

## **AGREEMENT FOR PROFESSIONAL SERVICES FOR THE PREPARATION OF THE CITY OF COALINGA 2015 URBAN WATER MANAGEMENT PLAN**

This Agreement for Professional Services (“Agreement”) is made and entered into this sixth day of January 2019, by and between the City of Coalinga, a Municipal Corporation (“City”), and AM Consulting Engineers (“Provider”).

### **RECITALS**

- A. Provider represents to City that they are specially trained, experienced, licensed and competent to perform the services which will be required by this Agreement; and
- B. Provider represents to City that they possess the skill, experience, ability, background, certification and knowledge to provide the services described in this Agreement on the terms and conditions described herein.
- C. City desires to retain Provider to render the services as set forth in this Agreement, as Exhibit 1.

NOW THEREFORE, in consideration of the mutual covenants set forth herein for such other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, the parties hereto agree as follows:

- 1. **Retention of Provider.** Subject to the terms and conditions set forth herein, City retains Provider to perform the services identified in this Agreement, as an independent contractor and Provider hereby accepts this independent contractor appointment.
- 2. **Scope of Services.** The Provider shall perform professional services, in accordance with all the provisions of this Agreement. The Scope of Work is attached hereto as Exhibit 1. Provider shall correct any and all errors and/or omissions, which arise out of Provider’s negligence or intentional misconduct, in the performance of the Services and any documents resulting therefrom even though City has accepted said Services or documents. Provider shall make such corrections upon City’s request and at no cost or expense to City.
- 3. **Time of Performance.** This agreement shall remain in effect until July 6<sup>th</sup>, 2020. Contract time of completion for individual projects will be agreed upon before assignment of each project to Provider. Services designated in the scope of work shall be completed on agreed date unless prior written approval for a time extension has been granted by Sean Brewer.
- 4. **Compensation.** Compensation to be paid to Provider shall be in accordance with the fee schedule, Exhibit 2, subject to the Prevailing Wage Requirements which are available at the office of the Public Works Director. An estimate for cost of services for each project shall be submitted to the Public Works Director before commencement of work. Payment by City under this Agreement shall not be deemed a waiver of defects, even if such defects were known to the City at the time of payment. An increase in the fee schedule will be allowed at the beginning of year three

of this agreement and when the Prevailing Wage for services included in this agreement increases by the same amount approved for increase by the Department of Industrial Relations.

5. **Method of Payment.** Provider shall submit monthly billings to City describing the work performed during the preceding month. Provider's bills shall include a brief description of the Services performed and the date the Services were performed the number of hours spent and by whom, and a description of any reimbursable expenditures. City shall pay Provider no later than 30 days after the date of submittal of a complete invoice for completed tasks and approval of the invoice by City staff.

6. **Extra Work.** At any time during the term of this Agreement, City may request that Provider perform Extra Work. As used herein, "Extra Work" means any work which is determined by City to be necessary for the proper completion of the Services, but which the parties did not include in the Scope of Work. Extra work will be performed on an hourly basis under the Provider's most current hourly fee schedule. Provider shall not perform, nor be compensated for Extra Work without written authorization from City.

7. **Termination.** This Agreement may be terminated by the City immediately and without notice for cause or by City without cause upon ten (10) days' written notice of termination to Provider. Upon termination, Provider shall be entitled to compensation for Services performed up to the effective date of termination, unless this Agreement is terminated for cause, in which case, City may withhold compensation due Provider in order to reimburse City for any losses, damages or expenses caused by Provider's default under this Agreement.

8. **Equal Opportunity Employment.** Provider represents that it is an equal opportunity employer and it shall not discriminate against any sub provider, employee or applicant for employment because of race, religion, color, national origin, handicap, ancestry, sex or age. Such non-discrimination shall include, but not be limited to, all activities related to initial employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff or termination. Provider shall also comply with all relevant provisions of City's programs or guidelines currently in effect as identified and provided to Provider by City.

9. **Insurance Requirements.**  
a. Provider, at Provider's own cost and expense, shall procure and maintain, for the duration of this Agreement, the following insurance policies.

i. **Workers Compensation Coverage.** As required by the State of California, with Statutory Limits, and Employer's Liability Insurance with a limit of no less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000) per accident for bodily injury or disease.

ii. **General Liability Coverage.** Insurance Services Office (ISO) Form CG 0001, including products and completed operations, with limits of no less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000) per occurrence for bodily injury, personal injury, and property damage. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be TWO MILLION AND NO/100 DOLLARS (\$2,000,000), twice the required occurrence limit.

iii. Automobile Liability Coverage. ISO Form Number CA 0001 covering any auto (Code 1), with a limit no less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000) per accident for bodily injury and property damage.

iv. Professional Liability Coverage. Contractor will maintain Professional Liability coverage with limits no less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000) per occurrence or claim, and TWO MILLION AND NO/100 DOLLARS (\$2,000,000) policy aggregate.

If Provider maintains higher limits than the minimums shown above, the City requires and shall be entitled to coverage for the higher limits maintained by Provider.

Provider's insurance policies shall be "occurrence" policies and not "claims-made" coverage except for Professional Liability Coverage.

Provider may maintain an Umbrella policy in conjunction with the insurance policies referenced above. In such case, Provider shall be deemed to have satisfied the insurance requirements of this contract as long as: (i) the coverage limits of the Umbrella policy and of the underlying liability policy(ies), when combined, satisfy each of the per occurrence and aggregate requirements identified in this subsection a.; and (ii) coverage under the Umbrella policy is as broad as and includes all incidents and events covered by the underlying insurance that it supplements.

Any deductibles or self-insured retentions must be declared to and approved by the City. The City may require Provider to purchase coverage with a lower deductible or retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. Alternatively, the City may require Provider to provide a financial guarantee satisfactory to the City guaranteeing payment of losses and related investigations, claim administration, and defense expenses within the retention.

The policies are to contain, or be endorsed to contain, the following provisions:

i. The City and its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL and automobile liability policies with respect to liability arising out of work or operations performed by or on behalf of Provider including materials, parts, or equipment furnished in connection with such work or operations; products used by Provider; or automobiles owned, leased, hired or borrowed by Provider. General liability coverage can be provided in the form of an endorsement to Provider's insurance at least as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of both CG 20 10 and CG 20 37 if a later edition is used. The coverage shall contain no special limitations on the scope of protection afforded to the City, its officers, officials, employees or volunteers.

ii. For any claims related to this contract, Provider's insurance coverage shall be primary insurance as respects the City and its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the City and/or its officers, officials, employees, or volunteers shall be in excess of Provider's insurance and shall be non-contributory.

iii. Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the City.

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A:VII.

Provider shall furnish the City with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the City before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Provider's obligation to provide them. The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Provider hereby grants to City and its officers, officials, employees, and volunteers a waiver of any right to subrogation which any insurer of Provider may acquire against the City and/or its officers, officials, employees, and volunteers by virtue of the payment of any loss under such insurance. Provider agrees to obtain endorsements necessary to effect this waiver of subrogation, but this provision applies regardless of whether or not the City has received a waiver of subrogation endorsement from the insurer.

The City reserves the right to modify the insurance requirements contained in this contract, including, without limitation, coverage limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

10. **Indemnification.** To the fullest extent allowable by law, Provider agrees to indemnify, defend and hold harmless the City and its officials, officers, employees, agents and volunteers from and against all claims, demands, actions, injuries, liabilities, losses, costs or damages, direct or indirect, and any and all attorneys' fees and other expenses which City or its officials, officers, employees, agents or volunteers may sustain or incur as a consequence of or are in any way related to Provider's or its owners, directors, officers, managers, employees, agents and subcontractor's willful or negligent acts or omissions in the performance of the services and Providers responsibilities and obligations to be performed under this agreement or its failure to perform or comply with any of its obligations or responsibilities contained in this agreement; excluding, however, such liability, claims, losses, damages or expenses arising from City's sole or active negligence or willful acts. This duty to indemnify, defend, and hold harmless shall survive the termination of this agreement. If Provider maintains additional coverage or higher limits than those required herein, then City shall be entitled to additional coverage or higher limits maintained by Provider.

11. **Independent Contractor Status.** It is understood and agreed that Provider, in the performance of the Services to be performed pursuant to this Agreement, shall act as and be an independent contractor and shall not act as an agent or employee of City. Provider shall obtain no retirement benefits or other benefits which accrue to City's employees and Provider hereby expressly waives any claim it may have to any such rights. Nothing in this Agreement shall create or be construed as creating a partnership, joint venture or any other relationship between City and Provider.

