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October 22, 2019

Mr. Daniel Thomas
Civil Engineering Associate
Eastern Municipal Water District
2270 Trumble Road
Post Office Box 8300
Perris, CA 92572-8300

Project Name: Staff Extension for Hydrogeological Services
Project Number: W9Y26500

Subject: Staff Extension for Hydrogeological Services, Agreement No. 120119, Change Order No. 1

Dear Mr. Thomas:

Jacobs Engineering Group Inc. (Jacobs) submitting this Change Order No. 1 to Eastern Municipal Water District (the District) to provide additional As Needed Hydrogeologic Services, Category 1: Modeling & Planning Studies to the Groundwater Development Group of the Groundwater Management and Facilities Planning Department extending through June 30, 2020. Jacobs has developed this Change Order No. 1 based on discussion with District staff, the District's Agreement No. 120119 for Staff Extension for Hydrogeological Services, the District's Agreement No. 117498 for Hydrogeological Services Category 1 – Modeling & Planning Studies dated April 22, 2019, and Jacobs' Proposal for As Needed Hydrogeologic Services, Category 1) Modeling & Planning Studies dated November 15, 2018, in response to the District's Request for Qualifications (RFQ) No. 3078, dated October 11, 2018. The estimated cost for Change Order No. 1 for extending the As Needed Hydrogeological Services through June 30, 2020 is **\$240,353**.

Jacobs proposes to provide one Senior Hydrogeologist (Mr. Alan Bradford) to work in the District's Perris, California office for up to 3 days per week for a period of approximately 26 weeks (6 months). In addition, Jacobs proposes up to 2 additional days per week for Senior Hydrogeologists to work remotely to support the District's Modeling and Planning Studies, for a total of 5 days per week for a period of approximately 26 weeks (6 months) through June 30, 2020. As discussed with the District, Jacobs has also included estimated travel costs.

Jacobs understands that Mr. Bradford will report directly to Mr. Daniel Thomas, Civil Engineering Associate, and alternatively report to Mr. John Daverin, Senior Engineering Geologist or Mr. Brian Powell, Director of Groundwater Management and Facilities Planning. Jacobs also understands Mr. Bradford's work may be performed at Jacobs' Irvine, CA office and work may be delegated by Mr. Bradford to other Jacobs' staff, if needed, subject to verbal approval of additional staff in advance by the District.

Jacobs considers the District to be one of our most important clients. We see this as a great opportunity to further collaborate with the District by continuing to offer our expertise, knowledge and the leadership of our locally-based staff. Our team is a local resource base, backed by one of the world's largest global engineering enterprises. The estimated cost for completing the proposed scope of work is **\$240,353**.

Exhibit 1 presents the estimated hours and costs associated with each task for the change order. A detailed breakdown of estimated hours and costs associated with each task/subtask for the change order is included as **Attachment A**. Jacobs' labor rates from our Proposal for As Needed Hydrogeologic Services, Category 1) Modeling & Planning Studies dated November 15, 2018 are included as **Attachment B**.

Exhibit 1
Detailed Labor and Cost Estimate

Task	Hours	Labor	Expense	Original Budget Subtotal	Additional Budget Request Subtotal
Task 1 – Project Management – Original Budget	30	\$4,812	\$3,580	\$8,392	
Task 1 – Project Management – Additional Budget Request	72	\$12,072	\$16,121		\$28,193
Task 2 – As Needed Hydrogeological Services – Modeling & Planning Studies – Original Budget	392	\$79,968	\$0	\$79,968	
Task 2 – As Needed Hydrogeological Services – Modeling & Planning Studies – Additional Budget Request	1,040	\$212,160	\$0		\$212,160
Total - Additional Budget Request	1,112	\$224,232	\$16,121		\$240,353
Revised Total Project Budget	1,534	\$309,012	\$19,701		\$328,713

Jacobs appreciates the opportunity to be of service to the District. If you have questions or require additional information, please contact Alan Bradford at (949) 224-7562.

Sincerely,

Jacobs Engineering Group, Inc.



Alan Bradford, P.G., C.Hg.
Senior Project Manager



Fred Soroushian, P.E.
Vice President and Client Account Manager

Attachment A. Change Order No. 1 Cost Estimate for Staff Extension for Hydrogeological Services

Task Description	Staff	Project Manager/ Sr. Hydro	Staff Hydrogeologist	Field Geologist	Admin Support/ CAD/Graphics	Total Labor Hours	Total Labor Cost (\$)	Expenses (\$)	Original Extended Cost (\$)	Additional Extended Cost (\$)
	Principal Bill Rate									
	\$246	\$204	\$163	\$137	\$95					
	Cost (\$)									
Task 1 - Project Management - Original Budget		18			12	30	\$4,812	\$3,580	\$8,392	
Task 1 - Project Management - Additional Budget Request		48			24	0	\$12,072	\$16,121		\$28,193
Task 2: As Needed Hydrogeological Services – Modeling & Planning Studies – Original Budget		392			0	392	\$79,968		\$79,968	
Task 2 - As Needed Hydrogeological Services – Modeling & Planning Studies - Total Additional Budget Request		1,040				1,040	\$212,160			\$212,160

TOTAL ORIGINAL BUDGET (All Tasks) \$88,360

TOTAL ADDITIONAL BUDGET REQUEST (All Tasks) \$240,353

REVISED TOTAL PROJECT BUDGET (Original Plus Additional Budget Request) \$328,713

**Attachment B – Labor Rates for As Needed Hydrogeologic Services, Category 1)
Modeling & Planning Studies**

RFQ PRICE FORM		
Item	Description	Hourly Rate
1	Principal	\$246
2	Senior Hydro Geologist	\$204
3	Staff Hydro Geologist	\$163
4	Staff Geologist	\$137
5	Field Technician	\$119
6	Admin Support	\$95

Note:

¹Travel costs to the District's office and facilities shall be reimbursed at cost. Personal vehicle mileage shall be reimbursed at a rate of 58 cents/mile (\$0.58/mile).

The Project shall begin 3 working days after receipt of order or notice to proceed.