TUOLUMNE UTILITIES DISTRICT
18885 NUGGET BLVD ● SONORA, CA 95370
(209) 532-5536 ● Fax (209) 536-6485

Committee Chair: D. Boatright

Member: L. Murphy

Wastewater/Regional Sewer Advisory Committee Agenda
Monday, February 8, 2021 – 10:30 a.m.
18885 Nugget Blvd., Sonora, California

In order to protect public health and the safety of our Tuolumne Utilities District ratepayers and members of the public against the COVID-19 pandemic, the TUD office, Board and Committee Meetings are physically closed to the public. Please see paragraphs below for additional information.

Notice: This meeting will be held in accordance with Executive Order N-29-20, issued by California Governor Gavin Newsom on March 17, 2020, the Ralph M. Brown Act (California Government Code Section 54950, et seq.), and the Federal Americans with Disabilities Act. No physical public meeting location will be provided for this meeting. Instead, the Committee will hold this meeting telephonically using Zoom. All members of the public may observe and participate in the meeting:

- **Via video conferencing at: https://us02web.zoom.us/j/83014137873?pwd=NHBBQmN4eUcvdW11R3BuMzgzWjFnQT09**
- **Via teleconference by calling (253) 215-8782 or (301) 715-8592**
- **US Meeting ID: 830 1413 7873**
- **Password: 739456**
- **Public may also observe and listen to this meeting through the District's website at https://tudwater.com/board-of-directors/meeting-agenda-minutes-video/**

1. Review Proposals for a Resident Project Representative for the Sonora Regional Wastewater Treatment Facility Project and Provide a Recommendation to the Board at the February 9, 2021 Board Meeting

2. Review the attached Summary of Equipment Ranking for equipment to be installed as part of the Sonora Regional Wastewater Treatment Facility (SRWWTF) Project

Note: Committee Agenda Material can be inspected at the District Office located at 18885 Nugget Blvd., Sonora, CA and on our website at www.tudwater.com.

In accordance with the Americans with Disabilities Act, if you need special assistance (i.e. auxiliary aids or services) in order to participate in this public meeting, please contact the Clerk of the Board, Melissa McMullen, and (209) 532-5536 ext. 510. Notifications 48 hours prior to the start of the meeting will enable the Clerk to make reasonable accommodations to ensure accessibility to this public meeting.

TUD Wastewater Committee
Meeting of February 8, 2021
Item #1

Review Proposals for a Resident Project Representative for the Sonora Regional Wastewater Treatment Facility Project and Provide a Recommendation to the Board at the February 9, 2021 Board Meeting

Recommendation

Staff recommends the Wastewater Committee review the attached proposals for a Resident Project Representative for the Sonora Regional Wastewater Treatment Facility and requests the Committee provide a recommendation to the full Board at its February 9, 2021 Board meeting.

Background

On December 2, 2020, the District issued a Request for Proposals for Resident Project Representative (RPR) Services. The scope of work for a RPR is very similar to a "construction inspector". On January 8, 2021, the District received, opened, and evaluated eight proposals. Proposals were evaluated based on the firm's relevant experience (both in project size and scope), the firm's ability to provide the scope of services required by the United States Department of Agriculture (USDA), and the experience level of the firm's RPR. On January 22, 2021, three firms were interviewed. Following the interview, both District Staff and Pacific Advanced Civil Engineering (PACE) agreed that Mountaineering Engineering was best suited for the job. RPR Rates are provided in the table below:

Company Name	Hourly RPR Rate
*Mountaineering Engineering	$125
CORE Inspections	$120
*SRD	$135
ICM	$135
Blackwater Engineering Consultants	$145
*Consolidated CM	$154
Kennedy Jenks	$180
Anchor QEA	$189

*Firm was interviewed on January 22, 2021

Discussion

TUD expects to advertise the construction project for bid in February. Prior to bidding, USDA requires a Resident Project Representative Services Agreement be executed. Mountaineering Engineering's scope of work includes general inspection, reviewing progress schedules and submittals, creating daily inspection reports, and observing the overall quality of the work.

The estimated budget for RPR Services, based on a 2-year project duration, $455,000.

The proposed Resident Project Representative Services Agreement, Mountaineering Engineering's proposal, and the scope of work have been reviewed and approved by USDA.

Attachment A
Agreement for Resident Project Representative Services

TUOLUMNE UTILITIES DISTRICT
AGREEMENT FOR RESIDENT PROJECT REPRESENTATIVE SERVICES

THIS AGREEMENT, made by and between, Tuolumne Utilities District, California, sometimes referred to in these Contract Documents as "District", "TUD", or "Owner", and **Mountaineering Engineering** referred to in these Contract Documents as "Resident Project Representative":

RECITALS

WHEREAS, District desires to obtain services from Resident Project Representative as specified in Section 1; and

WHEREAS, Resident Project Representative is duly licensed, qualified and equipped to perform said services for the benefit of District; and

WHEREAS, the performance of such services by Resident Project Representative has been determined by District to be in the public interest.

NOW, THEREFORE, District and Resident Project Representative agree as follows:

1. **Scope of Work**. District engages the services of Resident Project Representative as an independent contractor to perform the work and render the services described in Resident Project Representative's Proposal to District dated January 8, 2021 and Revised on February 1, 2021 attached hereto as Exhibit A (hereinafter referred to as the "Work"). The Work is generally described as follows: provide Resident Project Representative Services in accordance with USDA Exhibit D for the Sonora Regional Wastewater Treatment Facility Project. Resident Project Representative shall (a) provide all labor, equipment, material, supplies, advice, consultation, analysis, administration, and preparation of policies, procedures and documents required or necessary to properly, competently and completely perform the Work; (b) determine the method, details and means of doing the Work; and (3) perform the Work in a manner commensurate with the professional standards of qualified and experienced personnel under similar circumstances at the same time in Tuolumne County in Resident Project Representative's field.

2. **Payment**. In exchange for the Work, District shall pay to Resident Project Representative a fee based on:

__X__ Payment will be based on actual time spent rendering services in accordance with the RPR Services rate contained in the proposal. The total fee for the Work shall not exceed **$455,000**, without further approval of the District. This fee shall include all of Resident Project Representative's costs and expenses related to the Work. On a monthly basis, Resident Project Representative shall submit to District an invoice for the Work performed which shall account for the actual time expended by Resident Project Representative in providing such work. If the Work is satisfactorily completed and the invoice is accurately computed District shall pay the invoice within thirty (30) days of its receipt. There shall be no compensation for extra or additional work or services by Resident Project Representative, unless approved in advance in writing by District.

3. **Term**. This Agreement shall continue in effect until completion of the Work to the satisfaction of District unless sooner terminated as provided below. *Select one*:

__X__ Resident Project Representative shall perform the Work diligently and as expeditiously as possible, consistent with the professional skill and care appropriate for the orderly progress of the Work.

____ Resident Project Representative shall complete the Work no later than _____, 20___. This deadline may be extended by District for good cause shown by Resident Project Representative.

A. Time is of the essence in this Agreement, however, Resident Project Representative has no control over District's or regulatory agency's review schedule or approval process.

B. This Agreement may be terminated for any or all portions of the Work by either party upon written notice to the other party in the event of a substantial failure of performance by such other party; or if District, by resolution of its Board of Directors, should deem it necessary or desirable to abandon or indefinitely postpone the prosecution of any part or all the Work.

C. In the event of such abandonment, postponement or default by District, District shall pay to Resident Project Representative as full payment for all services performed and all expenses incurred under this Agreement to the time of termination, in an amount which bears the same ratio to the total fee otherwise payable under this Agreement as the services actually rendered hereunder by Resident Project Representative bear to the total services necessary for the full performance of the Work. There shall be deducted from such amount, however, all payments heretofore made by District to Resident Project Representative under this Agreement. In ascertaining the services actually rendered hereunder up to the date of such termination of this Agreement, consideration shall be given to both completed services and services in the process of completion as detailed in the Resident Project Representative's scopes of work and addendums and work plans approved by regulatory agencies.

D. In the event of default in performance by Resident Project Representative, the provisions of Section 4 hereof shall apply.

4. **Default by Resident Project Representative**. If Resident Project Representative fails to expeditiously advance the Work, or performs work that does not comply with the requirements of this Agreement, or fails to perform any task or produce any documents required by this Agreement, or is guilty of any other material breach of the terms of this Agreement, District shall suspend payment until such time as the default is remedied by Resident Project Representative and if such default is not corrected within 30 days, notify Resident Project Representative in writing that District terminates Resident Project Representative's right to perform all or any portion of the Work. Resident Project Representative hereby agrees to pay District all damages sustained as a result of default by Resident Project Representative. If District terminates Resident Project Representative's right to perform the Work, District may have the work performed by others and charge the cost to Resident Project Representative. The cost of completion by District shall include reasonable reimbursement for additional executive and administrative expenses along with all damages for delay and other damages sustained by District as a result of Resident Project Representative's default. If the cost and expense of completing the Work, when added to the sum of amounts previously paid to Resident Project Representative under this Agreement and any amounts due but unpaid to Resident Project Representative at the time of such termination, exceed the contract price, District may deduct the amount of the excess from any such amounts then due Resident Project Representative. If the amount of such excess is larger than the amounts then due Resident Project Representative, Resident Project Representative shall immediately pay such excess or the balance thereof to District.

5. **Ownership of Documents**. Every document prepared by Resident Project Representative under this Agreement shall become the property of District. By this Agreement, Resident Project Representative transfers all of its right, title and interest in such documents to District, except that Resident Project Representative retains license to keep copies of documents that become publicly available during the scope of the project. Any documents retained by Resident Project Representative shall only be used to defend the Work during the term of this Agreement and no other purpose after the term of this Agreement. To the extent any document prepared under this Agreement constitutes a copyrightable work, the Work under this Agreement shall be considered a work for hire and by this Agreement Resident Project Representative shall be deemed to transfer all rights, title and interest in the copyrightable work to District, including the exclusive copyright excepted as noted above. Documents prepared by Resident Project Representative under this Agreement shall not be provided by Resident Project Representative to any other persons or entity without District's prior written approval.