12. **Provider's Books and Records.**

a. Provider shall maintain any and all ledgers, books of account, invoices, vouchers, canceled checks, and other records or documents evidencing or relating to charges for services, or expenditures and disbursements charged to City for a minimum period of three (3) years, or for any longer period required by law, from the date of final payment to Provider under this Agreement.

b. Provider shall maintain all documents and records that demonstrate performance under this Agreement for a minimum period of three (3) years, or for any longer period required by law, from the date of termination or completion of this Agreement.

c. Any records or documents required to be maintained pursuant to this Agreement shall be made available for inspection or audit, at any time during regular business hours, upon written request by the City. Copies of such documents shall be provided to the City for inspection at the City offices.

d. Where City has reason to believe that such records or documents may be lost or discarded due to dissolution, disbandment or termination of Provider's business, City may, by written request, require that custody of the records be given to the City and that the records and documents be maintained in the City offices. Access to such records and documents shall be granted to any party authorized by Provider, Provider's representatives, or Provider's successor-in-interest.

13. **Professional Ability of Provider.** City has relied upon Provider's representations regarding its training and professional ability to perform the Services hereunder as a material inducement to enter into this Agreement. Provider shall therefore provide properly skilled personnel to perform all Services under this Agreement. The primary provider of the Services called for by this Agreement shall be [NAME] who shall not be replaced without the written consent of the City. All work performed by Provider under this Agreement shall be in accordance with the applicable professional standard of care and shall meet the local professional standard of quality ordinarily to be expected of competent persons in Provider's field of expertise working in Fresno County.

14. **Compliance with Laws.** Provider shall use the proper standard of care in performing the Services and shall comply with all applicable federal, state and local laws, codes, ordinances and regulations in effect at the time the Agreement is executed. In addition, if the request for proposal to provide professional services which are the subject of this Agreement cited any federal or state financial assistance involved in the project for which the Services are provided, the Provider shall perform all services in accordance with all applicable federal and state laws, rates and regulations in effect at the time the agreement is executed.

15. **Licenses.** Provider represents and warrants to City that it has all licenses, permits, qualifications, and insurance which are legally required of Provider to lawfully and competently perform the Services. Provider represents and warrants to City that Provider shall, at its sole cost and expense, keep in effect or obtain at all times during the term of this Agreement, any licenses, permits, and insurance which are legally required of Provider to lawfully and competently perform the Services. Provider shall maintain a City of Coalinga business license.

16. **Assignment and Subcontracting.** The parties recognize that a substantial inducement to City for entering into this Agreement is the reputation, experience and competence of Provider. Assignments of any or all rights, duties or obligations of the Provider under this Agreement will be permitted only with the express written consent of the City, which will not be unreasonably withheld. Provider shall not subcontract any portion of the Services to be performed under this Agreement without the express written consent of the City, which will not be unreasonably withheld. If City consents to such subcontract, Provider shall be fully responsible to City for all acts or omissions of the subcontractor. Nothing in this Agreement shall: (1) create any contractual relationship between City and sub Provider; (ii) create any obligation on the part of the City to pay or to see to the payment of any monies due to any such subcontractor; (iii) or relieve Provider of any of its obligations and responsibilities under this Agreement.

17. **Attorneys' Fees.** If an action at law or in equity is necessary to enforce or interpret the terms of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees, costs and necessary disbursements in addition to any other reasonable relief to which he may be entitled. With respect to any suit, action or proceeding arising out of or related to this Agreement, or the documentation related hereto, the parties hereby submit to the jurisdiction and venue of the Superior Court for the County of Fresno, State of California for any proceeding arising hereunder.

18. **Sole and Only Agreement.** This Agreement supersedes any and all other agreements, either oral or in writing, between the parties hereto with respect to the matters set forth herein and contains all of the covenants and agreements between the parties regarding said matters. Each party to this Agreement acknowledges that no representations, inducements, promises or agreements, orally or in writing, have been made by any party or anyone acting on behalf of any party which are not embodied in this Agreement and no other agreement, statement or promise shall be valid or binding.

19. **Invalidity.** If any provision of this Agreement is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions shall nevertheless continue in full force and effect without being impaired or invalidated in any way.

20. **Amendment.** No change, amendment or modification of this Agreement shall be valid unless the same be in writing and signed by the parties hereto.

21. **Governing Law.** This Agreement shall be construed and governed pursuant to the laws of the State of California. Any action to enforce this Agreement is to be brought in Fresno County, California.

22. **Waiver.** Waiver of a breach or default under this Agreement shall not constitute a continuing waiver of a subsequent breach of the same or any other provision under this Agreement.

23. **Mediation.** The parties agree to make a good faith attempt to resolve any disputes arising out of this Agreement through mediation prior to commencing litigation. The parties shall mutually agree upon the mediator and shall divide the costs of mediation equally. If the parties are unable to agree upon a mediator, the dispute shall be submitted to JAMS/ENDISPUTE ("JAMS")

or its successor in interest. JAMS shall provide the parties with the names of five qualified mediators. Each party shall have the option to strike two of the five mediators selected by JAMS and thereafter the mediator remaining shall hear the dispute. If the dispute remains unresolved after mediation, either party may commence litigation.

24. **Authority to Enter Agreement.** Provider has all requisite power and authority to conduct its business and to execute, deliver and perform the Agreement. Each party warrants that the individuals who have signed this Agreement have the legal power, right, and authority to make this Agreement and to bind each respective party.

25. **Notice.** Except as otherwise expressly provided herein, any notice, consent, authorization or other communication to be given hereunder shall be in writing and shall be deemed duly given and received when delivered personally, when transmitted by facsimile or e-mail if receipt is acknowledged by the addressee, one business day after being deposited for next-day delivery with a nationally recognized overnight delivery service, or three business days after being mailed by first class mail, charges and postage prepaid, property addressed to the party to receive such notice at the last address furnished for such purpose by the party to whom notice is directed and addressed as follows:

**CITY:**

City of Coalinga  
155 West Durian  
Coalinga, California 93210

**PROVIDER:**

AM Consulting Engineers  
5150 N Sixth Street, Suite 124  
Fresno, CA 93710

IN WITNESS WHEREOF, the parties have executed this Agreement effective on the day and in the year first set forth above.

CITY OF COALINGA, a Municipal Corporation

By: \_\_\_\_\_  
Marissa Trejo, City Manager

PROVIDER

By: \_\_\_\_\_  
Alfonso Manrique, PE

APPROVED AS TO CONTENT:

ATTEST:

\_\_\_\_\_  
Sean Brewer  
Assistant City Manger

\_\_\_\_\_  
City Clerk

## **Exhibit 1 Scope of Work**

### **PROPOSED SCOPE OF SERVICES**

#### **2.1 PROJECT UNDERSTANDING**

The Urban Water Management Planning Act (UWMPA) requires every “urban water supplier” to prepare (or modify) and adopt an Urban Water Management Plan every five years. The goal of the UWMP is to assess current demands and supplies over the 20-year planning horizon and consider various drought scenarios to ensure adequate water supplies are available to meet existing and future demands. The UWMP Act also requires water shortage contingency planning and drought response actions be included in a UWMP.

The UWMP is required as a condition of application for various water system grant and loan funding opportunities. The City does not have a current UWMP on file with DWR. The deadline for the adoption of the 2015 UWMP has long passed.

AMCE has an excellent understanding of the City’s water supply infrastructure and the challenges that the City’s water supply faces. AMCE’s understanding has been developed over the years working with the City and other surrounding communities. The following summarizes our understanding of the important issues that need to be addressed in the UWMP:

##### **2.1.1 Water Demands**

The City’s average water demand was 126 gallons per capita per day (gpcpd) in 2016 and 143 gpcpd in 2018. According to DWR, the statewide average baseline water use is 198 gpcpd based on UWMPs from 342 retail water agencies. The baseline water use differs regionally across the state with generally lower water use along the coast and increasing water use in the inland valleys. The San Joaquin River Valley average water use is 239 gpcpd which is higher than the statewide average. The City’s average is lower than the San Joaquin River Valley Average, but it appears to be increasing.

The Water Conservation Bill of 2009 (SB-7) requires a reduction of the statewide average per capita daily water consumption by 20 percent by December 31, 2020. The City’s 2015 UWMP will need to provide the City’s baseline water use, compliance water use, and water use targets for 2020. The DWR methodologies for calculating baseline demand were revised in the 2015 UWMP guidelines.

Confirmation of the baseline water use will be a key part of this UWMP as the City will not be able to modify its 2020 target once the 2015 UWMP is adopted. AMCE will identify critical information needed to calculate and optimize the City’s baseline water use and targets, as well as work with the City to identify the methods by which the City intends to meet its per capita water use targets.

##### **2.1.2 Water Supply Reliability**



The City of Coalinga currently relies on solely surface water to meet customer potable water demands. The City's water supply is subject to allocations determined by the USBR for South of the Delta Contractors. Based on the historical record, the City's long-term average allocation is 85 percent of the total entitlement. However, for the 2015 UWMP due to recent environmental concerns in the Delta and potential future impacts due to climate change, the normal year reliability should be revised to a more conservative figure.

