



March 22, 2019  
Proposal No. MW170333.001P

Mr. Corey Wallace, PE  
**Eastern Municipal Water District**  
2270 Trumble Road  
PO Box 8300  
Perris, CA 92570

**Subject: Proposal for Geotechnical Testing and Observation Services  
Phase 3 – Solar System & Electrical Modifications  
Moreno Valley RWRf, Perris Valley RWRf, Sun City RWRf, and  
San Jacinto Valley RWRf, Riverside County, California**

**Reference: Project Plans for Solar Renewable Energy Initiative – Phase 3,  
Specification No. 1345, Prepared by Parsons, Sheets C-01 to C-02, C-  
10 to C-14, C-20 to C-26, C-30 to C-34, C-40 to C-43, C-50 to C-56, C-60  
to C-61**

Dear Mr. Wallace:

Kleinfelder is pleased to present this proposal for geotechnical testing and observation services for the subject project. The purpose of our services will be to provide Eastern Municipal Water District (EMWD) with field data and information in order to assess compliance with the project plans and specifications. We welcome the opportunity to be part of the Project Team and have prepared this proposal based upon our past experience with this project, projects of similar scope within the county of Riverside, California and our review of referenced project plans. It should be noted that at the time of our proposal preparation, an approved contractor construction schedule was not available for our review.

This proposal may be subject to modification upon receipt of a construction schedule and/or updated information for the project or should additional staff or equipment be required to meet adjustments to the contractors schedule or convenience. This proposal includes our understanding of the project, proposed scope of services, an estimate of our efforts and fees, and our project limitations.

Kleinfelder is committed to providing quality service to our clients, commensurate with their wants, needs, and desired level of risk. If a portion of this proposal does not meet your needs, or if those needs have changed, Kleinfelder stands ready to consider appropriate modifications, subject to the standards of care to which we adhere as professionals.

## **PROJECT UNDERSTANDING**

Based on our review of the project plans, we understand that the work to be constructed is located within four EMWD Renewable Water Reclamation Facilities (RWRf) located within the County of Riverside. The sites are the Moreno Valley RWRf, Perris Valley RWRf, Sun City RWRf, and San Jacinto Valley RWRf.

Prior phases of this project consisted of grading and installation of solar panels at each of the RWRf sites. This phase of the project comprises of expanding the solar fields by grading/earthwork construction of relatively level graded pads for the installation of solar panels at each of the RWRf sites.

We have not been provided a project schedule. We have estimated 105 days total for grading, based on an estimated 30 days for Perris Valley RWRf, 25 days for Moreno Valley RWRf, 20 days for Sun City RWRf, 10 days for San Jacinto Valley RWRf and 20 days for San Jacinto Valley RWRf (RES-BCT). The sequence of the project and number of construction crews is not currently known. We will review our staffing estimate once we received a construction schedule.

## **SCOPE OF SERVICES**

Kleinfelder will provide experienced professionals and technical staff during construction operations to provide materials testing and observation services. Our personnel will monitor and document the contractors daily work activities. Additionally, we will perform engineering review of our work, as construction progresses. We anticipate attendance by our project professional and proposed technical staff at the pre-construction meeting. However, attendance at weekly construction meetings is not included in our proposal.

Our project manager will coordinate and provide technical oversight to our personnel for our services.

We anticipate the scope of work will generally consist of the following activities:

### **Project Management Services**

- Attend Pre-Construction Meeting;
- Review Daily Field Reports;
- Schedule Quality Assurance Testing;
- Preparation of 5 Final Summary Reports (one for each site).

### **Geotechnical Testing and Observation Services**

- Perform In-place density testing of fill and trench backfill materials;
- Collect bulk samples for laboratory testing;
- Prepare Daily Observation Reports;
- Transport Samples to our Laboratory for Testing.

## **Laboratory Testing Services**

- Laboratory Maximum Density/Optimum Moisture Content;

We have made the following assumptions during preparation of our proposal and fee estimate:

1. Contractor will utilize 1 grading crew for all five sites
2. Grading will not be done concurrently at multiple sites.
3. Weekend and Holiday work will not apply.
4. Fulltime testing and observation services are required and include 9/hour days (Portal-to-Portal with a maximum of 1 hour travel per site visit).
5. Night time construction will not apply.