6. **Compliance with Laws**. Resident Project Representative shall exercise due professional care to perform the Work in compliance with all applicable federal, state and local laws and regulations regarding safety of persons and property and their protection from damage, injury or loss, including applicable Cal-OSHA regulations. Resident Project Representative also shall possess and maintain all permits, licenses and certificates that may be required for it to perform the Work. Resident Project Representative shall comply with all laws and regulations as required by local, state and federal agencies regarding nondiscrimination including, but not limited to, Title VII of the Civil Right of 1964, the Americans with Disabilities Act, the Age Discrimination Employment Act

of 1967, and the California Fair Employment and Housing Act. The Resident Project Representative is aware of the District's anti-harassment policy and agrees to abide by the policy, practices and procedures set forth and established by the District. Resident Project Representative is only responsible for the safety of Resident Project Representative's employees, subcontractors, and other persons under its direction and control. Resident Project Representative is not responsible to ensure that persons other than its employees, subcontractors, or other persons not under its direction and control comply with all applicable federal, state and local laws and regulations.

7. **Indemnification**. Resident Project Representative shall indemnify, defend and hold harmless the District against liability for damages, liabilities or costs, including reasonable attorneys' fees and defense costs, to the extent such claims arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the Resident Project Representative. Resident Project Representative's obligations under this section shall be enforced to the fullest extent of the law, as provided or otherwise limited by Civil Code section 2782.8.

District shall indemnify and hold harmless the Resident Project Representative against damages, liabilities or costs, including reasonable attorneys' fees and defense costs, to the extent such arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the District.

8. **Insurance**. A. Types and Limits. Resident Project Representative at its sole cost and expense shall procure and maintain for the duration of this agreement the following types and limits of insurance:

Type	Limits	Scope
Commercial Public Liability and Property Damage	$1,000,000 per Occurrence	at least as broad as ISO CG 0001
Automobile Liability	$1,000,000 per Accident	at least as broad as ISO CA 0001, code 1 (any auto)
Workers' Compensation	Statutory Limits	
Employers' Liability	$1,000,000 per Accident	

B. Other Requirements. The public liability, property damage and automobile liability insurance furnished by Resident Project Representative shall name District as an additional insured and shall directly protect, as well as provide the defense for District, its officers, agents and employees as well as Resident Project Representative, and its agents, and employees, if any, from all suits, actions, damages, losses or claims to which they may be subjected by reason of, arising from, or resulting from Resident Project Representative's operations in the performance of the Work pursuant to this Agreement, and all insurance policies shall so state. Said insurance shall also specifically cover the contractual liability of Resident Project Representative. Said insurance shall also specify that it acts as primary insurance and District's insurance shall not contribute with Resident Project Representative's insurance. If Resident Project Representative fails to maintain such insurance, District may declare a default in the performance of this Agreement and exercise the remedies specified in Section 5 of this Agreement.

C. Resident Project Representative shall be permissibly self-insured or shall carry full workers' compensation coverage for all persons employed, either directly or through subcontractors, in carrying out the Work contemplated by this Agreement and in accordance with the Workers' Compensation Act contained in the Labor Code of the State of California. If Resident Project Representative fails to maintain such insurance, District may declare a default in the performance of this Agreement and exercise the remedies specified in Section 5 of this Agreement.

D. Resident Project Representative agrees to furnish a certificate or certificates substantiating the fact that it has taken out the insurance set forth above for the period covered by the Agreement and all endorsements substantiating coverage of District and its agents and employees as additional insured. All insurance is to be placed with insurers with a current A.M. Best rating A:VII or better unless otherwise accepted in writing by District.

Each such certificate shall bear an endorsement precluding the cancellation or reduction in coverage of any policy covered by such certificate before the expiration of thirty (30) days after District shall receive notification of such cancellation or reduction.

9. **Independent Contractor**. The parties hereto agree that at all times during the term of this Agreement Resident Project Representative, Resident Project Representative's employees and agents hired to perform services pursuant to this Agreement are independent contractors and are not agents or employees of District. Resident Project Representative shall have control over the means, methods, techniques, sequences, and procedures for performing and coordinating the Work required by this Agreement. District shall have the right to control Resident Project Representative only insofar as the result of Resident Project Representative's services rendered pursuant to this Agreement. If, in the performance of this Agreement, any third parties are employed or contracted by Resident Project Representative, such employees or subcontractors shall be entirely and exclusively under the direction, supervision and control of Resident Project Representative. All terms of employment, including hours, wages, working conditions, discipline, hiring and discharging or any other term of employment or contract shall be determined by Resident Project Representative, and District shall have no right or authority over such persons or the terms of their employment or contract.

Therefore, neither Resident Project Representative or any third persons employed by or contracted by Resident Project Representative to perform services pursuant to this Agreement shall be entitled to workers' compensation benefits from District should Resident Project Representative or any of its employees or contractors sustain an injury in the course of performing services specified in this Agreement. Furthermore, neither Resident Project Representative nor any third persons or contractors employed by Resident Project Representative shall be entitled to any other benefits payable to employees of District. Resident Project Representative hereby agrees to defend and hold District harmless from any and all claims that may be made against District based on any contention by any third party that an employer/employee relationship exists or that a contractual relationship exists between District and that third party by reason of this Agreement.

Resident Project Representative represents that it, and its employees and contractors, if applicable, are properly licensed and will remain so during the progress of the Work contemplated by this Agreement.

10. **Parties' Responsibilities.** District shall provide access to and/or obtain permission for Resident Project Representative to enter upon property, whether or not owned by District, as required to perform and complete the Work. Resident Project Representative will operate with reasonable care to minimize damage to the Work site. The cost of repairing such damage will be borne by Resident Project Representative.

Resident Project Representative shall be responsible to determine the existence and location of all subsurface structures, such as pipes, tanks, cables, and utilities within the Work site, and be responsible for any damage inadvertently caused by Resident Project Representative.

If Resident Project Representative discovers conditions or circumstances that it had not contemplated at the commencement of this Agreement, Resident Project Representative will notify Client in writing of these changed conditions. Depending upon the circumstances, District and Resident Project Representative may renegotiate in good faith the terms and conditions of this Agreement.

11. **Entire Agreement**. This writing and the documents incorporated herein by reference as Exhibit A, represent the sole, entire, exclusive and integrated contract between the parties concerning the Work, and supersedes all prior oral and/or written negotiations, representations or contracts. Each party to this Agreement acknowledges that no representations or promises have been made by any party hereto which are not embodied herein, and that no other agreement or promise not contained in this Agreement or in the incorporated documents shall be valid or binding. This Agreement may be amended only by a subsequent written contract approved and executed by both parties.

12. **Successors and Assignment**. This Agreement shall bind and inure to the benefit of the heirs, successors and assigns of the parties; however, Resident Project Representative shall not subcontract, assign or transfer this Agreement or any part of it without the prior written consent of District.

13. **No Waiver of Rights**. Any waiver at any time by either party of its rights as to a breach or default of this Agreement shall not be deemed to be a waiver as to any other breach or default. No payment by District to Resident Project Representative shall be considered or construed to be an approval or acceptance of any Work or a waiver of any breach or default.

14. **Severability**. If any part of this Agreement is held to be void, invalid or unenforceable, then the remaining parts will nevertheless continue in full force and effect.

15. **Governing Law**. This Agreement will be governed by and construed in accordance with the laws of the State of California.

16. **Notice**. Any notice, invoice or other communication that is required or permitted to be given under this Agreement shall be in writing and either served personally or sent by prepaid, first class U.S. mail addressed as follows:

17. **In witness whereof.** The effective date of this Agreement shall be the last date this Agreement is executed either by the Contractor or Owner.

District: Tuolumne Utilities District
18885 Nugget Blvd.
Sonora, California 95370
Attention: General Manager

Resident Project Representative: Mountaineering Engineering
1397 Greenhaven Drive
Oakdale, CA 95361
Attention: Michael Nessl, P.E.

Any party may change its address by notifying the other party of the change in the manner provided above.

18. **Attorneys Fees**. In the event of litigation between the parties, or if a party becomes involved in litigation because of wrongful acts of the other party, the prevailing or innocent party shall be entitled to an award of reasonable attorneys fees from the other party to the fullest extent of the law, and as may be limited by section 7 above.

RESIDENT PROJECT REPRESENTATIVE

_____ _____
Signature Date

_____
Printed Name/Title

TUOLUMNE UTILITIES DISTRICT

_____ _____
Edwin R. Pattison Date
General Manager

ATTEST:

_____ _____
Melissa McMullen Date
Executive Secretary/Board Clerk

Attachment B

USDA Exhibit D-Scope of the Resident Project Representative

RESIDENT PROJECT REPRESENTATIVE (RPR) – SERVICES

A. Owner shall furnish a Resident Project Representative ("RPR") to assist Engineer in observing progress and quality of the Work. The RPR may provide full time representation or may provide representation to a lesser degree. RPR is Engineer's representative at the Site, will act as directed by and under the supervision of Engineer, and will confer with Engineer regarding RPR's actions.

B. Through RPR's observations of the Work, including field checks of materials and installed equipment, Engineer shall endeavor to provide further protection for Owner against defects and deficiencies in the Work. However, RPR shall not supervise, direct, or have control over the Work, nor shall RPR have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected or used by any Constructor, for security or safety at the Site, for safety precautions and programs incident to the Work or any Constructor's work in progress, for the coordination of the Constructors' work or schedules, or for any failure of any Constructor to comply with Laws and Regulations applicable to the performing and furnishing of its work. The RPR neither guarantees the performance of any Constructor nor assumes responsibility for any Constructor's failure to furnish and perform the Work, or any portion of the Work, in accordance with the Construction Contract Documents

C. The duties and responsibilities of the RPR are as follows:

1. *General:* RPR's dealings in matters pertaining to the Work in general shall be with Engineer and Contractor. RPR's dealings with Subcontractors shall only be through or with the full knowledge and approval of Contractor. RPR shall generally communicate with Owner only with the knowledge of and under the direction of Engineer.