The Pleasant Valley groundwater Subbasin is over drafted and groundwater quality is marginal. The use of groundwater as a supplemental water source has been explored in the past but it appears to be unfeasible due to the elevated cost of treatment.

The City's 2015 UWMP should include input from Westlands Water District and other members of the IRWMP evaluating the feasibility of using surface water to augment groundwater supplies. If feasible, the City's water supply would include a combination of groundwater and surface water. Surface water will be used more predominantly during wet years when there are excess surface water supplies. Groundwater will be used more predominantly during dry years. The reduced pumping during wet years will reduce over drafting and allow the aquifer to recover.

The 2015 UWMP will also discuss (1) potential future water supplies considered by the City to be viable (e.g., recycled water) (2) potential effects of water quality on management strategies, and (3) supply reliability during a drought.

The 2015 UWMP will include information regarding the local groundwater basin including information regarding the hydrogeologic conditions and groundwater recharge and use. Such groundwater information is required by the UWMP Act for agencies that will or may rely on groundwater supply.

### **2.1.3 Water Conservation and Water Shortage Contingency Planning**

The water conservation reporting elements of the UWMP changed significantly for the 2015 UWMPs. AMCE will work with City staff to incorporate appropriate water conservation information into the 2015 UWMP based on the 2015 UWMP Guidebook.

Given the recent and severe drought and the State Water Resources Control Board's emergency drought regulations, Water Shortage Contingency Plans (WSCPs) are under increased scrutiny. The City does not currently have a WSCP and must adopt a water conservation ordinance to be included in the 2015 UWMP. The WSCP must comply with the requirements of California Water Code §10632 and include elements such as an implementation plan that will support the City in enacting the various water conservation measures and strategies during dry years.

## **2.2 PROPOSED SCOPE OF SERVICES**

### **2.2.1 Task I - Kick off meeting and Data Collection**

AMCE will provide the City with a preliminary list of information needs along with the preferred format. We assume that this information can be provided prior to the kick-off meeting in order to

help identify any key information or data gaps during the meeting. AMCE will review the relevant information and summarize it for inclusion in the 2015 UWMP, as appropriate.

At the kick-off meeting, AMCE and City staff will discuss project goals, opportunities, constraints, information needs, roles, responsibilities, schedule, and expectations. A key topic for discussion will be the project schedule to ensure efficient development of the UWMP.

A meeting with the City Planning staff will also be scheduled to ensure coordination between the 2015 UWMP and the City's General Plan. AMCE will work with the City to determine the water demand projections based on growth assumptions.

### **2.2.2 Task II - System Description**

AMCE will prepare a description of the City's water system. It will include a description of the physical system (transmission, treatment, and distribution facilities) to support the Water Conservation Act of 2009 requirements, discussions of changes to the water system, the water supplier's organizational structure, and any issues that affect the water system. It will also include a description of the climate, population, and demographics.

### **2.2.3 Task III - System Demands**

This Task will include a description of the urban water system demands, including calculating the City's baseline (base daily per capita daily) water use and interim and urban water use targets. The system demands will quantify the water system demand by category and will project them over the planning horizon of the UWMP.

### **2.2.4 Task IV - Water Supply Availability**

This task will include a description of the sources of water available to the City. It will include a description of each water source, source limitations, and water quality. It will also include a discussion about surface water, recycled water, desalinated water, and stormwater. It will also include information about planned future water supply projects.

### **2.2.5 Task V - Water Supply Reliability and Water Shortage Contingency Planning**

This Task will provide a comparison of projected water supplies and demands and will assess the overall reliability of future supplies regardless of drought or emergency conditions. This Task will also provide a discussion about how the water sources can vary as a result of emergency or other external influences such as system or other limitations, as well as the water supplier's planned response.

This Task will include the preparation of a drought contingency plan—the water supplier's response and planning for changes or shortages in water supplies.

### **2.2.6 Task VI - Demand Management Measures**

This Task will provide a description of Demand Management Measures (DMMs). DMMs are mechanisms a water supplier implements to increase water conservation. The UWMP will include a description for each DMM listed in the legislation

The goal of this Task is to provide a comprehensive description of the water conservation programs that are currently implemented and those planned to be implemented. The section should additionally provide general information on the measures the supplier plans to implement to meet its urban water use target.

#### **2.2.7 Task VII - Preparation of Draft UWMP and attend Public Meeting**

AMCE will meet with City staff to discuss the Draft 2015 UWMP to finalize the Public Review Draft UWMP. Based upon this meeting, AMCE will prepare the Public Review Draft UWMP and submit copies to the City.

After at least a 30-day review period, AMCE will work with City staff to present the Public Review Draft UWMP at a public hearing. AMCE will prepare for this meeting, including developing an agenda, staff report, and presentation.

Following the City Council meeting, AMCE will follow up with the City staff to discuss any comments offered on the Public Review Draft UWMP and to determine how to address them in the Final 2015 UWMP.

#### **2.2.8 Task VIII - Preparation and Filing of Final UWMP**

As appropriate, AMCE will incorporate comments received at the public hearing into a Final 2015 UWMP, as well as the City Council's resolution to adopt the 2015 UWMP. The Final 2015 UWMP will be delivered, including supporting tables, figures, and appendices, to the City in the following formats:

- Three paper copies of the final 2015 UWMP;
- Electronic file in Adobe PDF format; and
- Electronic file in Microsoft Word format

Within 30 days of City Council adoption, AMCE will forward the Final 2015 UWMP on the City's behalf to DWR, and the California State Library. Proof of delivery would be provided to the City.

## Exhibit 2 Fee Schedule

### ESTIMATED LEVEL OF EFFORT AND PROPOSED FEE

#### 6.1 ESTIMATED LEVEL OF EFFORT

The following table shows an estimate of the level of effort in staff hours assigned to each of the Tasks in the Scope of Work. The estimated level of effort contains the hours by job classification. The estimates provided herein are preliminary based on our current understanding of the project.

Task	Alfonso Manrique, PE Project Manager	Angela Hall Water Resources Engineer	Norma Chavez Administrative Assistant
Task I – Kickoff meeting and Data Collection	6	6	0
Task II – System Description	4	16	2
Task III – System Demands	4	16	2
Task IV – Water Supply Availability	6	24	2
Task V – Water Supply Reliability and Water Shortage Contingency Planning	8	32	2
Task VI – Demand Management Measures	8	24	2
Task VII – Preparation of Draft UWMP and attend Public Meeting	8	40	4
Task VIII – Preparation and Filing of Final UWMP	8	24	4
<b>Total</b>	<b>52</b>	<b>182</b>	<b>18</b>

### 6.1 Proposed Compensation

The following table shows an estimate of the engineering fees for each of the Tasks in the Scope of Work. The estimate includes labor costs and other direct costs (including expenses). A copy of the current rate Schedule is included in Appendix C. Reimbursable or direct costs, which include duplication costs, mileage, fax, phone, computers, etc., are calculated at a rate of 8 percent of labor cost.

Task	Fee
Task I – Kickoff meeting and Data Collection	\$1,580
Task II – System Description	\$2,490
Task III – System Demands	\$2,490
Task IV – Water Supply Availability	\$3,680
Task V – Water Supply Reliability and Water Shortage Contingency Planning	\$4,870
Task VI – Demand Management Measures	\$3,930
Task VII – Preparation of Draft UWMP and attend Public Meeting	\$5,920
Task VIII – Preparation and Filing of Final UWMP	\$4,040
<b>Total</b>	<b>\$29,000</b>

### Appendix C – Rate Schedule

**Fees for Professional Services Hourly Rate Schedule** (Effective January 1, 2019)

#### CLASSIFICATION

#### RATE

##### Engineering

Assistant Engineer.....	\$80.00 per hour
Associate Engineer.....	\$90.00 per hour
Water Resources Engineer.....	\$105.00 per hour
Principal Engineer.....	\$125.00 per hour
Project Manager .....	\$125.00 per hour

##### Designing/Drafting

Design CADD Operator .....	\$7.00 per hour
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##### Support Staff

Administrative Assistant.....	\$55.00 per hour
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##### Miscellaneous

Fax.....	\$0.10 per page
8"x11" Copies/Impressions.....	\$0.20 per page
Reproducible Copies (Mylar) .....	\$1.00 per sq. ft.
Reproducible Copies (Bond).....	\$1.00 per sq. ft.
Mileage .....	\$0.55 per mile
Airfare, Meals and Lodging.....	At cost

