activities (Section 15378(b)(2) of the State CEQA Guidelines). In addition, the proposed action is not subject to CEQA because it involves other government fiscal activities, which do not involve any commitment to any specific project, which may result in a potentially significant physical impact on the environment (Section 15378(b)(4) of the State CEQA Guidelines).

The CEQA determination is: Determine that the proposed action is not subject to the provisions of CEQA pursuant to Sections 15378(b)(2) and 15378(b)(4) of the State CEQA Guidelines.

CEQA determination for Option #2:

None required

Board Options/Fiscal Impacts

Option #1

Adopt the CEQA determination and authorize agreements with Psomas, RBF Consulting, The Sanborn Map Company, Inc. and Towill Inc. for aerial photogrammetry and mapping services in an amount not to exceed \$2 million each.

Fiscal Impact: None. Funds are appropriated as part of the O&M budget or under individual capital programs.

Option #2

Do not authorize the agreements.

Fiscal Impact: None


Staff Recommendation

Option #1



Roy L. Wolfe
Manager, Corporate Resources

9/20/2005
Date



Dennis B. Underwood
CEO/General Manager

9/27/2005
Date

Attachment 1 – Example Projects

Example Projects for Aerial Photogrammetry and Mapping Services

Potential Projects	Estimated Cost
Cabazon Radial Gate Facilities Improvements	\$50,000
Capital Program for Projects costing less Than \$250,000 (\$10,000 per year for five years)	\$50,000
Chemical Containment Program Phase II - Storm Water and Spills Retention	\$30,000
Chlorine Containment and Handling Facilities - CUF Chlorine Containment Facilities	\$50,000
Conveyance and Distribution System Rehabilitation Program	
- OC Feeder Blowoff Structure Access and Rip Rap Repairs	\$10,000
- Cathodic Protection Projects	\$10,000
- St. John's Canyon Channel Erosion Mitigation	\$25,000
- West Valley Feeder No. 1 Access Roads and Structure Modifications	\$25,000
- Other C&D Rehabilitation Projects	\$50,000
CRA Conveyance Reliability Program - Fornat Wash Exposure Study	\$10,000
CRA Discharge Containment Program	\$20,000
CRA Pumping Plant Reliability Program - Gene Air Strip Extension Project	\$10,000
Dam Rehabilitation & Safety Improvements	\$100,000
Diemer ORP and Water Treatment Plant Improvements	\$250,000
Distribution System - Cross Connection Prevention Program	\$400,000
Jensen Water Treatment Plant Improvements Program	\$25,000
Lake Perris Flexible Storage Program	\$25,000
Mills Water Treatment Plant Improvements Program	\$40,000
O&M Dam Inundation Studies (e.g., Skinner FWR, etc.)	\$25,000
O&M Project Support (\$50,000 per year for five years)	\$250,000
Orange County Cross Feeder	\$75,000
Quarterly Construction Documentation Photography (\$20,000 per year for five years)	\$100,000
Reservoir Cover Replacement Program	\$50,000
Rialto Pipeline Improvements	\$50,000
San Diego Pipeline No. 6 (South Reach)	\$400,000
Skinner ORP, Expansion No. 4, and Improvement Programs	\$150,000
Weymouth ORP and Improvement Programs	\$250,000
Whitewater Siphon Protection	\$25,000
Allen McCollough Pipeline Repair - Modify All Engineering Drawings	\$250,000
Projects evolving from the System Overview Study, Facility Master Plan, etc.	\$1,000,000
Estimated Amount	\$3,805,000

Note: This partial list is based on capital and O&M projections over the next five years, including presently authorized work and potential future needs.