2. *Schedules:* Review the progress schedule, schedule of Shop Drawing and Sample submittals, schedule of values, and other schedules prepared by Contractor and consult with Engineer concerning acceptability of such schedules.

3. *Conferences and Meetings:* Attend meetings with Contractor, such as preconstruction conferences, progress meetings, job conferences, and other Project-related meetings (but not including Contractor's safety meetings), and as appropriate prepare and circulate copies of minutes thereof.

4. *Safety Compliance:* Comply with Site safety programs, as they apply to RPR, and if required to do so by such safety programs, receive safety training specifically related to RPR's own personal safety while at the Site.

5. *Liaison:*

   a. Serve as Engineer's liaison with Contractor. Working principally through Contractor's authorized representative or designee, assist in providing information regarding the provisions and intent of the Construction Contract Documents.

   b. Assist Engineer in serving as Owner's liaison with Contractor when Contractor's operations affect Owner's on-Site operations.

   c. Assist in obtaining from Owner additional details or information, when required for proper execution of the Work.

6. *Clarifications and Interpretations:* Receive from Contractor submittal of any matters in question concerning the requirements of the Construction Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Construction Contract Documents. Report to Engineer regarding such RFIs. Report to Engineer when clarifications and interpretations of the Construction Contract Documents are needed, whether as the result of a Contractor RFI or otherwise. Transmit Engineer's clarifications, interpretations, and decisions to Contractor. ,

7. *Shop Drawings and Samples:*

   a. Record date of receipt of Samples and Contractor-approved Shop Drawings.

   b. Receive Samples that are furnished at the Site by Contractor and notify Engineer of availability of Samples for examination.

   c. Advise Engineer and Contractor of the commencement of any portion of the Work requiring a Shop Drawing or Sample submittal, if RPR believes that the submittal has not been received from Contractor or has not been approved by Contractor or Engineer.

8. *Proposed* M*odifications:* Consider and evaluate Contractor's suggestions for modifications to the Drawings or Specifications, and report such suggestions, together with RPR's recommendations, if any, to Engineer. Transmit Engineer's response (if any) to such suggestions to Contractor.

9. *Review of Work; Defective Work:*

   a. Report to Engineer whenever RPR believes that any part of the Work is defective under the terms and standards set forth in the Construction Contract Documents, and provide recommendations as to whether such Work should be corrected, removed and replaced, or accepted as provided in the Construction Contract Documents.

   b. Inform Engineer of any Work that RPR believes is not defective under the terms and standards set forth in the Construction Contract Documents, but is nonetheless not compatible with the design concept of the completed Project as a functioning whole, and provide recommendations to Engineer for addressing such Work. ; and

c. Advise Engineer of that part of the Work that RPR believes should be uncovered for observation, or requires special testing, inspection, or approval.

10. Inspections, Tests, and System Start-ups:

a. Consult with Engineer in advance of scheduled inspections, tests, and systems start-ups.

b. Verify that tests, equipment, and systems start-ups and operating and maintenance training are conducted in the presence of appropriate Owner's personnel, and that Contractor maintains adequate records thereof.

c. Observe, record, and report to Engineer appropriate details relative to the test procedures and systems start-ups.

d. Observe whether Contractor has arranged for inspections required by Laws and Regulations, including but not limited to those to be performed by public or other agencies having jurisdiction over the Work.

e. Accompany visiting inspectors representing public or other agencies having jurisdiction over the Work, record the results of these inspections, and report to Engineer.

11. *Records*:

a. Maintain at the Site orderly files for correspondence, reports of job conferences, copies of Construction Contract Documents including all Change Orders, Field Orders, Work Change Directives, Addenda, additional Drawings issued subsequent to the execution of the Construction Contract, RFIs, Engineer's clarifications and interpretations of the Construction Contract Documents, progress reports, approved Shop Drawing and Sample submittals, and other Project-related documents.

b. Prepare a daily report or keep a diary or log book, recording Contractor's hours on the Site, Subcontractors present at the Site, weather conditions, data relative to questions of Change Orders, Field Orders, Work Change Directives, or changed conditions, Site visitors, deliveries of equipment or materials, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures; and send copies to Engineer.

c. Upon request from Owner to Engineer, photograph or video Work in progress or Site conditions.

d. Record and maintain accurate, up-to-date lists of the names, addresses, fax numbers, e-mail addresses, websites, and telephone numbers (including mobile numbers) of all Contractors, Subcontractors, and major Suppliers of materials and equipment.

e. Maintain records for use in preparing Project documentation.

f. Upon completion of the Work, furnish original set of all RPR Project documentation to Engineer.

12. *Reports:*

    a. Furnish to Engineer periodic reports as required of progress of the Work and of Contractor's compliance with the progress schedule and schedule of Shop Drawing and Sample submittals.

    b. Draft and recommend to Engineer proposed Change Orders, Work Change Directives, and Field Orders. Obtain backup material from Contractor.

    c. Furnish to Engineer and Owner copies of all inspection, test, and system start-up reports.

    d. Immediately inform Engineer of the occurrence of any Site accidents, emergencies, acts of God endangering the Work, possible force majeure or delay events, damage to property by fire or other causes, or the discovery of any potential differing site condition or Constituent of Concern.

13. *Payment Requests:* Review applications for payment with Contractor for compliance with the established procedure for their submission and forward with recommendations to Engineer, noting particularly the relationship of the payment requested to the schedule of values, Work completed, and materials and equipment delivered at the Site but not incorporated in the Work.

14. *Certificates, Operation and Maintenance Manuals:* During the course of the Work, verify that materials and equipment certificates, operation and maintenance manuals and other data required by the Contract Documents to be assembled and furnished by Contractor are applicable to the items actually installed and in accordance with the Contract Documents, and have these documents delivered to Engineer for review and forwarding to Owner prior to payment for that part of the Work.

15. *American Iron and Steel Requirements:* The RPR is to assist the Engineer in implementing the Engineer's Responsibilities for project compliance with the USDA RUS American Iron and Steel Requirements. The RPR typically is responsible for field identification and photo documenting domestic iron and steel products used in the project. The RPR may also be requested to maintain a log of manufacturer's certifications.

16. *Completion*:

    a. Participate in Engineer's visits to the Site regarding Substantial Completion, assist in the determination of Substantial Completion, and prior to the issuance of a Certificate of Substantial Completion submit a punch list of observed items requiring completion or correction.

    b. Participate in Engineer's visit to the Site in the company of Owner and Contractor, to determine completion of the Work, and prepare a final punch list of items to be completed or corrected by Contractor.

    c. Observe whether all items on the final punch list have been completed or corrected and make recommendations to Engineer concerning acceptance and issuance of the Notice of Acceptability of the Work.

D. Resident Project Representative shall not:

1. Authorize any deviation from the Construction Contract Documents or substitution of materials or equipment (including "or-equal" items).

2. Exceed limitations of Engineer's authority as set forth in this Agreement.

3. Undertake any of the responsibilities of Contractor, Subcontractors, or Suppliers, or any Constructor.

4. Advise on, issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences or procedures of the Work, by Contractor or any other Constructor.

5. Advise on, issue directions regarding, or assume control over security or safety practices, precautions, and programs in connection with the activities or operations of Owner or Contractor.

6. Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by Engineer.

7. Accept Shop Drawing or Sample submittals from anyone other than Contractor.

8. Authorize Owner to occupy the Project in whole or in part.

Attachment C
Resident Project Representative Proposals

Mountaineering Engineering Proposal

MOUNTAINEERING ENGINEERING
1397 Greenhaven Dr.
Oakdale, CA 95361
714-501-9071

PROFESSIONAL SERVICES PROPOSAL

Date: February 1, 2021
Revised from January 8, 2021

To: Tuolumne Utilities District
Attn: Jennifer Batt

From: Michael Nessl, P.E.

Re: Sonora WWTP Replacement – Proposal for Resident Project Representative

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Dear Mrs. Batt:

Pursuant to the December 2, 2020 Tuolumne Utilities District (TUD) Request for Proposal (RFP), please accept for your review and consideration, the attached Mountaineering Engineering Professional Services Proposal.

It is our understanding that the TUD is planning to replace the existing wastewater treatment plant that serves the City of Sonora and surrounding areas with a new treatment facility, and has recently completed the engineering plans and specifications for the proposed upgrade. In accordance with the RFP, the TUD also plans to use PACE (Engineer of Record (EOR)) to provide construction management services during the construction phase of the new treatment facility. Additionally, the TUD is looking to retain a third party Resident Project Representative (RPR) to provide services consistent with USDA's Exhibit D – Duties, Responsibilities, and Limitations of Authority of Resident Project Representative which is attached to this proposal as Attachment 1.

Therefore, in accordance with the RPR RFP for the construction of the new Wastewater Treatment Facility, Mountaineering Engineering is pleased to provide this proposal for your consideration.

Sincerely,

Mike Nessl

Michael Nessl, PE
Mountaineering Engineering

SCOPE OF SERVICES

Services to be provided by the RPR are detailed in USDA's Exhibit D – Duties, Responsibilities, and Limitations of Authority of Resident Project Representative. See attachment 1.

COMPENSATION

Resident Project Representative Billing Rate	***$125/hour***
Construction Duration as defined in the Contract Documents	*640 days*
Anticipated Hours	*3,640 hrs*
Estimated Budget	***$ 455,000***

ASSUMPTIONS AND EXCLUSIONS

TUD responsibilities shall include providing Mountaineering Engineering with all plans, specifications, existing utility maps and access to the WWTP facility as necessary to carry out the duties of the RPR.