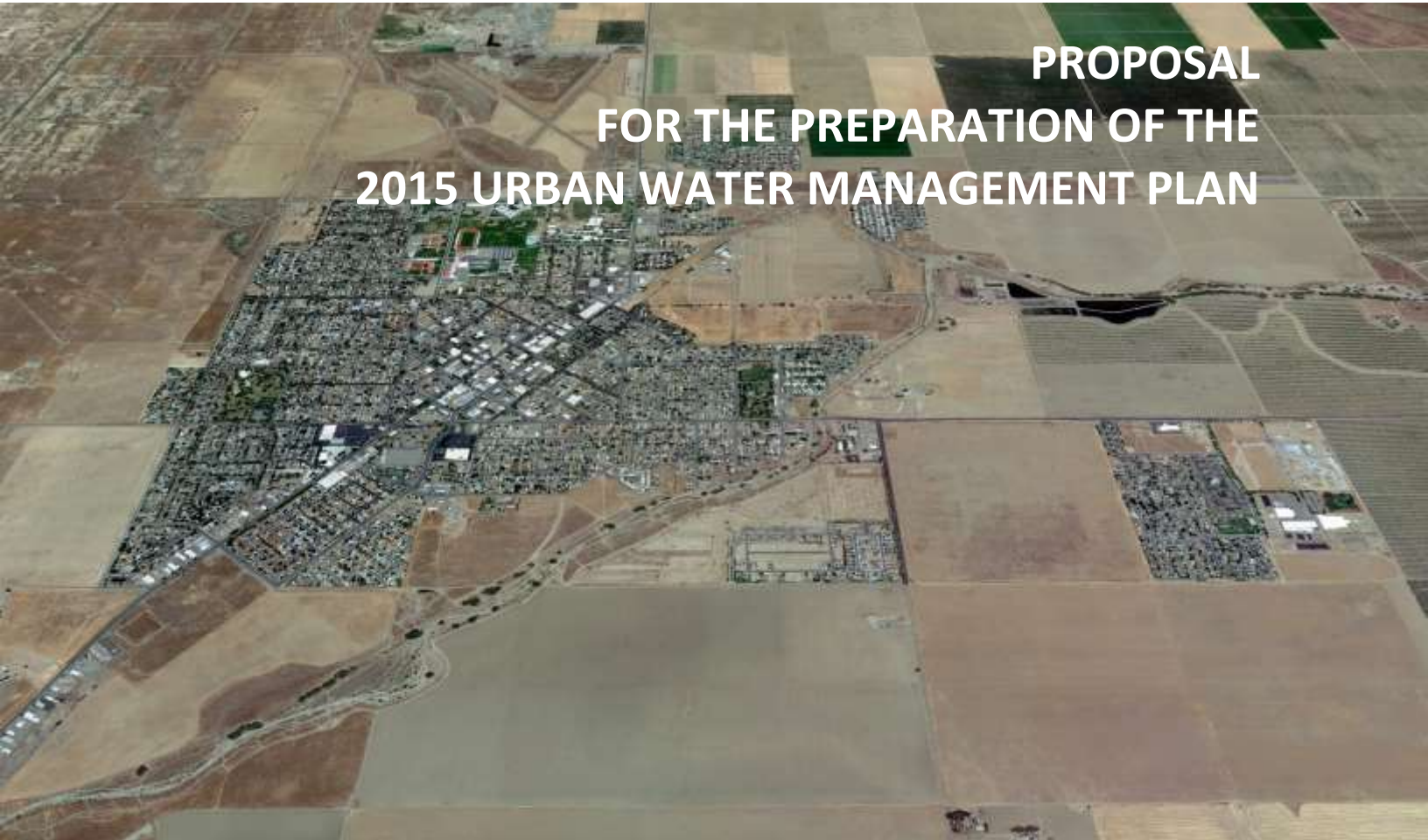
Notes:

1. Standard Hourly Rates include salaries and wages paid to personnel in each billing class plus the cost of customary and statutory benefits, general and administrative overhead, non-project operating costs, and operating margin or profit.
2. It is understood and agreed that these rates and charges include normal equipment and materials used in connection with the production of the required engineering and/or architectural services. If authorized by the client, an overtime premium multiplier of 1.5 will be applied to the direct wage cost of hourly personnel who work overtime in order to meet a deadline which cannot be met during normal hours. Applicable sales taxes, if any, will be added to these rates.
3. Fee schedule is subject to general revision. New equipment categories and charges may be added or revised from time to time.

# City of Coalinga



## PROPOSAL FOR THE PREPARATION OF THE 2015 URBAN WATER MANAGEMENT PLAN



Submitted on November 22, 2019





5150 N Sixth Street, Suite 124  
Fresno, CA 93710  
Phone: 559.473.1371  
Fax: 559.513.8449

November 22, 2019

Larry Miller  
City of Coalinga  
155 W Durian  
Coalinga, CA 93210

**Re: Proposal for Preparation of 2015 Urban Water Management Plan**

AM Consulting Engineers, Inc. (AMCE) is pleased to submit this Proposal for the preparation of the City of Coalinga's (City) 2015 Urban Water Management Plan (UWMP). This Proposal demonstrates AMCE's technical competence and relevant experience preparing Urban Water Management Plans (UWMP). We appreciate the City for considering us to prepare the 2015 UWMP and we are excited to be part of this project.

AMCE is a civil/environmental engineering firm located in Fresno that provides a variety of project management, planning, design, and construction management services for water, wastewater, and recycled water projects. AMCE's principal and owner, **Mr. Alfonso Manrique, PE**, has been serving clients in Central California for over 16 years. Prior to founding AMCE in 2011, Mr. Manrique was a principal engineer with AECOM, one of the nation's largest engineering consulting firms. Mr. Manrique is very familiar with the requirements of the Urban Water Management Planning Act (UWMPA) and has prepared numerous 2015 UWMPs. Furthermore, Mr. Manrique was a member of the advisory committee that worked with the California Department of Water Resources (DWR) in developing the 2015 UWMP Guidelines (see Appendix B).

Our team consist of a talented and experienced team of professionals who have excellent knowledge and understanding of water resource planning. We are confident that we can and will serve the City's best interests for the following reasons:

- Extensive relevant experience and technical competence. AMCE has extensive experience and demonstrated technical competence with the preparation of UWMPs. The 2015 UWMP is significantly different from the previous 2005 and 2010 versions of the UWMP. AMCE is very familiar with those changes having been a part of the guideline development. Section 3 of this SOQ highlights some of AMCE's relevant experience. Most of our experience is with Central Valley cities similar in size and water supply characteristics to the City.
- Project Team Commitment. Our Team is committed to exceed City's expectations and achieve a high level of satisfaction. We will focus on providing the City personal attention and on delivering superior quality services in a timely and cost effective manner. Our team will be dedicated to serve the City and assist staff to complete this project successfully. Our team members are responsive and willing to go the extra mile to deliver superior quality services and build long term relationships.
- Local experience and demonstrated understanding of the City. AMCE has assisted the City over the last 19 years with various water and wastewater related tasks. AMCE understands the current water supply challenges that need to be addressed in the 2015 UWMP. Furthermore,



AMCE is also very familiar with other regional water suppliers such as Westlands Irrigation District whose input needs to be considered in the 2015 UWMP.

We look forward to the opportunity to begin working with the City on the preparation of the 2015 UWMP. Thank you again for considering AMCE and if you have any questions during the review of this SOQ do not hesitate to call me at (559) 473-1371 Ext. 201 or e-mail me at [alfonso.manrique@am-ce.com](mailto:alfonso.manrique@am-ce.com).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Alfonso Manrique', with a long horizontal flourish extending to the right.

Alfonso Manrique, PE  
Principal

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## Section 1

# FIRM OVERVIEW

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**AM Consulting Engineers, Inc. (AMCE)** is a civil/environmental engineering firm that specializes in water, wastewater, and recycled water projects. We are proud of our expertise and ability to provide clients a full spectrum of services that include project planning and design, bidding services, project management and construction engineering services. Our staff includes engineers, surveyors, designers, inspectors, and administrative staff.

AMCE is a California Corporation that was established in 2011 by Alfonso Manrique who had the desire to provide a higher level of service that clients deserve. AMCE is a certified as a Disadvantaged Business Enterprise (DBE #42733). At AMCE, we are able to better focus our efforts on our clients, be more responsive to their needs, improve efficiency, and enhance cost effectiveness.

AMCE's founding philosophy was based on superior values of professionalism, competence, hard work ethics, attention to detail, value, and responsiveness to clients. AMCE is highly committed to client satisfaction and focuses on providing the personal attention that clients deserve and on delivering superior quality services in a timely and cost-effective manner. Our track record speaks for itself!

AMCE is committed to putting its clients first and providing them the prompt and personal attention they deserve and that is required to complete tasks and projects in a timely manner. Team members of our firm are responsive and willing to go the extra mile to deliver superior quality services and build long term relationships. We have the in-house staff necessary to assemble a best suited and cost-effective team to perform virtually all Engineering tasks for this project.