We have estimated the number of days of grading for each of the sites to develop our preliminary fee estimate. This estimate may need modification following the receipt of the construction schedule.

- Moreno Valley RWRf – 25 days for grading
- Perris Valley RWRf – 30 days for grading
- Sun City RWRf – 20 days for grading
- San Jacinto Valley RWRf – 10 days for grading
- San Jacinto Valley RWRf (RES-BCT)– 20 days for grading

Our project manager and technical staff will be available to EMWD engineer and/or onsite representative on an as-requested basis through the duration of the project construction activities. Our representative will maintain copies of construction documents for reference during construction activities. Copies of daily field reports will be left onsite or emailed to EMWD's onsite representative.

All work performed on the project will be under the supervision of our project manager. Laboratory testing will be performed in our ASTM D3666 qualified laboratory. Our proposed qualified technical staff will be working under the supervision of a registered professional engineer and representatives from Eastern Municipal Water District.

Following completion of construction activities at each of the five sites, we will prepare a report summarizing our testing and observations for that location.

It should be noted our services will not include: (1) interpretation or modification of the project plans or specifications; (2) submittal of test results or reports to any regulatory

agency (unless specifically requested by the Client in writing); or (3) job site safety beyond our personnel.

## ESTIMATED FEE

We propose our services be compensated on a time-and-expense basis based on the schedule duration assumptions shown in our attached fee estimate. For the scope of work outlined above, we estimate our fees will be **\$162,631.00**.

Project Site	Fee Estimate
Moreno Valley RWRf	\$36,955.00
Perris Valley RWRf	\$44,632.60
Sun City RWRf	\$30,641.40
San Jacinto Valley RWRf	\$18,487.00
San Jacinto Valley RWRf (RES-BCT)	\$31,915.00
<b>Total Estimated Fee:</b>	<b>\$162,631.00</b>

Detailed summaries of our estimated fees for each RWRf site are presented in attached Estimated Fees summaries for each of the RWRf sites. We have assumed that the project is subject to the prevailing wage law of California.

A “show-up” fee for scheduled services that are canceled after arrival will incur a two-hour minimum charge, if any. A four-hour minimum charge will be made for all field services.

It should be noted that the fees above do not anticipate overtime work on the project. The rates associated with overtime work are at 1.5 times the listed hourly rates in Estimated Fees summaries. Overtime for our services is defined as work on the project by a single person in excess of 8 hours per day and all time on weekends and/or night shifts.

Our total fees can fluctuate depending on the quality and performance of the construction materials used in addition to the contractor’s approach and scheduling of construction sequences, work force, and jurisdictional requirements and events, which occur during the course of the project that cannot always be predicted in advance. We will attempt to coordinate our services with the contractor’s representatives to efficiently service the project. While we are diligent in our review of the project plans, it may be possible for deviations to occur once the project has begun. Proficient contractor performance and scheduling minimizes our time involved in the project, consequently resulting in lower total fees. In the event conditions arise which are beyond our control, were unknown at the time this proposal was prepared, unanticipated based on the available information, or differ significantly from the assumptions discussed above and in the table, we may need to revise our scope of work and estimated fees in order to complete the project. Should this occur, we will contact you for authorization before exceeding the project budget.

## **AUTHORIZATION**

We anticipate that you will issue a task order against our current On-Call Services Agreement with Eastern Municipal Water District referencing this proposal as our authorization to proceed. If there is a need for any change in the scope of work or schedule described in the proposal or in the Agreement, please call us immediately. Changes may require revision of the proposed fee, which will be communicated to you upon assessment of the requested changes. All terms and conditions indicated in this proposal will be considered by both parties to be in effect from the effective date of the signed contract through completion of the project.

All information gathered by Kleinfelder is considered confidential and will be released only to those specified by the construction documents, or to others upon written authorization by the Client, or as required by law.