The specific items listed below are contract exclusions:

1. Prepare or revise contract Plans and Specifications
2. Prepare and submit Permit Applications and Permit Fees
3. Prepare Record Drawings
4. Prepare Operations and Maintenance Manuals
5. SWPPP QSD and/or QSP services
6. Prepare and submit NOI or NOT for construction general permit
7. Managing and uploading documents into SMARTS
8. Hazardous materials inspection – lead, asbestos, PCBs
9. Special inspections/testing – welding, coating, concrete, electrical

ATTACHMENTS

1. Exhibit D – Duties, Responsibilities, and Limitations of Authority of Resident Project Representative
2. Michael Nessl Resume including Relevant Project Experience
3. Addendum 1 & 2 Acknowledgement

Exhibit D – Services of the Resident Project Representative

RESIDENT PROJECT REPRESENTATIVE (RPR) – SERVICES

A. Owner shall furnish a Resident Project Representative ("RPR") to assist Engineer in observing progress and quality of the Work. The RPR may provide full time representation or may provide representation to a lesser degree. RPR is Engineer's representative at the Site, will act as directed by and under the supervision of Engineer, and will confer with Engineer regarding RPR's actions.

B. Through RPR's observations of the Work, including field checks of materials and installed equipment, Engineer shall endeavor to provide further protection for Owner against defects and deficiencies in the Work. However, RPR shall not supervise, direct, or have control over the Work, nor shall RPR have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected or used by any Constructor, for security or safety at the Site, for safety precautions and programs incident to the Work or any Constructor's work in progress, for the coordination of the Constructors' work or schedules, or for any failure of any Constructor to comply with Laws and Regulations applicable to the performing and furnishing of its work. The RPR neither guarantees the performance of any Constructor nor assumes responsibility for any Constructor's failure to furnish and perform the Work, or any portion of the Work, in accordance with the Construction Contract Documents

C. The duties and responsibilities of the RPR are as follows:

1. *General:* RPR's dealings in matters pertaining to the Work in general shall be with Engineer and Contractor. RPR's dealings with Subcontractors shall only be through or with the full knowledge and approval of Contractor. RPR shall generally communicate with Owner only with the knowledge of and under the direction of Engineer.

2. *Schedules:* Review the progress schedule, schedule of Shop Drawing and Sample submittals, schedule of values, and other schedules prepared by Contractor and consult with Engineer concerning acceptability of such schedules.

3. *Conferences and Meetings:* Attend meetings with Contractor, such as preconstruction conferences, progress meetings, job conferences, and other Project-related meetings (but not including Contractor's safety meetings), and as appropriate prepare and circulate copies of minutes thereof.

4. *Safety Compliance:* Comply with Site safety programs, as they apply to RPR, and if required to do so by such safety programs, receive safety training specifically related to RPR's own personal safety while at the Site.

5. *Liaison:*

   a. Serve as Engineer's liaison with Contractor. Working principally through Contractor's authorized representative or designee, assist in providing information regarding the provisions and intent of the Construction Contract Documents.

   b. Assist Engineer in serving as Owner's liaison with Contractor when Contractor's operations affect Owner's on-Site operations.

   c. Assist in obtaining from Owner additional details or information, when required for proper execution of the Work.

6. *Clarifications and Interpretations:* Receive from Contractor submittal of any matters in question concerning the requirements of the Construction Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Construction Contract Documents. Report to Engineer regarding such RFIs. Report to Engineer when clarifications and interpretations of the Construction Contract Documents are needed, whether as the result of a Contractor RFI or otherwise. Transmit Engineer's clarifications, interpretations, and decisions to Contractor. ,

7. *Shop Drawings and Samples:*

   a. Record date of receipt of Samples and Contractor-approved Shop Drawings.

   b. Receive Samples that are furnished at the Site by Contractor and notify Engineer of availability of Samples for examination.

   c. Advise Engineer and Contractor of the commencement of any portion of the Work requiring a Shop Drawing or Sample submittal, if RPR believes that the submittal has not been received from Contractor or has not been approved by Contractor or Engineer.

8. *Proposed* M*odifications:* Consider and evaluate Contractor's suggestions for modifications to the Drawings or Specifications, and report such suggestions, together with RPR's recommendations, if any, to Engineer. Transmit Engineer's response (if any) to such suggestions to Contractor.

9. *Review of Work; Defective Work:*

   a. Report to Engineer whenever RPR believes that any part of the Work is defective under the terms and standards set forth in the Construction Contract Documents, and provide recommendations as to whether such Work should be corrected, removed and replaced, or accepted as provided in the Construction Contract Documents.

   b. Inform Engineer of any Work that RPR believes is not defective under the terms and standards set forth in the Construction Contract Documents, but is nonetheless not compatible with the design concept of the completed Project as a functioning whole, and provide recommendations to Engineer for addressing such Work. ; and

c. Advise Engineer of that part of the Work that RPR believes should be uncovered for observation, or requires special testing, inspection, or approval.

10. Inspections, Tests, and System Start-ups:

a. Consult with Engineer in advance of scheduled inspections, tests, and systems start-ups.

b. Verify that tests, equipment, and systems start-ups and operating and maintenance training are conducted in the presence of appropriate Owner's personnel, and that Contractor maintains adequate records thereof.

c. Observe, record, and report to Engineer appropriate details relative to the test procedures and systems start-ups.

d. Observe whether Contractor has arranged for inspections required by Laws and Regulations, including but not limited to those to be performed by public or other agencies having jurisdiction over the Work.

e. Accompany visiting inspectors representing public or other agencies having jurisdiction over the Work, record the results of these inspections, and report to Engineer.

11. *Records*:

a. Maintain at the Site orderly files for correspondence, reports of job conferences, copies of Construction Contract Documents including all Change Orders, Field Orders, Work Change Directives, Addenda, additional Drawings issued subsequent to the execution of the Construction Contract, RFIs, Engineer's clarifications and interpretations of the Construction Contract Documents, progress reports, approved Shop Drawing and Sample submittals, and other Project-related documents.

b. Prepare a daily report or keep a diary or log book, recording Contractor's hours on the Site, Subcontractors present at the Site, weather conditions, data relative to questions of Change Orders, Field Orders, Work Change Directives, or changed conditions, Site visitors, deliveries of equipment or materials, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures; and send copies to Engineer.

c. Upon request from Owner to Engineer, photograph or video Work in progress or Site conditions.

d. Record and maintain accurate, up-to-date lists of the names, addresses, fax numbers, e-mail addresses, websites, and telephone numbers (including mobile numbers) of all Contractors, Subcontractors, and major Suppliers of materials and equipment.

e. Maintain records for use in preparing Project documentation.

f. Upon completion of the Work, furnish original set of all RPR Project documentation to Engineer.

12. *Reports:*

    a. Furnish to Engineer periodic reports as required of progress of the Work and of Contractor's compliance with the progress schedule and schedule of Shop Drawing and Sample submittals.

    b. Draft and recommend to Engineer proposed Change Orders, Work Change Directives, and Field Orders. Obtain backup material from Contractor.

    c. Furnish to Engineer and Owner copies of all inspection, test, and system start-up reports.

    d. Immediately inform Engineer of the occurrence of any Site accidents, emergencies, acts of God endangering the Work, possible force majeure or delay events, damage to property by fire or other causes, or the discovery of any potential differing site condition or Constituent of Concern.

13. *Payment Requests:* Review applications for payment with Contractor for compliance with the established procedure for their submission and forward with recommendations to Engineer, noting particularly the relationship of the payment requested to the schedule of values, Work completed, and materials and equipment delivered at the Site but not incorporated in the Work.

14. *Certificates, Operation and Maintenance Manuals:* During the course of the Work, verify that materials and equipment certificates, operation and maintenance manuals and other data required by the Contract Documents to be assembled and furnished by Contractor are applicable to the items actually installed and in accordance with the Contract Documents, and have these documents delivered to Engineer for review and forwarding to Owner prior to payment for that part of the Work.

15. *American Iron and Steel Requirements:* The RPR is to assist the Engineer in implementing the Engineer's Responsibilities for project compliance with the USDA RUS American Iron and Steel Requirements. The RPR typically is responsible for field identification and photo documenting domestic iron and steel products used in the project. The RPR may also be requested to maintain a log of manufacturer's certifications.

16. *Completion*:

    a. Participate in Engineer's visits to the Site regarding Substantial Completion, assist in the determination of Substantial Completion, and prior to the issuance of a Certificate of Substantial Completion submit a punch list of observed items requiring completion or correction.

    b. Participate in Engineer's visit to the Site in the company of Owner and Contractor, to determine completion of the Work, and prepare a final punch list of items to be completed or corrected by Contractor.

    c. Observe whether all items on the final punch list have been completed or corrected and make recommendations to Engineer concerning acceptance and issuance of the Notice of Acceptability of the Work.

D. Resident Project Representative shall not:

1. Authorize any deviation from the Construction Contract Documents or substitution of materials or equipment (including "or-equal" items).

2. Exceed limitations of Engineer's authority as set forth in this Agreement.

3. Undertake any of the responsibilities of Contractor, Subcontractors, or Suppliers, or any Constructor.

4. Advise on, issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences or procedures of the Work, by Contractor or any other Constructor.

5. Advise on, issue directions regarding, or assume control over security or safety practices, precautions, and programs in connection with the activities or operations of Owner or Contractor.

6. Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by Engineer.

7. Accept Shop Drawing or Sample submittals from anyone other than Contractor.

8. Authorize Owner to occupy the Project in whole or in part.

Michael Nessl, PE

Phone: 714-501-9071 | mnessl1@gmail.com

STATEMENT OF QUALIFICATIONS

SUMMARY:

Mr. Nessl is a highly skilled civil engineer with over 14 years of professional engineering experience. From 2006 to 2012 Mr. Nessl worked as a design engineer and later a project engineer for Pacific Advanced Civil Engineering (PACE) specializing in water and wastewater treatment planning, design, construction and operation.