AMCE is ready to dedicate the time and staff resources necessary to meet the City of Coalinga's schedule for this project. We fully understand the importance of meeting deadlines and staying within budgets. Our knowledge, experience and familiarity with the processes that most projects must go through enable us to remain efficient and minimize the time necessary to perform tasks.

We take pride in preparing UWMPs that are technically correct, complete and clear. This in turn will usually result in fewer comments and a faster path to adoption. We always look for ways to improve the final product that will result in further cost savings to the client. Our proven team is able and ready to provide this same level of services to the City in a timely and cost-effective manner.

## Section 2

# PROPOSED SCOPE OF SERVICES

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### 2.1 PROJECT UNDERSTANDING

The Urban Water Management Planning Act (UWMPA) requires every “urban water supplier” to prepare (or modify) and adopt an Urban Water Management Plan every five years. The goal of the UWMP is to assess current demands and supplies over the 20-year planning horizon and consider various drought scenarios to ensure adequate water supplies are available to meet existing and future demands. The UWMP Act also requires water shortage contingency planning and drought response actions be included in a UWMP.

The UWMP is required as a condition of application for various water system grant and loan funding opportunities. The City does not have a current UWMP on file with DWR. The deadline for the adoption of the 2015 UWMP has long passed.

AMCE has an excellent understanding of the City’s water supply infrastructure and the challenges that the City’s water supply faces. AMCE’s understanding has been developed over the years working with the City and other surrounding communities. The following summarizes our understanding of the important issues that need to be addressed in the UWMP:

#### 2.1.1 Water Demands

The City’s average water demand was 126 gallons per capita per day (gpcpd) in 2016 and 143 gpcpd in 2018. According to DWR, the statewide average baseline water use is 198 gpcpd based on UWMPs from 342 retail water agencies. The baseline water use differs regionally across the state with generally lower water use along the coast and increasing water use in the inland valleys. The San Joaquin River Valley average water use is 239 gpcpd which is higher than the statewide average. The City’s average is lower than the San Joaquin River Valley Average, but it appears to be increasing.

The Water Conservation Bill of 2009 (SB-7) requires a reduction of the statewide average per capita daily water consumption by 20 percent by December 31, 2020. The City’s 2015 UWMP will need to provide the City’s baseline water use, compliance water use, and water use targets for 2020. The DWR methodologies for calculating baseline demand were revised in the 2015 UWMP guidelines.

Confirmation of the baseline water use will be a key part of this UWMP as the City will not be able to modify its 2020 target once the 2015 UWMP is adopted. AMCE will identify critical information needed to calculate and optimize the City’s baseline water use and targets, as well as work with the City to identify the methods by which the City intends to meet its per capita water use targets.

#### 2.1.2 Water Supply Reliability

The City of Coalinga currently relies on solely surface water to meet customer potable water demands. The City’s water supply is subject to allocations determined by the USBR for South of the Delta Contractors. Based on the historical record, the City’s long-term average allocation is 85 percent of the total entitlement. However, for the 2015 UWMP due to recent environmental concerns in the Delta and

potential future impacts due to climate change, the normal year reliability should be revised to a more conservative figure.

The Pleasant Valley groundwater Subbasin is over drafted and groundwater quality is marginal. The use of groundwater as a supplemental water source has been explored in the past but it appears to be unfeasible due to the elevated cost of treatment.

The City's 2015 UWMP should include input from Westlands Water District and other members of the IRWMP evaluating the feasibility of using surface water to augment groundwater supplies. If feasible, the City's water supply would include a combination of groundwater and surface water. Surface water will be used more predominantly during wet years when there are excess surface water supplies. Groundwater will be used more predominantly during dry years. The reduced pumping during wet years will reduce over drafting and allow the aquifer to recover.

The 2015 UWMP will also discuss (1) potential future water supplies considered by the City to be viable (e.g., recycled water) (2) potential effects of water quality on management strategies, and (3) supply reliability during a drought.

The 2015 UWMP will include information regarding the local groundwater basin including information regarding the hydrogeologic conditions and groundwater recharge and use. Such groundwater information is required by the UWMP Act for agencies that will or may rely on groundwater supply.

### **2.1.3 Water Conservation and Water Shortage Contingency Planning**

The water conservation reporting elements of the UWMP changed significantly for the 2015 UWMPs. AMCE will work with City staff to incorporate appropriate water conservation information into the 2015 UWMP based on the 2015 UWMP Guidebook.

Given the recent and severe drought and the State Water Resources Control Board's emergency drought regulations, Water Shortage Contingency Plans (WSCPs) are under increased scrutiny. The City does not currently have a WSCP and must adopt a water conservation ordinance to be included in the 2015 UWMP. The WSCP must comply with the requirements of California Water Code §10632 and include elements such as an implementation plan that will support the City in enacting the various water conservation measures and strategies during dry years.

## **2.2 PROPOSED SCOPE OF SERVICES**

### **2.2.1 Task I - Kick off meeting and Data Collection**

AMCE will provide the City with a preliminary list of information needs along with the preferred format. We assume that this information can be provided prior to the kick-off meeting in order to help identify any key information or data gaps during the meeting. AMCE will review the relevant information and summarize it for inclusion in the 2015 UWMP, as appropriate.

At the kick-off meeting, AMCE and City staff will discuss project goals, opportunities, constraints, information needs, roles, responsibilities, schedule, and expectations. A key topic for discussion will be the project schedule to ensure efficient development of the UWMP.

A meeting with the City Planning staff will also be scheduled to ensure coordination between the 2015 UWMP and the City's General Plan. AMCE will work with the City to determine the water demand projections based on growth assumptions.

### **2.2.2 Task II - System Description**

AMCE will prepare a description of the City's water system. It will include a description of the physical system (transmission, treatment, and distribution facilities) to support the Water Conservation Act of 2009 requirements, discussions of changes to the water system, the water supplier's organizational structure, and any issues that affect the water system. It will also include a description of the climate, population, and demographics.

### **2.2.3 Task III - System Demands**

This Task will include a description of the urban water system demands, including calculating the City's baseline (base daily per capita daily) water use and interim and urban water use targets. The system demands will quantify the water system demand by category and will project them over the planning horizon of the UWMP.

### **2.2.4 Task IV - Water Supply Availability**

This task will include a description of the sources of water available to the City. It will include a description of each water source, source limitations, and water quality. It will also include a discussion about surface water, recycled water, desalinated water, and stormwater. It will also include information about planned future water supply projects.

### **2.2.5 Task V - Water Supply Reliability and Water Shortage Contingency Planning**

This Task will provide a comparison of projected water supplies and demands and will assess the overall reliability of future supplies regardless of drought or emergency conditions. This Task will also provide a discussion about how the water sources can vary as a result of emergency or other external influences such as system or other limitations, as well as the water supplier's planned response.

This Task will include the preparation of a drought contingency plan—the water supplier's response and planning for changes or shortages in water supplies.

### **2.2.6 Task VI - Demand Management Measures**

This Task will provide a description of Demand Management Measures (DMMs). DMMs are mechanisms a water supplier implements to increase water conservation. The UWMP will include a description for each DMM listed in the legislation

The goal of this Task is to provide a comprehensive description of the water conservation programs that are currently implemented and those planned to be implemented. The section should additionally provide general information on the measures the supplier plans to implement to meet its urban water use target.

### **2.2.7 Task VII - Preparation of Draft UWMP and attend Public Meeting**

AMCE will meet with City staff to discuss the Draft 2015 UWMP to finalize the Public Review Draft UWMP. Based upon this meeting, AMCE will prepare the Public Review Draft UWMP and submit copies to the City.

After at least a 30-day review period, AMCE will work with City staff to present the Public Review Draft UWMP at a public hearing. AMCE will prepare for this meeting, including developing an agenda, staff report, and presentation.

Following the City Council meeting, AMCE will follow up with the City staff to discuss any comments offered on the Public Review Draft UWMP and to determine how to address them in the Final 2015 UWMP.

### **2.2.8 Task VIII - Preparation and Filing of Final UWMP**

As appropriate, AMCE will incorporate comments received at the public hearing into a Final 2015 UWMP, as well as the City Council's resolution to adopt the 2015 UWMP. The Final 2015 UWMP will be delivered, including supporting tables, figures, and appendices, to the City in the following formats:

- ❖ Three paper copies of the final 2015 UWMP;
- ❖ Electronic file in Adobe PDF format; and
- ❖ Electronic file in Microsoft Word format.

Within 30 days of City Council adoption, AMCE will forward the Final 2015 UWMP on the City's behalf to DWR, and the California State Library. Proof of delivery would be provided to the City.

