



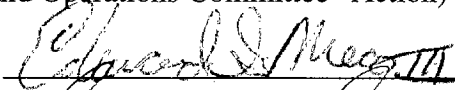
**MWD**

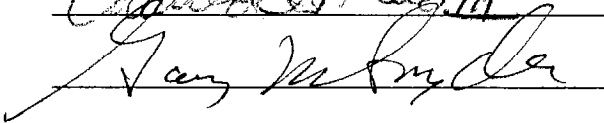
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

**8-6**

May 20, 1997

**To:** Board of Directors (Organization and Personnel Committee--Action)  
(Engineering and Operations Committee--Action)

**From:** General Manager 

**Submitted by:** Chief Engineer 

**Subject:** Authorization to Enter into Agreements for Geotechnical Services and Tunnel Design Services for the Lake Mathews Outlet Facilities Program

## RECOMMENDATIONS

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To support design activities for the Lake Mathews Outlet Facilities Program (LMOFP), it is recommended that your Board authorize the General Manager to:

- Enter into an agreement with Woodward-Clyde Consultants for geotechnical exploration and testing services in an amount not to exceed \$600,000; and
- Enter into an agreement with Jacobs Associates for tunnel design and geotechnical engineering services in an amount not to exceed \$1,500,000

## EXECUTIVE SUMMARY

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The Lake Mathews Outlet Facilities Program (LMOFP) was initiated to reduce the seismic vulnerability of the existing Lake Mathews outlet tower. Outside consulting services are needed to perform geotechnical exploration, collect geotechnical data, and provide tunnel design services for the LMOFP. The proposed consultants were selected through a competitive proposal process. This work is included in the LMOFP budget and funding is available under Appropriation No. 15277.

## JUSTIFICATION

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The workplan for the LMOFP calls for the utilization of an integrated team of staff and outside consultants to complete design. Consulting services were budgeted as part of the original implementation plan for this program. The consultants can provide highly specialized expertise in geotechnical engineering and tunnel design. The consultants,

Woodward-Clyde Consultants and Jacobs Associates, were selected through a competitive proposal process. Entering into these agreements is the most economical and practical option for accomplishing this work.

### **ALTERNATIVES TO PROPOSED ACTION**

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1) Have Metropolitan Provide All the Geotechnical and Tunnel Design Services

Metropolitan could hire specialized expertise and purchase or lease drilling and testing equipment to perform this work. However, this alternative is more costly than the proposed action, and would require Metropolitan to hire additional staff.

2) Do Not Award These Agreements

Metropolitan could re-evaluate the selection of consultants to perform this work. However, a competitive proposal process was used to select the best qualified and most cost effective consultants to perform this work. Since the RFP was widely advertised and responded to by many competent firms, reinitiation of the process would increase administrative costs and likely produce similar results.

### **ACTIONS AND MILESTONES**

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- Publish a geotechnical data report in November 1997.
- Complete preliminary design by November 1997.
- Complete final design by late 1999.
- Initiate the construction process upon approval of a construction schedule by your Board.

### **CEQA COMPLIANCE / ENVIRONMENTAL DOCUMENTATION**

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Metropolitan, as the lead agency, prepared and certified an Environmental Impact Report (EIR) for the Central Pool Augmentation Project (CPA) on August 22, 1995. The Lake Mathews outlet tower is a component of the CPA's final EIR which was certified by the Board. No other California Environmental Quality Act documents are needed for your Board to act on these recommendations.

### **CONTRACT SUMMARY - WOODWARD-CLYDE CONSULTANTS**

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<b>Contract Status:</b> New	<b>Type of Selection:</b> Per RFP No. 246
<b>Contract Form:</b> Professional Services	<b>Consultants Requesting RFPs:</b> 32
<b>Contract Type:</b> Firm Fixed Price	<b>Proposals Submitted:</b> 8
<b>Funding:</b> Capital Appr. No. 15277	<b>Evaluation Criteria</b> Qualifications and Technical Approach