Mr. Nessl was part of the engineering team that developed four full scale wastewater treatment projects, and was the lead design engineer for two advanced water treatment systems. Mr. Nessl also designed, managed the construction, and operated three water treatment pilot systems for testing challenging waters using advanced water treatment technologies. During his employment at PACE Mr. Nessl worked with the Barona Band of Mission Indians in San Diego, CA. During this time, Mr. Nessl operated the water filtration systems, monitoring the water wells and distribution system, and provided compliance monitoring and reporting to the EPA.

For the past 9 years Mr. Nessl has been employed by San Francisco Public Utilities Commission (Hetch Hetchy). During this tenure, Mr. Nessl has been involved in all phases of Construction Management including lead Quality Assurance (QA) Inspector, Office Engineer and onsite Resident Engineer managing construction projects. These projects have included large diameter pipeline and valve replacements, reservoir outlet valve replacements, building construction, battery replacement, powerhouse upgrades, high voltage transmission tower replacement and high voltage substation rehabilitation. Construction Management duties have included, but are not limited to providing construction document management, conduct project meetings, daily QA inspection, change order negotiation, schedule management, safe clearance LOTO, coordination and witnessing of equipment and system startup and testing, and project closeout.

Mr. Nessl established Mountaineering Engineering in 2010 with the design of a small decentralized wastewater treatment system for the Leland Meadow community in Tuolumne County. Mountaineering Engineering managed the design and construction of an all-inclusive decentralized Water Reclamation Facility for the Chicken Ranch Rancheria. This work included a sewer collection system, wastewater treatment facility, reclaimed water storage and pump station, and drip irrigation zones for tree plantations. Other Mountaineering Engineering projects include design and installation of a SCADA system for the Leland Meadow Water District, and providing engineering services for the Sierra Park Water Company by managing their water system capital improvement projects.

Some of Mr. Nessl's relevant skills include the following:□

- Ability to interact well with the clients, project team members and contractors;
- Excellent written and verbal communication skills in English and some verbal Spanish;
- Efficient use of relevant office and engineering computer software including Oracle Construction Management Software, SharePoint, Word, Excel, PowerPoint, Adobe Acrobat, and AutoCAD;
- Very organized and extremely proficient at proper document management;
- Excellent conflict resolution and problem solving skills

EDUCATION: Bachelor of Science in Civil Engineering (2006)□□□□□□□□□□□□□□□□□□□□□□
California State University of Long Beach

LICENSES/CERTIFICATES/TRAININGS:

- Professional Engineer in Civil Engineering #76707
- First Aid and CPR Certified
- Confined Space Training
- OSHA 30 Hour Training
- NFPA 70E High Voltage Electrical Training

RELEVANT CONSTRUCTION EXPERIENCE

San Francisco Public Utilities Commission – Construction Management Bureau

Warnerville Substation Rehabilitation: Owner: SFPUC/Hetch Hetch Water and Power

Contract Value: $22M
Construction Duration: 18 months
Project Reference: A. Mark Waldman (Civil EOR – PECI) amwaldman@sbcglobal.net 415-516-8545
Project Description: Complete renovation and upgrade of a high voltage substation including replacement of (3) existing autotransformers with (2) new 300MVA 230KV/115KV autotransformers; replacement of 230KV and 115KV oil circuit breakers with new 230KV and 115KV SF6 circuit breakers; replacement of 230KV and 115KV high voltage disconnect switches; replacement of high voltage metering equipment, and installation of a new control building with all new protection relays and control devices.

- The facility remained energized during the renovation and all critical work was performed during system outages so crews work 6-7 days/week for 12-16 hours/day.

Roles and Responsibility: Assistant Resident Engineer, Office Engineer, Lead QA Inspector

- Managed construction documentation including submittal and shop drawing review, respond to RFIs, create and issue Non-Conformance Notices, create Proposed Change Orders and negotiate costs with the contractor, CPM schedule review and analysis, prepare letters to the contractor, and enforced the requirements of the contract documents.
- QA inspection for concrete placement and testing; compaction testing; structural steel erection; installation and assembly of autotransformers, SF6 circuit breakers, HV switches, and HV metering equipment; aluminum buss welding; installation of conduit and wire; SWPPP review and BMP inspection monitoring; lead and asbestos abatement and demolition of existing equipment.
- Onsite witness testing for commissioning of autotransformers, SF6 breakers, CTs, HV switches, and HV metering equipment; component testing of protection relay elements and relay logic; facility energization and turn over to operations.
- Coordination of system outages, LOTO, and clearance holder responsibilities.
- Project closeout including review and approval of Operations and Maintenance Manuals, Record Drawings, and coordinate operator training.

Chicken Ranch Casino WRF Upgrade: Owner: Mi Wuk Band of Mission Indians

Contract Value: $2.5M
Construction Duration: 8 months
Project Contact: Nathan Thomas (Project Inspector) westshoreus@gmail.com 707-832-6310
Project Description: Construction of a new 20,000 gpd Water Reclamation Facility including installation of 800' of 8" diameter sewer main, installation of a prefabricated Sequencing Batch Reactor (SBR), tertiary filter system, onsite storage tanks, water quality instruments, and onsite water reuse pumping and drip irrigation disposal system.
Roles and Responsibility: Design Engineer, Project Engineer, Engineering services during construction.

- Prepared design drawings and specifications.
- Prepared bid documents and assisted the client with bid advertisement and contractor selection.
- Managed construction documentation
- Onsite QA inspection for concrete placement and testing; prefabricated tank installation; piping and valve installation; steel tank erection; control building construction; filter and instrumentation installation; site security installation; electrical panel, conduit and wire installation; backup generator installation; and drip irrigation piping installation.
- Onsite witness testing for commissioning of the SBR pumps, valves, level instruments and sequence of operation; tertiary filter system; water quality instruments; and coordinated the commissioning of the reuse components: pumps, filters, control valves and sequence of operation.
- Project closeout including creation of Operations and Maintenance Manuals and Standard Operating Procedures, Prepare Record Drawings, and coordinate operator training.

Cherry Dam Outlet Works Rehabilitation: Owner: SFPUC/Hetch Hetch Water and Power

Contract Value: $7.5M
Construction Duration: 10 months
Project Contact: Gary Silveira (Contractor – Anvil Builders) gsilveira@anvilbuilders.com 415-743-0281
Project Description: Complete renovation and upgrade of the Low Level Outlet (LLO) facility at Cherry Lake Dam including replacement of (2) existing 66" diameter hollow jet valves with (2) new 66" fixed cone valves (FCVs), replacement of the instream flow release system piping and jet flow gates, upgrade of the facilities entire electrical system, and installation of a new PLC control panel. During the project one of the 84" diameter guard valves failed so the lake had to be drained and the guard valves repaired. This doubled the original scope of the project by adding a bypass pump system to pump around the dam, commercial divers and specialized onsite repair of the 84" diameter guard valves.

- *Mr. Nessl and Anvil Builders were awarded the San Francisco's Partnered Project of the Year Award*

Roles and Responsibility: Resident Engineer, Office Engineer, Lead QA Inspector

- Primary role was Project Construction Manager responsible for enforcing and completing the construction contract.
- Construction document management
- QA inspection for concrete placement and testing; steel piping and valve installation; installation of the new FCVs; installation of electrical panels, conduit and wire; commercial diver work activities; large diameter valve repair; and monitoring the bypass pumping system.
- Onsite witness testing for new valves and piping systems; flow testing of the new FCVs; station transformer and electrical system; and PLC control automation.
- Factory Acceptance Testing for the new instream flow release jet flow gates, and Supplier Quality Surveillance of shop welding and NDE and shop coating and DFT testing for the new welded steel piping.
- Coordination of system outages, LOTO, and clearance holder responsibilities.
- Project closeout including review and approval of Operations and Maintenance Manuals, Record Drawings, and coordinate operator training.

Moccasin Control and Server Building: Owner: SFPUC/Hetch Hetch Water and Power

Contract Value: $7.5M
Construction Duration: 12 months
Project Contact: James Coyle (Contractor – Big Valley Electric) jacoyle@bigvalleyelectric.com 209-986-6390
Project Description: Construction of a new control and server building for the Hetch Hetchy Regional Water System and power generation and transmission systems. Building included a regional server room, high tech control room, HVAC equipment, and backup generator.
Roles and Responsibility: Office Engineer, Startup and Testing Coordinator

- Construction document management
- Onsite witness testing of the new building equipment including the HVAC units, cooling tower, backup generator, electrical switch gear, video wall equipment, server room equipment and UPS system.
- Project closeout including review and approval of Operations and Maintenance Manuals, Record Drawings, and coordinate operator training.

SJPL1 Replacement at SJVH: Owner SFPUC/Hetch Hetch Water and Power
Contract Value: $1.7M
Construction Duration: 13 months
Project Contact:
Project Description: Replacement of 165' of 58" diameter welded steel pipe, and installation of Cathodic Protection system.
Roles and Responsibility: Resident Engineer, Office Engineer, Lead QA Inspector

- Primary role was Project Construction Manager responsible for enforcing and completing the construction contract.
- Construction Document management

- QA inspection for large diameter pipe fit up and placement; shoring system installation and dewatering system; onsite welding, NDE, pipe coating and NACE inspection for the welded steel pipe; and demolition of the old pipe.
- Onsite witness testing for hydrostatic testing.
- Supplier Quality Surveillance of shop welding and NDE and shop coating and DFT testing for the new welded steel piping.
- Coordination of system outages, LOTO, and clearance holder responsibilities.
- Project closeout

O'Shaughnessy Dam Drum Gate Automation: Owner: SFPUC/Hetch Hetch Water and Power

Contract Value: $700K
Construction Duration: 6 months
Project Contact: Clayton Guy (Contractor – Big Valley Electric) claytong17@yahoo.com 209-768-7243
Project Description: Replacement of O'Shaughnessy Dam drum gate control valves and installation of PLC control panel for automatic control of the new drum gate valves.
Roles and Responsibility: Office Engineer, Lead QA Inspector

- Construction document management
- QA inspection for valve replacement and conduit and wire installation
- Onsite witness testing of the new valves and PLC control automation.
- Coordination of system outages, LOTO, and clearance holder responsibilities.
- Project closeout including review and approval of Operations and Maintenance Manuals, Record Drawings, and coordinate operator training.