## Section 3

# RELEVANT EXPERIENCE

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### 3.1 OVERVIEW

This section provides relevant experience examples for some of the cities and districts in Central California that the AMCE's project team members have provided engineering services and/or prepared water supply planning technical studies. The following is a partial list of those AMCE Clients:

- Planada CSD
- Groveland CSD
- East Niles CSD
- City of San Joaquin
- City of Firebaugh
- City of Huron
- City of Orange Cove
- City of Reedley
- City of Kerman
- City of Gustine
- City of Livingston
- City of Madera
- City of Parlier
- City of Maricopa
- City of Newman
- City of Atwater
- City of Sanger
- City of Reedley
- Madera County

The previous list demonstrates that AMCE's team has an extensive amount of experience working with small and medium size water suppliers. Our extensive work in water resources with Central Valley Communities will facilitate the completion of the City's 2015 UWMP.

### 3.2 EXPERIENCE WITH URBAN WATER MANAGEMENT PLANS

AMCE has extensive experience in the preparation of water supply planning documents, such as Integrated Regional Water Management Plans, Urban Water Management Plans, Groundwater Management Plans, Water Conservation and Management Plans, Water Shortage Contingency Plans, and Water Supply Assessments (SB 610 reports).

AMCE is very familiar with the 2010 UWMP Guidelines. **Mr. Manrique was part of an Advisory Committee to the Department of Water Resources for the preparation of the 2015 UWMP Guidelines (see Appendix B).** The 2015 Guidelines introduced significant changes to the format of the UWMPs and it is crucial to understand the new guidelines. Our knowledge and familiarity with the upcoming changes will expedite the completion of the City's 2015 UWMP and will minimize delays in the review of the document by DWR staff.

AMCE team members have completed numerous 2015 UWMPs and similar water resources technical studies. The following are five of the most recent 2015 UWMPs completed by the AMCE team:



<b>Agency</b>	<b>UWMP Version</b>	<b>Contact</b>
City of Livingston	2015 UWMP	Jose Antonio Ramirez City Manager (209) 398-1721
City of Newman	2015 UWMP	Kathryn Reyes Public Works Director (209) 862-4448
City of Reedley	2015 UWMP	Russ Robertson Public Works Director (559) 637-4200
City of Sanger	2015 IRWMP	John Mulligan Public Works Director (559) 876-6300
City of Kerman	2015 UWMP	Ken Moore Public Works Director (559) 846-9388

### **3.3 EXPERIENCE WORKING WITH THE CITY OF COALINGA**

AMCE staff is also very familiar with the City of Coalinga and especially its water supply and wastewater infrastructure. Mr. Manrique has been working with the City of Coalinga for almost 20 years. During that time Mr. Manrique participated on the following project for the City:

- WWTP Expansion/Relocation Study
- Title 22 Engineering Report: Vierhus Effluent Reclamation Project
- Water System Master Plan
- Storm Drain Master Plan
- Sewer System Master Plan
- Title 22 Engineering Report: Westhills Property
- WWTP Primary Clarifier Rehabilitation
- WWTP Headworks Design Project

Our recent experience working with the City and our familiarity with the most current water supply challenges makes the AMCE team uniquely qualified for the preparation of the City's UWMP.

## Section 4

# PROJECT TEAM

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### 4.1 TEAM MEMBER ROLES

This Section provides an overview of AMCE's team for this project. AMCE's Team consists of a selected group of very talented and experienced engineers, each with a long record of success. Our team members take ownership of every project and take a personal interest in the successful completion of every project they participate in.

The following are brief summaries of the members of AMCE's Team. Resumes for each of the Team members are included in Appendix A.

#### **ALFONSO MANRIQUE, PE –Project Manager**

Mr. Manrique is a civil/environmental engineer with 19+ years of experience working in water resources planning. Mr. Manrique is the Principal and Owner of AM Consulting Engineers, Inc. Prior to establishing AMCE, Mr. Manrique was a senior engineer for AECOM, one of the largest national consulting firms.

Mr. Manrique is experienced in project management, planning and technical studies, and water resources engineering. Mr. Manrique has participated in the preparation of numerous UWMPs and was part of an Advisory Committee to the DWR for the development of the 2015 UWMP Guidelines. Mr. Manrique has successfully managed numerous projects some of which have received awards from engineering associations such as the City of Madera WWTP Expansion Project.

Mr. Manrique will be AMCE's primary contact for engineering services and consultations. He will provide overall project coordination and work closely with other team members and City staff.

#### **ANGELA HALL – Water Resources Engineer**

Ms. Hall is a civil engineer specialized in water resources issues and projects including agricultural and municipal water supply planning, and water conservation. Ms. Hall has extensive experience working with public agencies on municipal and agricultural water supply problems, including work with the U.S. Bureau of Reclamation (USBR) and California Department of Water Resources (DWR) projects.

Ms. Hall has been responsible for preparation of numerous water supply planning documents, such as Integrated Regional Water Management Plans, Water Shortage Contingency Plans, and Water Supply Assessments (SB 610 reports). **Ms. Hall is an AWWA certified water audit validator in the State of California.**

## Section 5

# PROPOSED PROJECT SCHEDULE

### 5.1 PROPOSED SCHEDULE

AMCE understands that time is of the essence on the execution of this project. The deadline for the submission of the 2015 UWMP has long passed and the City is unable to apply for any funding until the 2015 UWMP is submitted. AMCE has developed an aggressive schedule for the completion of the 2015 UWMP and we are committed to it.

We pride ourselves on completing projects on time and on budget and we will keep that commitment on this project. The following table shows a preliminary time schedule for the preparation of the 2015 UWMP. The time schedule provides the estimated weeks to completion of the various tasks counted from the City's Notice-to-Proceed (NTP). The preliminary time schedule includes a mandatory eight (8) week public review periods between the Draft 2015 UWMP and the Public Hearing.

Task	No. of Weeks to Complete (From NTP)
Task I – Kickoff meeting and Data Collection	2 Weeks
Task II – System Description	4 Weeks
Task III – System Demands	4 Weeks
Task IV – Water Supply Availability	6 Weeks
Task V – Water Supply Reliability and Water Shortage Contingency Planning	6 Weeks
Task VI – Demand Management Measures	6 Weeks
Task VII – Preparation of Draft UWMP	8 Weeks
Task VIII – Attend Public Hearing and Filing of Final UWMP	16 Weeks

## Section 6

# ESTIMATED LEVEL OF EFFORT AND PROPOSED FEE

### 6.1 ESTIMATED LEVEL OF EFFORT

The following table shows an estimate of the level of effort in staff hours assigned to each of the Tasks in the Scope of Work. The estimated level of effort contains the hours by job classification. The estimates provided herein are preliminary based on our current understanding of the project.

Task	Alfonso Manrique, PE Project Manager	Angela Hall Water Resources Engineer	Norma Chavez Administrative Assistant
Task I – Kickoff meeting and Data Collection	6	6	0
Task II – System Description	4	16	2
Task III – System Demands	4	16	2
Task IV – Water Supply Availability	6	24	2
Task V – Water Supply Reliability and Water Shortage Contingency Planning	8	32	2
Task VI – Demand Management Measures	8	24	2
Task VII – Preparation of Draft UWMP and attend Public Meeting	8	40	4
Task VIII – Preparation and Filing of Final UWMP	8	24	4
<b>Total</b>	<b>52</b>	<b>182</b>	<b>18</b>

## 6.2 PROPOSED COMPENSATION

The following table shows an estimate of the engineering fees for each of the Tasks in the Scope of Work. The estimate includes labor costs and other direct costs (including expenses). A copy of the current rate Schedule is included in Appendix C. Reimbursable or direct costs, which include duplication costs, mileage, fax, phone, computers, etc., are calculated at a rate of 8 percent of labor cost.

Task	Fee
Task I – Kickoff meeting and Data Collection	\$1,580
Task II – System Description	\$2,490
Task III – System Demands	\$2,490
Task IV – Water Supply Availability	\$3,680
Task V – Water Supply Reliability and Water Shortage Contingency Planning	\$4,870
Task VI – Demand Management Measures	\$3,930
Task VII – Preparation of Draft UWMP and attend Public Meeting	\$5,920
Task VIII – Preparation and Filing of Final UWMP	\$4,040
<b>Total</b>	<b>\$29,000</b>

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## **Appendix A - RESUMES**

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### **EDUCATION**

BS/Civil Engineering-  
University of Cantabria,  
Santander (Spain) 1998

MS/Environmental Engineering-  
Water and Wastewater  
Treatment  
University of New Orleans,  
Louisiana 1999

Master in Business  
Administration (MBA)  
California State University,  
Fresno 2004

### **YEARS OF EXPERIENCE**

19

### **REGISTRATIONS**

California Licensed Civil  
Engineer CA63673  
California Licensed General  
Engineering Contractor  
CA954166

### **AFFILIATIONS**

Associate Professor at California  
State University Fresno, Civil  
Engineering Department, Water  
and Wastewater.

Director of the California Water  
Environment Association,  
Central San Joaquin Valley  
Section

Mr. Manrique is a civil/environmental engineer with over 15 years of experience in water and wastewater related projects. Mr. Manrique specializes in process design of water and wastewater treatment systems, preparing construction documents, preliminary design reports, feasibility studies, infrastructure evaluation reports, project reports, and sewer revenue studies.