Kleinfelder offers a range of assessment and engineering services to suit the varying needs of our clients. Although risk can never be eliminated, more detailed and extensive assessment or engineering yields more information, which may help understand and manage the degree of risk. Since such detailed services involve greater expense, our clients participate in determining the level of service that provides adequate information for their purposes at an acceptable level of risk. Acceptance of this proposal will indicate that Eastern Municipal Water District has reviewed the scope of services and determined that it does not need or want more services than are being proposed at this time. Any exceptions should be noted and may result in a change in fees.

## **LIMITATIONS**

The safety of our employees is of paramount concern to Kleinfelder. You will be notified if the location of your project represents a potential safety concern to our employees. Unsafe conditions for field work will require modification of our estimated scope of work and associated fees. We will advise you of the additional costs necessary to mitigate these unanticipated conditions, if applicable.

Our work will be performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinion and recommendations will be based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided. Even with diligent monitoring, construction defects may occur. In all cases the contractor is solely responsible for the direction and quality of the work, adherence to plans and specifications, and repair of defects.

This proposal is valid for a period of 90 days from the date of the proposal, unless a longer period is specifically required in which case that time frame will apply. This proposal was

prepared specifically for the client and its designated representatives and may not be provided to others without Kleinfelder's express permission.

The fee specified in this proposal is based upon the assumption that the site will be accessible to field personnel. If weather, access, or site conditions restrict our field operations, we may need to revise our fee estimate.

## **CLOSURE**

We appreciate the opportunity to submit this proposal and look forward to working with you on this project. If there is a need for any change in the scope of service or schedule described in this proposal, or if you have any questions or require additional information, please call our office at (951) 801-3681.

Sincerely,

**KLEINFELDER, INC.**



Eric W. Noel, PE, GE  
Principal Geotechnical Engineer



Richard F. Escandon, PG, CEG  
Senior Principal Geologist

Attachments: Moreno Valley RWRP Fee Estimate  
Perris Valley RWRP Fee Estimate  
Sun City RWRP Fee Estimate  
San Jacinto Valley RWRP Fee Estimate  
San Jacinto Valley RWRP (RES-BCT) Fee Estimate

## ATTACHMENTS

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## KLEINFELDER ESTIMATED FEES

### Moreno Valley RWRP

#### Construction Inspection & Testing Services

	# of units	unit type	@	Rate	Totals
<b>Site Grading</b>	225	hours	@	\$120.00	\$ 27,000.00
<i>(Assume 25 Working Days @ 9 hours ea. Portal to Portal)</i>					
<b>Mileage</b>	800	mile	@	\$0.58	\$ 464.00
<b>Geotechnical Engineer</b>	8	hours	@	\$225.00	\$ 1,800.00
<i>(Assume 2 visit @ 4 hours ea. Portal to Portal)</i>					
<b>ESTIMATED COST</b>					<b>\$ 29,264.00</b>

#### Laboratory

<b>Maximum Density/Optimum Moisture Content (4" Test)</b>	2	each	@	\$198.00	\$ 396.00
<b>Maximum Density/Optimum Moisture Content (6" Test)</b>	1	each	@	\$215.00	\$ 215.00
<b>Sieve Analysis</b>	2	each	@	\$138.00	\$ 276.00
<b>ESTIMATED COST</b>					<b>\$ 887.00</b>

#### MANAGEMENT / REPORTING / ADMINISTRATIVE

	# of units	unit type	@	Rate	Totals
<b>Project Manager/Geotechnical Engineer</b>	16	hours	@	\$225.00	\$ 3,600.00
<b>Administrative</b>	8	hours	@	\$88.00	\$ 704.00
<b>Final Compaction Report</b>	1	each	@	\$2,500.00	\$ 2,500.00
<b>ESTIMATED COST</b>					<b>6,804.00</b>

**Total Estimated Amount For the Project: \$ 36,955.00**

This proposal assumes that prevailing wage laws do apply to the subject project

#### BASIS OF CHARGES

<u>HOURS WORKED</u>	<u>HOURS BILLED</u>
Show Up - No Work	2 hours
Less than 4 hours	4 hours
4 - 8	Actual hours worked
8-12 & Saturday	Time and One-Half
Greater than 12, Sundays & Holidays	Double Time