PROFESSIONAL REFERENCES:

- Mr. Marvin Palmer – Leland Meadow Water District
  209-951-0573

- Mr. Frank Sylvester – Electrical Engineer, former colleague
  925-451-4722 frank.sylvester@libertyutilities.com

- Mr. Keisuke Ikehata – Engineering Professor at Texas State University, former colleague
  714-270-0824 kikehata@txstate.edu

12/04/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.1

PROJECT: Resident Project Representative Services for the Sonora Wastewater Treatment Facility

TO: All Planholders

FROM: Tuolumne Utilities District

PROPOSAL DATE: Unchanged

Notice is hereby given to prospective proposers that the Proposal Documents for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility have been modified as hereinafter set forth. This Addendum No.1 shall form a part of the Proposal Documents and takes precedence over the original Proposal Documents.

The following revisions, additions, replacements, clarifications, or deletions shall be made to the Contract Documents:

REPLACEMENT: Exhibits C & D
The attached Exhibits C & D dated 12/04/2020 shall replace Exhibits C & D of the original proposal documents.

CLARIFICATION: Exhibit C, Federal Requirements
Compliance with all Federal Requirements listed in Exhibit C must be adhered to in order to be considered an eligible proposer.

Proposers shall acknowledge receipt of Addendum No.1 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer

I acknowledge receipt of Addendum No.1.

Signed Mike Kessl
Proposer

12/30/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.2

PROJECT: Resident Project Representative Services for the Sonora Wastewater Treatment Facility
TO: All Planholders
FROM: Tuolumne Utilities District
PROPOSAL DATE: Unchanged

Notice is hereby given to prospective proposers that the Proposal Documents for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility have been modified as hereinafter set forth. This Addendum No.2 shall form a part of the Proposal Documents and takes precedence over the original Proposal Documents.

The following revisions, additions, replacements, clarifications, or deletions shall be made to the Contract Documents:

CLARIFICATION: Project Scope

The Resident Project Representative (RPR) shall act as an Inspector for the District and a liaison between the Engineer and the Contractor. The District will be providing a Construction Manager for the project that will be responsible for record keeping, processing pay requests, communications, etc. The RPR *is not* a Construction Manager nor shall he/she be responsible for tasks typically conducted by a Construction Manager. Any required special inspections will be coordinated by the project Engineer and are not the responsibility of the RPR. The RPR shall be present at all special inspections.

It is the District's intention to hire a firm which uses the same person for the Inspector throughout the duration of the project. The Inspector may utilize office support staff for some documentation; however, all daily logs shall be record by himself/herself. Please read Exhibit D-Services of the Resident Project Representative in the Request for Proposal very carefully.

Attached to this addendum is a plan view of the overall project site, the hydraulic profile of the project and a process flow diagram to help proposers better understand the breadth of the project.

Proposers shall acknowledge receipt of Addendum No.2 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer
Tuolumne Utilities District

I acknowledge receipt of Addendum No.2.

Signed Mike Kessl
Proposer Signature

CORE Inspection Services Proposal

CORE
INSPECTION
SERVICES

1/8/2021

To whom it may concern

With many years of experience as a Certified home inspector and over 15 years of experience in the building industry I feel that we at Core Inspection Services inc. can continue to be a great asset to TUD as a Resident Project Representative. Core inspection services carry 1 million dollars in liability insurance and E&O insurance.

I had the amazing opportunity to train under Les Dean in 2019-2020 and understand well the process of inspecting projects in a manner that will be helpful to understand our daily logs and communicate well with the contractor. We understand that these types of projects require constant communication with the contractor and TUD.

The inspector on site for The Sonora Waste Water Project will be my employee Joey Rivera. He has over 30 years of experience in the construction industry and owns the concrete company Rivera Construction. As of recent he has acted as a supervisor for Phillips & Jordan supervising and inspecting multi- million dollar projects for them in both California and Ohio. However with many years working in concrete is very versed in the Construction project. Some of the local projects we were part of include; The Old Wards Ferry realignment in front of lowes, Tractor Supply, Water Storage tanks for Tridam, Thrust block repair at the base of hetch hetchy, Building the VA building and many others.

Both Joey Rivera and myself are fully versed in reading and understanding plans, marking As-builds, and significant general construction knowledge. We would plan on using a software that can be easily viewed by the engineer with daily logs and pictures. We anticipate that our partnership can continue in the smooth manner that it has in the past and look forward to the opportunity to bid this job.

- Core Inspection Services 7 years in the inspection industry Joey Rivera 35+ years of Construction Experience
- **Sample Project name and construction duration:** Eagle Ridge Sewer and water line installation July 2019- Feb 2020
- **Project value** * Unknown
- **Project Owner:** *Unknown
- **Project Reference**
  - **Les Dean**
  - **ldean@tudwater.com**
  - **(209)743-9445**

- **Sample Project name and construction duration:**Old Wards Ferry Realignment (2009-2010)
- **Project value:** 8 million
- **Project Owner:** California Gold
- **Project Reference**
  - **Mark Patterson**
  - **mpatterson@mlode.com**
  - **(209)743-5327**

- **Sample Project name and construction duration:** Sonora High School Pool house and site-work
- **Project value:** Unknown
- **Project Owner:** Boyer Construction
- **Project Reference**
  - **Robert Boyer**
  - **(209) 586-5010**

Jason Rivera
Core Inspection Services inc.
jason@coreinspectionservices.com
Nachi#14120901

Core Inspection Services
18859 Microtronics Way, Suite B1
Sonora, CA 95370 US
coreinspect1@gmail.com
coreinspectionservices.com

Estimate

ADDRESS
TUD
Tuolumne Utilities District
18885 Nugget Blvd
Sonora, CA 95370
United States

ESTIMATE # 1002
DATE 01/06/2021
EXPIRATION DATE 01/11/2021

SERVICE	DESCRIPTION	QTY	RATE	AMOUNT
Residential Project Representative	Sonora Waste Water Project: *For Work Preformed on site RPR billed bi weekly @ $120 an hour for an estimated time period of 18 months; 78 weeks	3,120	120.00	374,400.00
Residential Project Representative	Sonora Waste Water Project: *For Work Preformed preparing for the job to start RPR billed bi weekly @ $120 an hour for an estimated time period of 120 hours	120	120.00	14,400.00
Office Administration	Misc office Assistance Estimated time of 6 hours a week for 78 weeks	468	40.00	18,720.00

This is an estimate only all hours will be billed bi weekly and will only be billed for hours worked. This estimate is based on the knowledge of the Sonora Waste water Project lasting 18 months.

The prices are based on working 8 hours a day or 40 ours a week whichever comes first. Overtime was not figured in this estimate, all overtime hours for the RPR will be billed at $180 per hour.

TOTAL **$407,520.00**

Accepted By

Accepted Date

12/04/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

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FROM: Tuolumne Utilities District

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Jennifer L. Batt, P.E.
Associate Engineer

I acknowledge receipt of Addendum No.1.

Signed Jason Rivera
Proposer

12/30/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.2

PROJECT:	Resident Project Representative Services for the Sonora Wastewater Treatment Facility
TO:	All Planholders
FROM:	Tuolumne Utilities District
PROPOSAL DATE:	Unchanged

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It is the District's intention to hire a firm which uses the same person for the Inspector throughout the duration of the project. The Inspector may utilize office support staff for some documentation; however, all daily logs shall be record by himself/herself. Please read Exhibit D-Services of the Resident Project Representative in the Request for Proposal very carefully.

Attached to this addendum is a plan view of the overall project site, the hydraulic profile of the project and a process flow diagram to help proposers better understand the breadth of the project.

Proposers shall acknowledge receipt of Addendum No.2 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer
Tuolumne Utilities District

I acknowledge receipt of Addendum No.2.

Signed Jason Rivera
Proposer Signature

SRD Proposal

DIVERSIFIED, LLC

5170 Golden Foothill Parkway, Suite 110
El Dorado Hills, CA 95672
www.srdiversified.com
916.235.8245

TECHNICAL SERVICES ❖ PROCUREMENT ❖ INSPECTION ❖ PROJECT MANAGEMENT ❖ CONSTRUCTION SERVICES

January 8, 2021

Ms. Jennifer L. Batt
Associate Engineer
Tuolumne Utilities District
18885 Nugget Blvd.
Sonora, CA 95370
jbatt@tudwater.com

transmitted via email

Subject: Proposal for Resident Project Representative Services

Dear Ms. Batt,

SR Diversified, LLC is pleased to provide the following proposal for Resident Project Representative services for the Sonora Wastewater Treatment Facility Upgrades Project. We are a certified women-business-enterprise that is recognized by the California Public Utilities Commission and provide construction and technical/consulting services while supporting clients in meeting regulatory requirements for diversity contracting and spending goals for state and local agencies, and CPUC regulated utilities. Our staff are very experienced in providing construction support services of inspection and project management.

As you review this proposal, please know that you can contact us for any questions or clarifications. I can be reached via email at CindyM@SRDiversified.com or by mobile (530) 306-2823. We appreciate the opportunity to provide this proposal to the District and look forward to speaking with you.