Mr. Manrique provides contract District Engineering Services to the Groveland Community Service District and contract City Engineering Services for the cities of Huron, Orange Cove, San Joaquin, Newman and Livingston. San Joaquin, Newman and Livingston.

## **Relevant Experience**

### **08/2011 – Present – AM Consulting Engineers**

Principal Engineer/founder of AM Consulting Engineers, a civil/environmental firm specialized in water and wastewater engineering services. Relevant Urban Water Management Experience includes:

- Groveland CSD – 2015 UWMP
- City of Livingston – 2015 UWMP
- City of Reedley – 2015 UWMP
- City of Newman – 2015 UWMP
- City of Sanger – 2015 UWMP
- City of Kerman – 2015 UWMP

Other relevant water and wastewater experience includes:

- City of Orange Cove Surface Water Treatment Plant Expansion.
- City of Huron Surface Water Treatment Plant Expansion
- City of Huron Recycled Water System Improvements
- 
- Groveland CSD – Surface Water Treatment Plant
- City of Reedley – WWTP Secondary Clarifier Rehabilitation
- City of Livingston – WWTP Process Optimization
- Planada CSD –WWTP Improvement Project.

- Yosemite Lakes Park – Iron and Manganese removal treatment system and booster pump station improvements.
- Central Valley Cattle Hide – On-site wastewater treatment and disposal system.
- AGUSA – Industrial Wastewater Treatment Plant for tomato powder producer in Lemoore, CA.
- City of San Joaquin –Sewer Collection System Improvement Project.
- City of Livingston – Arsenic and Manganese Removal Wellhead Treatment
- Groveland CSD – Watershed Sanitary Survey
- City of Orange Cove – Water and Sewer Rate Studies.
- City of Orange Cove – Wastewater Treatment Plant Energy Efficiency Audit
- City of Orange Cove – Design of Wastewater Treatment Plant Energy Efficiency Improvements
- City of Huron – Audit and Design of Wastewater Treatment Plant Energy Efficiency Improvements
- Planada CSD – Salinity Evaluation and Minimization Plan
- Planada CSD – Toxicity Reduction Workplan
- Planada CSD – Site-specific Salinity study
- Chukchansi Gold Casino and Resort – Iron and Manganese Removal Treatment.
- City of Madera – WWTP Permitting
- East Niles CSD – Sewer Rate Study
- City of Gustine – Industrial Sewer Rate Study
- City of Livingston – Well #15 Secondary MCL Waiver
- City of Livingston – Well #13 Arsenic Treatment Feasibility Study
- City of Firebaugh – Main Sewer Lift Station Rehabilitation
- Hughson Nut – Groundwater Monitoring Wells
- Double DD Farms – Tertiary Filtration at the PVSP WWTP

**09/2008 – 08/2011 – AECOM**

**City of Tehachapi WWTP Upgrade, Tehachapi, CA.** Project Engineer for preparation of construction documents for an upgrade of the City's WWTP. The WWTP upgrade included new headworks, larger aeration units in the existing oxidation ditch, new sludge recirculation pumps and a new sludge dewatering system



consisting of a 100 gpm screw press.

**City of Fresno Sewer Rehabilitation – Fresno/College Ave, Fresno, CA.** Project Engineer for the preparation of construction documents for the rehabilitation of sewer lines within the City of Fresno. The rehabilitation method consisted of a Cured-In-Place-Pipe (CIPP). Responsible for Client communication and overall project performance.

**Laguna County Sanitation District Digester Dome Replacement, Santa Maria, CA.** Project Manager for the design and construction support of a new anaerobic sludge digester dome at the Laguna County Sanitation District WWTP.

**Hughson Nut, Inc. –Groundwater Monitoring Wells, Hughson, CA.** Project Manager for the design and construction of three new groundwater monitoring wells including the preparation of an installation work plan and a monitoring well completion report. Responsible for permitting, bidding and construction support.

**City of Madera Groundwater Monitoring Plan Update, Madera, CA.** Project Manager for the update of the City's groundwater monitoring plan. Improvements to the plant included the installation of four additional groundwater monitoring wells including design and construction, preparation of the installation work plan and a monitoring well completion report. Responsible for permitting, bidding and construction support.

**Diamond Valley Ranch Title 22 Report, South Tahoe Public Utilities District, CA.** Project manager for the preparation of a Title 22 Engineering Report for the disposal of 8 MGD of treated wastewater on the Diamond Valley Ranch. Responsible for presenting progress to District Board of Directors and coordination with environmental consultants.

**DeFrancesco Dehydrator, Olam West, Inc., Firebaugh, CA.** Project engineer for the preparation of a Report of Waste Discharge for the discharge of industrial process wastewater from a new onion dehydrator.

**Chukchansi Gold Casino and Resort, Coarsegold, CA.** Project manager for the preparation of a report evaluating the WWTP capacity and for providing assistance with pilot testing and design of an iron and manganese removal treatment system

**Oakhurst Sewer Master Plan and Wastewater Treatment Master Plan - Oakhurst, CA.** Project Manager for the preparation of a Sewer Collection System Master Plan and a Wastewater Treatment Plant Master Plan for the community of Oakhurst.

**Nipomo CSD WWTP Upgrade, Nipomo, CA.** Project engineer for the design of a new WWTP for the community of Nipomo, CA. The WWTP included lift station, screening, grit removal, extended aeration using Biolac, secondary clarification, sludge thickening and dewatering.

**Children's Hospital Central California WWTP Upgrade, Madera, CA.** Project manager for the preparation of a regulatory compliance work plan to improve the effluent quality of the Hospitals WWTP and for the design of the improvements identified in the report.

**City of Madera Satellite WWTP for DG Power International, Madera, CA.** Project Engineer for preparation of a feasibility study for a new satellite WWTP at the City of Madera for providing cooling water for a proposed power plant to produce an RO-treated advance-quality effluent suitable for the cooling of the turbines.

**01/2007- 07/2008 – GRUPO OHL, INIMA,**

**Location: Madrid, SPAIN**

Managing Engineer at the Sur-Oriental WWTP. Responsible for the overall operation and maintenance of a 20 MGD secondary wastewater treatment facility. Oversaw a staff of 30 wastewater treatment plant operators, laboratory personnel, process engineers, and general maintenance. General duties included treatment process control, communication with the local sewer authorities, daily reporting, development and implementation of a maintenance program, and implementation of capital improvements.

**08/2001 – 12/2006 – BOYLE ENGINEERING CORPORATION**

**City of Madera WWTP Upgrade/Expansion, Madera, CA.** Project Engineer for the upgrade/expansion of the City of Madera WWTP from 7-MGD to 10-MGD. The expanded WWTP added biological nutrient removal as part of the treatment process. The design also included additional digestion and new permanent sludge dewatering facilities. Mr. Manrique designed a dewatering system consisting of a digested sludge pumping station, two 100 gpm sludge centrifuges, polymer dosing and supporting structure for dewatered sludge loading.

**City of Madera WWTP Interim Sludge Centrifuge Facility, Madera, CA.** Project Engineer for design of an interim sludge centrifuge facility including a 7,500-sq ft concrete-lined sludge receiving area.

**Del Rey Community Services District, Industrial WWTP, Del Rey, CA.** Project Engineer for industrial WWTP design at the Del Rey WWTP. The WWTP was designed to treat and dispose wastewater from nearby raisin and fruit packing facilities. Responsible for the permitting and startup of the WWTP.

**Delhi County Water District WWTP Expansion, Delhi, CA.** Project Engineer for preparation of an evaluation of the District's proposed expansion for the WWTP including treatment and disposal methods.

**Fresno County Juvenile Justice Campus Wastewater Treatment and Disposal Feasibility Study, Fresno, CA.** Project Engineer for preparation of a feasibility study to dispose of the 0.25-MGD projected sewer flow generated at the proposed Juvenile Justice Campus in Fresno County. The alternatives evaluated included disposal to nearby sewer systems, such as the City of Fresno or Malaga County, versus construction of an on-site treatment plant.

**City of Coalinga Wastewater Treatment Plant Expansion/Relocation Study, Coalinga, CA.** Project Engineer for preparation of a feasibility study to relocate the City's WWTP and for developing suitable reclamation reuses involving agricultural irrigation, landscape irrigation, and groundwater recharge.

**Santa Nella County Water District WWTP, Santa Nella, CA.** Project Engineer for design of a new 3-MGD WWTP for the Santa Nella CWD. The project included the design of a completely new secondary WWTP consisting of influent lift station, headworks, oxidation ditches, secondary clarifiers and an innovative biosolids reduction system known as Cannibal. The design also included high rate, lined sludge dewatering beds for the dewatering of the biosolids.