**KLEINFELDER ESTIMATED FEES**

**Perris Valley RWRP**

<b>Construction Inspection &amp; Testing Services</b>	<b># of units</b>	<b>unit type</b>	<b>@</b>	<b>Rate</b>		<b>Totals</b>	
<b>Site Grading</b>	270	hours	@	\$120.00	\$	32,400.00	
<i>(Assume 30 Working Days @ 9 hours ea. Portal to Portal)</i>							
<b>Mileage</b>	1320	mile	@	\$0.58	\$	765.60	
<b>Geotechnical Engineer</b>	12	hours	@	\$225.00	\$	2,700.00	
<i>(Assume 3 visits @ 4 hours ea. Portal to Portal)</i>							
					<b>ESTIMATED COST</b>	<b>\$</b>	<b>35,865.60</b>

**Laboratory**

<b>Maximum Density/Optimum Moisture Content</b>	2	each	@	\$198.00	\$	396.00	
<b>Maximum Density/Optimum Moisture Content</b>	1	each	@	\$215.00	\$	215.00	
<b>Sieve Analysis</b>	2	each	@	\$138.00	\$	276.00	
					<b>ESTIMATED COST</b>	<b>\$</b>	<b>887.00</b>

<b>MANAGEMENT / REPORTING / ADMINISTRATIVE</b>	<b># of units</b>	<b>unit type</b>	<b>@</b>	<b>Rate</b>		<b>Totals</b>	
<b>Project Manager/Geotechnical Engineer</b>	20	hours	@	\$225.00	\$	4,500.00	
<b>Administrative</b>	10	hours	@	\$88.00	\$	880.00	
<b>Final Compaction Report</b>	1	each	@	\$2,500.00	\$	2,500.00	
					<b>ESTIMATED COST</b>	<b>\$</b>	<b>7,880.00</b>

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**Total Estimated Amount For the Project:** **\$ 44,632.60**

assumes that prevailing wage laws do apply to the subject project

**BASIS OF CHARGES**

HOURS WORKED  
 Show Up - No Work  
 Less than 4 hours  
 4 - 8  
 8-12 & Saturday  
 Greater than 12, Sundays & Holidays

HOURS BILLED  
 2 hours  
 4 hours  
 Actual hours worked  
 Time and One-Half  
 Double Time

## Sun City RWRf

### Construction Inspection & Testing Services

	# of units	unit type	@	Rate	Totals
<b>Site Grading</b>	180	hours	@	\$120.00	\$ 21,600.00
<i>(Assume 20 Working Days @ 9 hours ea. Portal to Portal)</i>					
<b>Mileage</b>	1080	mile	@	\$0.58	\$ 626.40
<b>Geotechnical Engineer</b>	8	hours	@	\$225.00	\$ 1,800.00
<i>(Assume 2 visit @ 4 hours ea. Portal to Portal)</i>					
<b>ESTIMATED COST</b>					<b>\$ 24,026.40</b>

### Laboratory

<b>Maximum Density/Optimum Moisture Content</b>	2	each	@	\$198.00	\$ 396.00
<b>Maximum Density/Optimum Moisture Content</b>	1	each	@	\$215.00	\$ 215.00
<b>Sieve Analysis</b>	2	each	@	\$138.00	\$ 276.00
<b>ESTIMATED COST</b>					<b>\$ 887.00</b>

### MANAGEMENT / REPORTING / ADMINISTRATIVE

	# of units	unit type	@	Rate	Totals
<b>Project Manager/Geotechnical Engineer</b>	12	hours	@	\$225.00	\$ 2,700.00
<b>Administrative</b>	6	hours	@	\$88.00	\$ 528.00
<b>Final Compaction Report</b>	1	each	@	\$2,500.00	\$ 2,500.00
<b>ESTIMATED COST</b>					<b>\$ 5,728.00</b>

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**Total Estimated Amount For the Project: \$ 30,641.40**

Proposal assumes that prevailing wage laws do apply to the subject project

#### ***BASIS OF CHARGES***

<u>HOURS WORKED</u>	<u>HOURS BILLED</u>
Show Up - No Work	2 hours
Less than 4 hours	4 hours
4 - 8	Actual hours worked
8-12 & Saturday	Time and One-Half
Greater than 12, Sundays & Holidays	Double Time