Sincerely,
SR Diversified, LLC

Cindy Megerdigian, P.E.
President

Proposal for Resident Project Representative Services

for the

Sonora Wastewater Treatment Plant Upgrade Project

TUOLUMNE UTILITIES DISTRICT

January 8, 2021

5170 Golden Foothill Parkway, Suite 110
El Dorado Hills, CA 95762
916.235.8245

CA Class A Lic. No. 999572
AZ Class A Lic. No. 327598

CPUC-Verified WBE
VON ID 14060042

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Section Page

1 Introduction

SR Diversified, LLC (SRD) is pleased to provide this proposal in response to the Tuolumne Utilities District (District) Request for Proposals for a Resident Project Representative. We are a women-owned business providing technical services in multiple categories for federal, state, and local agencies; and CPUC regulated utilities.

We understand that the District is seeking a Resident Project Representative to oversee the construction of upgrades to the Wastewater Treatment Facility located at 1400 Southgate Drive in Sonora in Tuolumne County. The District intends to begin construction at the wastewater treatment facility in the Summer/Fall of 2021 with a construction duration of around eighteen (18) months with an estimated cost of $25 Million which will be funded by a combination of District customer rates, loans, and grants. The Resident Project Representative shall be on-site every day during active construction for the duration of the project.

2 Scope of Work

The scope of work, as we understand it, is for the Resident Project Representative to work with the District staff and Project Engineering team to:

- Review pre-bid documents, the plan set for bid, and participate in the pre-bid meeting to thoroughly familiarize themselves with the project prior to starting construction
- Communicate with Owner with the knowledge of and under the direction of the Engineer
- Review the progress schedule, schedule of Shop Drawing and Sample submittals, schedule of values, and other schedules prepared by Contractor and consult with Engineer concerning acceptability of such schedules
- Attend meetings and conferences, such as preconstruction conferences, progress meetings, job conferences, and other Project-related meetings (but not including Contractor's safety meetings), and as appropriate prepare and circulate copies of minutes
- Comply with all site safety programs, as they apply to RPR, and if required to do so by such safety programs, receive safety training specifically related to RPR's own personal safety while at the Site
- Serve as Engineer's liaison with Contractor and assist in providing information regarding the provisions and intent of the Construction Contract Documents
- Assist Engineer in serving as Owner's liaison with Contractor when Contractor's operations affect Owner's operations
- Receive from Contractor submittal of RFIs or questions relating to the acceptability of the work under the Construction Contract Documents. Report to Engineer when clarifications

and interpretations of the Construction Contract Documents are needed and transmit Engineer's clarifications, interpretations, and decisions to Contractor

- Advise Engineer and Contractor of the commencement of any portion of the work requiring a Shop Drawing or Sample submittal
- Consider and evaluate Contractor's suggestions for modifications to the Drawings or Specifications, and report such suggestions, together with RPR's recommendations to Engineer
- Report to Engineer any defective work and provide recommendations as to whether such work should be corrected, removed and replaced, or accepted
- Inform Engineer of any work that is not compatible with the design concept of the completed Project as a functioning whole, and provide recommendations to Engineer for addressing such work
- Consult with Engineer in advance of scheduled inspections, tests, and systems start- ups
- Observe, record, and report to Engineer appropriate details relative to the test procedures and systems start-ups and verify that tests, equipment, and systems start-ups and operating and maintenance training are conducted in the presence of appropriate Owner's personnel, and that Contractor maintains adequate records
- Observe whether Contractor has arranged for inspections required by Laws and Regulations, including but not limited to those to be performed by public or other agencies having jurisdiction over the work
- Accompany visiting inspectors representing public or other agencies having jurisdiction over the work, record the results of these inspections, and report to Engineer
- Maintain at the Site orderly records and files for all Construction Contract Documents
- Prepare daily and periodic reports with photos and send copies to Engineer
- Upon completion of the work, furnish original set of project documentation to Engineer
- Draft and recommend proposed Change Orders, Work Change Directives, and Field Orders and obtain backup material from Contractor
- Inform Engineer of the occurrence of any Site accidents, emergencies, acts of God endangering the work, possible force majeure or delay events, or the discovery of any potential differing site conditions
- Review and recommend applications for payment
- Verify materials and equipment certificates, operation and maintenance manuals and other data required by the Contract
- Assist the Engineer in implementing the Engineer's Responsibilities for project compliance with the USDA RUS American Iron and Steel Requirements
- Assist in the determination of Substantial and Final Completions and prepare punch lists
- Observe whether all items on the final punch list have been completed or corrected and make recommendations to Engineer concerning acceptance and issuance of the Notice of Acceptability of the work

3 Relevant Experience and References

SR Diversified, LLC holds master services agreements with numerous utilities and engineering firms. Services are currently being provided under these agreements and include: developing and supporting powerhouse start-up testing, design plans constructability review, early contractor involvement, construction inspection, project management, and hydro power plant specific technical work. The table below lists some of those firms. Specific project experience of the project team members is provided in Section 4 in each individual resume.

Firm	Public/Private Entity	Location	Operational Activities
El Dorado Irrigation District	Public	El Dorado County	Water supply, wastewater treatment, recreation, and hydroelectric production
Nevada Irrigation District	Public	Nevada County	Water supply and hydroelectric production
Pacific Gas & Electric	Private	California	Hydroelectric production
Placer County Water Agency	Public	Placer County	Water supply, recreation, and hydroelectric production
GHD, Inc.	Private	Nation-wide	Engineering services for the water, wastewater, and hydroelectric industry
Mead & Hunt	Private	Nation-wide	Engineering services for the water, wastewater, and hydroelectric industry
HDR, Inc.	Private	Nation-wide	Engineering services for the water, wastewater, and hydroelectric industry
Black & Veatch	Private	Nation-wide	Engineering services for the water, wastewater, and hydroelectric industry
Yuba County Water Agency	Public	Yuba County	Water supply, recreation, and hydroelectric production

3.1 References

Name	Email	Mobile Phone
Justin Hoffman, Principal Engineer **Yuba Water Agency**	jhoffman@yubawater.org	(530) 712-7208
David Jermstad, Senior Project Manager **GHD Engineering**	David.Jermstad@GHD.com	(530) 306-6794
Tim Truong, Chief Dam Safety Engineer **Yuba Water Agency**	ttruong@yubawater.org	(530) 701-5613
Kyle Morgado, Hydro Engineer **Yuba Water Agency**	kmorgado@yubawater.org	(530) 632-7054

4 Project Team

SR Diversified, LLC proposes the following team members to assist TUD for the Sonora Regional Wastewater Treatment Plant Upgrades project:

- ***David Powell*** – Primary Resident Project Representative
- ***Steve Lindstrom*** – Secondary Resident Project Representative
- ***James (JT) Thrower*** – Secondary Resident Project Representative
- ***Natane Roges- Engle*** – Operating Manager, QA/QC Manager
- ***Cindy Megerdigian*** – President
- Other staff can be available if needed

David Powell, P.E.

EDUCATION

California State University, Sacramento – MS in Civil Engineering
University of Phoenix, Sacramento – MA in Organizational Management
Seattle University, Seattle Washington – BS in Civil Engineering

PROFESSIONAL REGISTRATION

California-Licensed Professional Engineer – No. C38650

PROFESSIONAL BACKGROUND

Mr. Powell has nearly 40-years experience in the planning, design, construction and operation of hydroelectric, water, and wastewater facilities; including six years as District Engineer at the El Dorado Irrigation District (EID), directing planners, engineers, operations, and construction professionals. He holds a comprehensive perspective and directs projects with an inclusive and results-oriented management style using open and established communication protocols. Mr. Powell is a sought-after mentor and strategist for complex projects and has successfully completed numerous designs from concept through operating completion by including operations personnel in the planning, design and construction processes. He strives to ensure the completed project not only meets his client's needs, but functions as desired and includes thorough documentation and training. Throughout his career, he has garnered the respect of both public and private utility managers, engineers, operations personnel, regulatory and resource agency managers, and construction contractors.

KEY EXPERIENCE

District Engineer and Senior Engineer – El Dorado Irrigation District.....1990 to 2007

- Responsible for six Divisions including 180 operators and engineers with annual operating budgets in excess of $18 million. Developed and managed department budgets and projections of revenue in conjunction with the Finance Director.
- In charge of performance reviews, performance improvement plans, hiring, firing, promotions and demotions in cooperation with the Human Resources Department.
- Developed Capital Improvement Plans and budgets for water and sewer infrastructure upgrades. Worked closely with the Finance Director to project revenue and impacts to water and sewer rates
- Coordinated with District managers, resource agency managers, and the District Board to accomplish the relicensing of FERC Project 184, a 21MW Hydroelectric Project located on the South Fork of the American River.
- Oversaw planning, budgeting, scheduling, implementation, and execution of the FERC Project 184 license amendment conditions, including changed minimum environmental maintenance flows, capital improvements, and reporting requirements.

- Pioneered and successfully implemented the State's first peak load shedding program in conjunction with PG&E. Worked with water operations staffs, PG&E's account managers and the Department of Public Health to shift water pumping operations out of the peak power cost periods and into the off-peak hours. Program saved significant pumping costs. The District was recognized by the Association of California Water Agencies and PG&E as an innovator for saving power.
- Working under an emergency declaration to protect residents and maintain reliable water supply, was the project manager to replace 5.5 miles of 36-inch Techite transmission pipe with welded steel pipe. This project required design, bidding and construction on a compressed timeline. Project route included sensitive environmental wetland areas and established vineyards.
- Project Manager for three related critical water supply reconstruction projects resulting from historic floods in January 1997; 1) reconstruction of Kyburz Diversion Dam in the South Fork of the American River, 2) construction of the Mill-Bull tunnel, and 3) reconstruction of the 21MW El Dorado Powerhouse. After 5 years of non-use, 1/3 of the EID Pre-1914 water right was in danger of re-appropriation and these three projects required completion before the end of 2002. All three projects faced major challenges in design as well as implementation and construction; the Kyburz Dam was completed in four months starting in August. Project was constructed on a 24-hour per day, 7 day week schedule; the Mill-Bull Tunnel faced major environmental challenges with the USFS and was constructed as a pressurized tunnel rather than gravity flow as designed, and the El Dorado Powerhouse project was redesigned to flood-proof the powerhouse and install the turbines with exterior cranes rather than the internal powerhouse crane as originally advertised. All three projects were completed in advance of the water right re-appropriation deadline.