**City of Atwater WWTP Expansion Pre-design Report, Atwater, CA.** Project Engineer for preparation of a pre-design report for the expansion of the City of Atwater WWTP and its upgrade to tertiary

treatment to meet new regulatory requirements. The technical report evaluated several treatment and sludge dewatering alternatives. Sludge dewatering alternatives considered included centrifuges and rotary presses.

#### **01/2000 – 07/2001 – RM ASSOCIATES**

**City of Mendota Wastewater Treatment Plant Expansion, Mendota, CA.** Assistant Project Engineer for expansion of a 1.0-MGD wastewater treatment plant to double its treatment capacity. The work included aeration and review of aeration equipment, earthwork calculations, and permitting with the Regional Water Quality Control Board.

**City of Orange Cove Wastewater Treatment Plant Expansion, Orange Cove, CA.** Assistant Project Engineer for expansion of the wastewater treatment plant. The work included the preparation of a feasibility study with alternatives for comparison. Responsible for coordination between several funding agencies.

**Orange Avenue Landfill Groundwater Monitoring Program, Fresno, CA.** Field Project Engineer for ongoing groundwater monitoring events at a municipal solid waste facility. Responsible for collecting groundwater samples, interpretation of results, and periodic reporting to public agencies.

#### **07/1998 – 12/1999 – URBAN WASTE MANAGEMENT RESEARCH CENTER**

**Location: New Orleans, LA**

Research engineer responsible for developing a plan with optimization recommendations for three WWTPs in the Jefferson Parish, LA. Responsible for the operation of a 20,000 gpd pilot plant including sampling, testing and statistical analysis of the results.

### **PROFESSIONAL REGISTRATIONS/AFFILIATIONS**

California Licensed Civil Engineer CA63673

California Licensed General Engineering Contractor CA954166

### **PUBLICATIONS**

*"Pilot Plant Evaluation of the Dual TF/SC Process,"* 1999. Master's Thesis.

UWMRC, University of New Orleans.

"The effect of air-induced velocity gradient and dissolved oxygen on bioflocculation in the TF/SC process," 2001. Journal of Environmental Engineering, ASCE.

**EDUCATION**

BS Civil Engineering  
California State University  
Fresno, 2016

**YEARS OF EXPERIENCE**

Total: 4  
Years with AMCE: 4

Mrs. Hall is a civil engineer focusing on water and wastewater related projects. Mrs. Hall has a background in water and wastewater treatment systems and experience in preparing preliminary design reports, feasibility studies, and project reports. Ms. Hall has participated in the preparation of multiple Urban Water Management Plans from data collection to final adoption and submission to the State.

**Relevant Experience**

The following are the UWMPs that Mrs. Hall has assisted with:

- Groveland CSD – 2015 UWMP
- City of Livingston – 2015 UWMP
- City of Reedley – 2015 UWMP
- City of Newman – 2015 UWMP
- City of Sanger – 2015 UWMP
- City of Kerman – 2015 UWMP

Other relevant experience includes:

**City of Huron Recycled Water Feasibility Study, Huron, CA**

Assistant Engineer for preparation of a Clean Water State Revolving Fund (CWSRF) feasibility study for recycled water improvements at the Wastewater Treatment Plant (WWTP). The improvements include constructing a recycled water distribution system to transport treated effluent to a 200-acre reclamation field for agricultural irrigation.

**Biola Community Services District WWTP Improvement Planning Study, Biola, CA**

Assistant Engineer for preparation of a CWSRF planning study for WWTP improvements. The improvements to the 0.2 MGD facility include aerated lagoon reactor, secondary clarifiers, a sludge handling system, and solar photovoltaic system.

**City of Maricopa Sanitary Sewer Collection System Improvement Planning Study, Maricopa, CA**

Assistant Engineer for preparation of a CWSRF planning study for improvements to the sewer collection system. Improvements include a new lift station, new WWTP headworks, replacing and installing approximately 7 miles of sewer pipeline, and constructing 127 new manholes.

**City of Sanger 2015 Urban Water Management Plan, Sanger, CA**

Assistant Engineer for preparation of the City's 2015 Urban Water Management

Plan (UWMP). The 2015 UWMP included an evaluation of the City's past water use, assessment of the City's water sources long-term reliability, and described the City's demand management measures and water shortage contingency plan.

**Franklin County Water District Wastewater Collection and Treatment System Improvement Planning Study, Franklin County Water District, CA**

Assistant Engineer for preparation of a CWSRF planning study for improvements to the wastewater collection and treatment systems. Improvements to the sewer collection system include replacing approximately 0.88 miles of pipeline, rehabilitating approximately 0.90 miles of pipeline with cured-in-place-pipe. Improvements to the 0.4 MGD facility include aerated lagoon reactor, secondary clarifiers, a sludge handling system, and evaporation/percolation ponds.

# **Appendix B - AMCE’s ACKNOWLEDGEMENT IN 2015 UWMP GUIDELINES**

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# 2015 Urban Water Management Plans Guidebook for Urban Water Suppliers

Final  
March 2016



California  
Department of  
Water Resources

State of California  
**Edmund G. Brown Jr., Governor**

California Natural Resources Agency  
**John Laird, Secretary for Natural Resources**

Department of Water Resources  
**Mark W. Cowin, Director**

Carl Torgersen  
**Chief Deputy Director**

Waiman Yip  
**Policy Advisor**

**Cathy Crothers**  
Chief Counsel

**Ed Wilson**  
Assistant Director  
*Public Affairs Office*

**William A. Croyle**  
Deputy Director  
*Statewide Emergency Management  
and Security*

**Kasey Schimke**  
Assistant Director  
*Legislative Affairs*

**John Pacheco**  
Acting Deputy Director  
*California Energy Resources  
Scheduling*

**Katherine S. Kishaba**  
Deputy Director  
*Business Operations*

**Anecita Agustinez**  
Government and Community  
Liaison

**Mark Andersen**  
Acting Deputy Director  
*State Water Project*

**Gary B. Bardini**  
Deputy Director  
*Integrated Water Management*

**Carmel M. Brown and Eric Nichol**  
Assistants to the Deputy Director

**John Andrew**  
Assistant Deputy Director  
*Climate Change*

## Acknowledgements

The 2015 Guidebook for Urban Water Suppliers was written with the assistance of the following consultants:

Reinhard Sturm and Kate Gasner, Water Systems Optimization

Greg Young, Tully and Young

Anil Bamezai, Western Policy Research

### Special Thanks to the Guidebook Advisory Committee For Their Generous Contributions of Time and Expertise

Alfonso Manrique  
AM Consulting Engineers

Jenny Gain  
CUWA and Brown and Caldwell

Paul Selsky  
Brown and Caldwell

Andrew Florendo  
Solano County Water Agency

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Central Coast Water Authority

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Justin Scott-Coe  
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Irvine Ranch Water District

Randy Werner  
City of Livermore

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San Diego County Water Authority

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ARCADIS

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Casitas Municipal Water District

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Mary Lou Cotton  
Kennedy Jenks

Tracy Quinn  
Natural Resources Defense Council

Edgar Fandialan  
Metropolitan Water District

Orrin Plocher  
Freshwater Environmental Services

# **Appendix C - RATE SCHEDULE**

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**Fees for Professional Services  
Hourly Rate Schedule**

(Effective January 1, 2019)

<b>CLASSIFICATION</b>	<b>RATE</b>
<b>Engineering</b>	
Assistant Engineer .....	\$80.00 per hour
Associate Engineer .....	\$90.00 per hour
Water Resources Engineer .....	\$105.00 per hour
Principal Engineer... ..	\$125.00 per hour
Project Manager.....	\$125.00 per hour
<b>Designing/Drafting</b>	
Design CADD Operator .....	\$7.00 per hour
<b>Support Staff</b>	
Administrative Assistant.....	\$55.00 per hour
<b>Miscellaneous</b>	
Fax.....	\$0.10 per page
8"x11" Copies/Impressions .....	\$0.20 per page
Reproducible Copies (Mylar) .....	\$1.00 per sq. ft.
Reproducible Copies (Bond).....	\$1.00 per sq. ft.
Mileage .....	\$0.55 per mile
Airfare, Meals and Lodging .....	At cost

Notes:

1. Standard Hourly Rates include salaries and wages paid to personnel in each billing class plus the cost of customary and statutory benefits, general and administrative overhead, non-project operating costs, and operating margin or profit.
2. It is understood and agreed that these rates and charges include normal equipment and materials used in connection with the production of the required engineering and/or architectural services. If authorized by the client, an overtime premium multiplier of 1.5 will be applied to the direct wage cost of hourly personnel who work overtime in order to meet a deadline which cannot be met during normal hours. Applicable sales taxes, if any, will be added to these rates.
3. Fee schedule is subject to general revision. New equipment categories and charges may be added or revised from time to time.