## San Jacinto Valley RWRf

### Construction Inspection & Testing Services

	# of units	unit type	@	Rate	Totals
<b>Site Grading</b>	90	hours	@	\$120.00	\$ 10,800.00
<i>(Assume 10 Working Days @ 9 hours ea. Portal to Portal)</i>					
<b>Mileage</b>	600	mile	@	\$0.58	\$ 348.00
<b>Geotechnical Engineer</b>	8	hours	@	\$225.00	\$ 1,800.00
<i>(Assume 2 visit @ 4 hours ea. Portal to Portal)</i>					
<b>ESTIMATED COST</b>					<b>\$ 12,948.00</b>

### Laboratory

<b>Maximum Density/Optimum Moisture Content</b>	2	each	@	\$198.00	\$ 396.00
<b>Maximum Density/Optimum Moisture Content</b>	1	each	@	\$215.00	\$ 215.00
<b>Sieve Analysis</b>	2	each	@	\$138.00	\$ 276.00
<b>ESTIMATED COST</b>					<b>\$ 887.00</b>

### MANAGEMENT / REPORTING / ADMINISTRATIVE

	# of units	unit type	@	Rate	Totals
<b>Project Manager/Geotechnical Engineer</b>	8	hours	@	\$225.00	\$ 1,800.00
<b>Administrative</b>	4	hours	@	\$88.00	\$ 352.00
<b>Final Compaction Report</b>	1	each	@	\$2,500.00	\$ 2,500.00
<b>ESTIMATED COST</b>					<b>4,652.00</b>

**Total Estimated Amount For the Project:**

**\$ 18,487.00**

Proposal assumes that prevailing wage laws do apply to the subject project

#### ***BASIS OF CHARGES***

HOURS WORKED  
 Show Up - No Work  
 Less than 4 hours  
     4 - 8  
     8-12 & Saturday  
 Greater than 12, Sundays & Holidays

HOURS BILLED  
 2 hours  
 4 hours  
 Actual hours worked  
 Time and One-Half  
 Double Time

## San Jacinto Valley RWRf (RES-BCT)

Construction Inspection & Testing Services	# of units	unit type	@	Rate	Totals
<b>Site Grading</b>	180	hours	@	\$120.00	\$ 21,600.00
<i>(Assume 20 Working Days @ 9 hours ea. Portal to Portal)</i>					
<b>Mileage</b>	1200	mile	@	\$0.75	\$ 900.00
<b>Geotechnical Engineer/Geologist</b>	8	hours	@	\$225.00	\$ 1,800.00
<i>(Assume 2 visits @ 4 hours ea. Portal to Portal)</i>					
<b>ESTIMATED COST</b>					<b>\$ 24,300.00</b>

### Laboratory

<b>Maximum Density/Optimum Moisture Content</b>	2	each	@	\$198.00	\$ 396.00
<b>Maximum Density/Optimum Moisture Content</b>	1	each	@	\$215.00	\$ 215.00
<b>Sieve Analysis</b>	2	each	@	\$138.00	\$ 276.00
<b>ESTIMATED COST</b>					<b>\$ 887.00</b>

MANAGEMENT / REPORTING / ADMINISTRATIVE	# of units	unit type	@	Rate	Totals
<b>Project Manager/Geotechnical Engineer/Geologist</b>	12	hours	@	\$225.00	\$ 2,700.00
<b>Administrative</b>	6	hours	@	\$88.00	\$ 528.00
<b>Final Compaction Report</b>	1	each	@	\$3,500.00	\$ 3,500.00
<b>ESTIMATED COST</b>					<b>\$ 6,728.00</b>

<b>Total Estimated Amount For the Project:</b>	<b>\$ 31,915.00</b>
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assumes that prevailing wage laws do apply to the subject project

### BASIS OF CHARGES

<u>HOURS WORKED</u>	<u>HOURS BILLED</u>
Show Up - No Work	2 hours
Less than 4 hours	4 hours
4 - 8	Actual hours worked
8-12 & Saturday	Time and One-Half
Greater than 12, Sundays & Holidays	Double Time