### **CONTRACT SUMMARY - JACOBS ASSOCIATES**

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<b>Contract Status:</b> New	<b>Type of Selection:</b> Per RFP No. 247
<b>Contract Form:</b> Professional Services	<b>Consultants Requesting RFPs:</b> 13
<b>Contract Type:</b> Firm Fixed Price	<b>Proposals Submitted:</b> 5
<b>Funding:</b> Capital Appr. No. 15277	<b>Evaluation Criteria</b> Qualifications and Technical Approach

### **MBE / WBE**

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- Based upon the subcontractable work identified in RFP No. 246, the Business Outreach Office established goals of 12 percent combined minority-owned and women-owned business participation. Due to a lack of subcontractable work associated with RFP No. 247, no minority-owned and women-owned business goals were established.
- Woodward-Clyde Consultants will provide 40 percent certified MBE participation and 2 percent certified WBE participation under the proposal for RFP 246.
- Woodward-Clydes' subconsultants are shown on Attachment A.

### **DETAILED REPORT**

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In November 1996, your Board increased Appropriation No. 15277 by \$11,160,000 to a total of \$12,900,000 and authorized the General Manager to have all work performed in advance of award of a construction contract for the LMOFP.

The LMOFP would entail modifications to the existing Lake Mathews outlet tower and construction of a new outlet tower. The project also includes a new underwater approach channel, a new outlet tunnel to the existing tunnel, a junction shaft, and a short stub-out tunnel for connection to the future Central Pool Augmentation Project.

RFP 246 for geotechnical exploration and testing services was advertised on January 27, 1997. Eight proposals were received on March 11, 1997 and four consulting firms were short-listed for interviews. Interviews were conducted on April 3, 1997, and Woodward-Clyde Consultants was selected with a maximum payable amount of \$600,000 for their services.

RFP 247 for tunnel design and geotechnical engineering services was advertised on February 21, 1997. Five proposals were received on March 25, 1997, and two consulting firms were short-listed for interviews. Interviews were conducted on April 15, 1997, and Jacobs Associates was selected with a maximum payable amount of \$1,500,000 for their services.

The review committee for RFP 246 and RFP 247 was comprised of Metropolitan geotechnical, civil, and structural engineers as well as the Board of Consultants for the LMOFP. The selections were based on the qualifications of the respondents as presented in their proposals and during the interviews. Attachment B summarizes the scores and ranking of the respondents for both RFPs.

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(LMGEO)

Attachments

**MBE/WBE PARTICIPATION**  
**Request For Proposal 246**

NAME OF SELECTED RESPONDENT: Woodward-Clyde  
ANTICIPATED PARTICIPATION LEVELS:

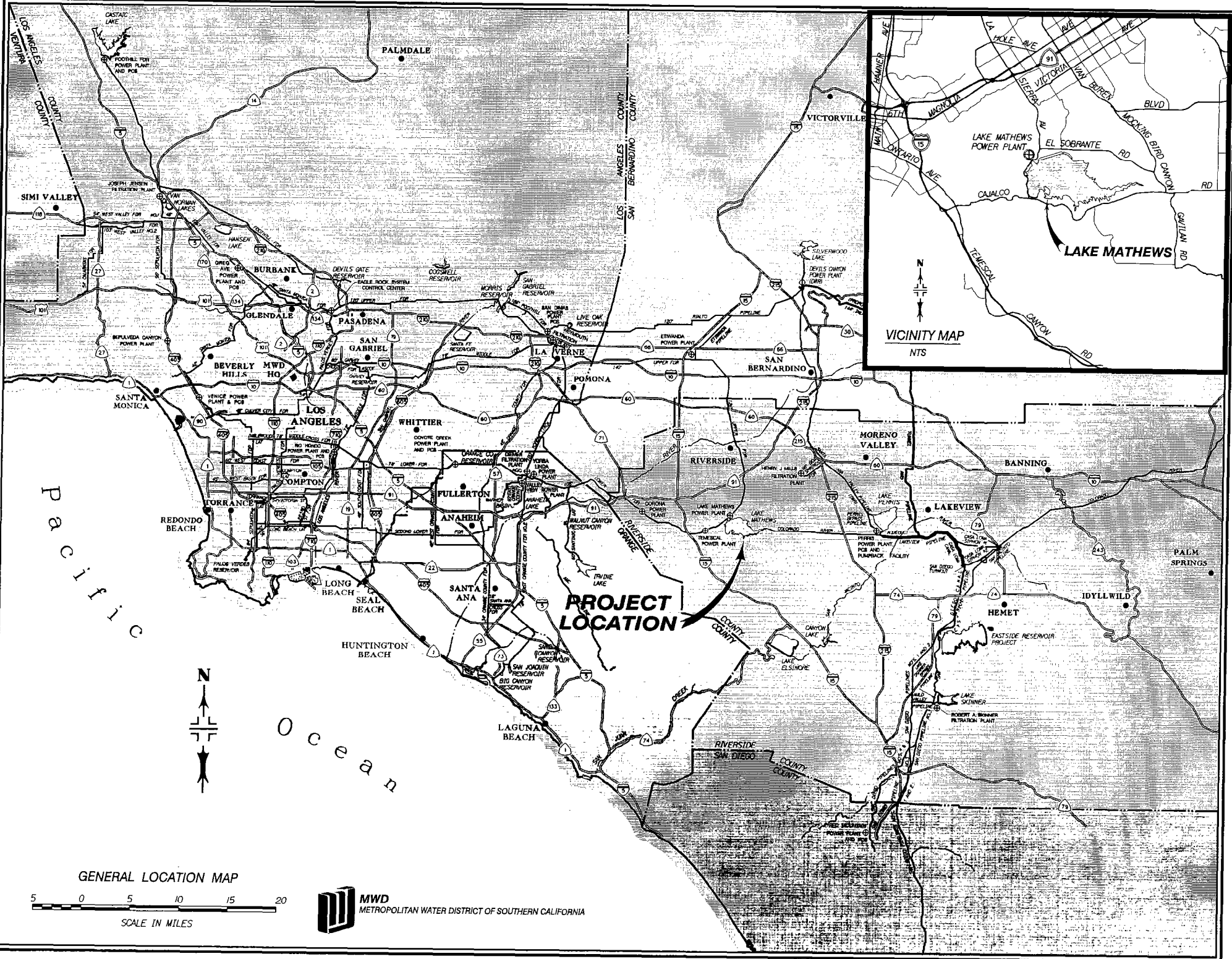
<b>Name of Certified MBE/WBE Subcontractor/Supplier</b>	<b>Work to Be Performed or Materials To Be Supplied</b>	<b><u>Participation</u></b>	
		<b>MBE%</b>	<b>WBE%</b>
Dot. Dat, Inc.	Boring Log Processing		2%
B.C. <sup>2</sup> Environmental	Drilling Services	40%	
<b>Total Committed Participation</b>		<b>40%</b>	<b>2%</b>

Summary of Final Scores for RFP 246  
Geotechnical Exploration and Testing Services

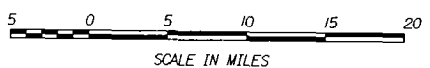
Firm	Written Proposal (95 pt. max.)	Oral Interview (100 pt. max)	MBE/WBE (10 pt. max)	Total Points (205 pt. max)
<b>Woodward-Clyde</b>	<b>75.0</b>	<b>82.7</b>	<b>10.0</b>	<b>167.7</b>
B	65.4	73.7	10.0	149.1
C	65.6	63.0	10.0	138.6
D	64.7	48.0	10.0	122.7
E	47.9	Not Interviewed	10.0	N/A
F	43.4	Not Interviewed	5.0	N/A
G	38.6	Not Interviewed	10.0	N/A
H	25.4	Not Interviewed	5.0	N/A

Summary of Final Scores for RFP 247  
Tunnel Design and Geotechnical Engineering Services

Firm	Written Proposal (100 pt. max)	Oral Interview (100 pt. max)	Total Points (200 pt. max)
<b>Jacobs Associates</b>	<b>84.9</b>	<b>88.0</b>	<b>172.9</b>
B	70.4	84.9	155.3
C	53.7	Not Interviewed	N/A
D	52.2	Not Interviewed	N/A
E	38.6	Not Interviewed	N/A



GENERAL LOCATION MAP



VICINITY MAP  
NTS