Senior VP of Engineering – NLine Energy, Inc.....2011 to 2019

- In charge of hydroelectric station hydraulic concept and feasibility, preliminary design, turbine technology applications, determining the basis of operation and generation, facility layout and design, cost estimating, preparation of plans and specifications, project bidding and implementation, utility interconnection, startup, commissioning and training, and overall project and construction management. Successfully implemented a hydraulic pressure reducing turbine in a potable water system. Worked with the Department of Public Health to amend the water supply permit and certify compliance with NSF requirements.

Project Director – PBS&J/Atkins.....2009 to 2011

- Duties included marketing and developing strategic client relationships (foothills and SF Bay Area) in combination with program management under contract with the California Department of Water Resources for numerous projects supporting California's FloodSAFE Program, including creation of the California Levee Database. Responsible for project controls and Earned Value Management (EVM) for the $110M Central Valley Floodplain Evaluation and Delineation (CVFED).

Senior Project Manager – Psomas & Associates .....2007 to 2009

- Performed design applications for hydraulic machines, structural and pipeline systems design, field inspections, construction resident engineering, project management

Steve Lindstrom

PROFESSIONAL BACKGROUND

Mr. Lindstrom has over 35 years of experience in the construction of hydroelectric, water, and wastewater facilities; including pipelines, pump stations, conveyance systems, treatment works, and power plants. He is highly skilled at organizing, implementing, and directing construction, maintenance, and operation activities and has successfully completed numerous FERC Project 184 construction projects. He has vast knowledge of the principles and practices associated with the operations, construction, and maintenance of hydro systems, water storage and conveyance systems, and related facilities and the equipment and materials used in the operation, construction, and maintenance. Using his construction experience, he has provided constructability review for many capital improvement projects related to the FERC Project 184 hydro facilities to ensure the constructed project meets operational needs and functions as designed.

KEY EXPERIENCE

Inspector – SR Diversified, LLC..... 2016 to present

- Inspector on sediment removal of reservoirs and dams, excavation of earthwork and backfill, campground improvements, and road improvements working directly with owners and consultants insuring compliance with the plans, specifications, and regulatory permits

El Dorado Irrigation District – Hydro Operations and Maintenance Supervisor ..... 1996 to 2014
El Dorado Irrigation District – Foremen/Utility Worker..... 1978 to 1996

- Planned, prioritized, assigned, supervised, and reviewed the work of staff and material procurement during annual outages of the FERC Project 184 system
- Developed and administered budgets, prepared cost estimates, and justifications for equipment, materials, and supplies purchases for daily actives and for the annual FERC Project 184 outage
- Served as field liaison between FERC, California Department of Water Resources Division of Safety of Dams (DSOD), U.S. Forest Service (USFS), and the public regarding construction, maintenance, and operations activities within FERC Project 184
- Established schedules and methods for maintaining and operating water conveyance, storage, and irrigation system, ensuring compliance with local, State, and Federal regulations including FERC license requirements.
- Supervised the operations, maintenance, and construction associated with the FERC Project 184 water conveyance system used for hydroelectric power generation and water delivery
- Performed review of engineered capital improvement projects for constructability and compliance with District construction standards
- Monitored and coordinated the work of contractors performing work on water storage and conveyance facilities with system operations

James (JT) Thrower

EDUCATION

Santa Rosa Junior College – Santa Rosa, CA
Associate Degree in Forestry

TRAINING/CERTIFICATIONS

- Certified Competent Person in shoring and trench safety and confined space for tunnels, pipes, and structures
- CPR Certified

PROFESSIONAL BACKGROUND

Mr. Thrower has more than 25-years experience with construction companies that specialize in underground construction for commercial and housing subdivisions. As superintendent, he oversaw multiple field crews with as many as 120 laborers and equipment operators. As a Field Inspector he inspected civil hydro projects including: water canal reconstruction, penstock installation, rebar, shotcrete, concrete, and tunnels. As a Foreman at PG&E, his responsibilities included overseeing crews of 5 to 20 laborers, equipment operators, pipe fitters, welders, concrete specialists, form work carpenters, rebar and steel workers, and gunite and shotcrete installers. Many projects were valued in excess of one-million and up to fifteen-million dollars.

KEY EXPERIENCE

Inspector – SR Diversified, LLC..... 2017 to present

- Inspector on sediment removal of reservoirs and dams, excavation of earthwork and backfill, campground improvements, and road improvements working directly with owners and consultants insuring compliance with the plans, specifications , and regulatory permits

Superintendent/Foreman – various construction firms..... 1988 to 2017

- Supervised crews on construction works pertaining to water canals, shotcrete, penstock replacement and wood structure flumes. In charge of safety and lifting for jobs requiring helicopters.
- Excavated roadways, new levee construction, and installed sewer, storm drain and water systems.
- Responsible for all project phases including scheduling crews and materials from excavation to completion.

Foreman – Pacific, Gas, & Electric ..... 1979 to 1988

- Responsibilities included scheduling materials and crews, maintaining budget, conducting safety meetings, and estimating costs for repairs on water lines.
- Installed penstocks from 24 to 120-inch diameter in locations of Battle Creek Project in Red Bluff and Redding area, Feather River Canyon System (Oroville to Lake Almanor) to all of the Pit River Power System (Burney to Redding)
- Supervised work on multiple dams, penstocks, water canals and pipe systems from Placerville to Bakersfield in the PG&E system.

Natane Rogers-Engle
Vice President of Operations/Operating Manager

EDUCATION

California State University, Sacramento – Sacramento, California
Bachelor of Science, Construction Management; Minor, Business Management

PROFESSIONAL BACKGROUND

Ms. Rogers-Engle has over 16-years of experience in project management, heavy civil and commercial construction. This experience includes programming, design-build, budgeting, estimating, constructability, and construction management. She has a collaborative/coaching management style with a visionary perspective. She focuses on the needs of her clients while creating and supporting her teams, always keeping the big picture in mind. Through this approach she has been instrumental in helping clients achieve and exceed their goals.

Ms. Rogers-Engle has worked on a wide array of project types and complexity ranging from light rail, underground, concrete, paving, data centers, commercial office, retail space and healthcare. In addition, she has proven her ability to adapt and adjust depending on client's needs by observing, learning, asking questions, preparing alternative solutions and keeping a level head. She has earned the respect of her clients, teams and subcontractors throughout her career.

KEY PREVIOUS EXPERIENCE

Sr. Project Manager..... 2017 to 2020

- UCDH Clinic – Managed demolition and remediation of 30,000 sf office space. Build-out of structure to clinic space.
- Managed Federal Reserve Bank San Francisco replacement of all exterior ground hydrants.
- AT&T Program Management of multiple retail site renovations and re-branding in California, Montana and Idaho.
- Managed PG&E Re-Grade and Re-Pave 10 acre site. Complete site concrete work for vehicle lifts and large scrap bins. Multiple spoils sites remediation, demolition and construction.
- Lead study to evaluate electrical and power systems at PG&E Fairfield Data Center, San Ramon Conference Center and San Ramon Tech Center to determine risks and hazards in relation to electrical systems.
- Managed programming and design of PG&E Concord Service Center consisting of 30,000 sf of office space remediation and remodel. Created phased approach to keep the building operational throughout project.
- Planned and managed PG&E Bishop Ranch Building Z Seismic Upgrade of MEPF systems.

- Planned, organized and executed PG&E Main Sewer Line Replacement at San Ramon Tech Center. Project included excavating and shoring 25' of sewer to a 13' depth inside occupied building down the main hallway and roughly 120' of exterior excavation, installation of pump station and electrical controls.

Project Engineer/Project Manager..... 2004 to 2017

- Sacramento RT Richards Blvd. Light Rail Expansion – Maintain project schedule and forecasting. Manage subcontracts, liaison with the owner's representative and subcontractors. Acting superintendent for field crews.
- San Francisco MUNI Light Rail Maintenance Facility construction – Update and distribute as-builts daily and maintain testing logs. Review and submit RFI's and Submittals.
- Manage multiple IT projects for CSAA IG

Cindy Megerdigian, P.E.
President

EDUCATION
California State University, Chico – Chico, California
Bachelor of Science – College of Engineering, Science, and Technology

PROFESSIONAL REGISTRATION
California-Licensed Professional Engineer – No. C66987

PROFESSIONAL BACKGROUND
Ms. Megerdigian has nearly 30 years of experience in the budgeting, design, and construction of hydroelectric, water, and wastewater facilities; including six years as the Water/Hydro Engineering Manager at the El Dorado Irrigation District (EID), directing engineers and construction inspectors. She has a results-oriented working and management style, with open communication and responsiveness, and is a forward thinker anticipating the resources needed considering both short-term and long-term goals and actions. She has successfully completed numerous design and construction projects by including operations personnel in the planning and design process to ensure the constructed project meets their needs and functions as designed. Throughout her career, she has garnered the respect of managers, operations personnel, outside regulatory agencies, construction contractors, and the EID Board of Directors.

KEY EXPERIENCE
Sr. Engineer and Water/Hydro Engineering Manager – EID..... 2004 to 2014

- Managed the hydroelectric and water capital improvement program, with $10 – $20 million in annual expenditures, from inception through construction; including budgeting, scheduling, and construction management.
- Prepared and implemented a canal and flume replacement program for the Federal Energy Regulatory Commission (FERC) Project 184 system. Identified and implemented construction projects required by the then newly issued FERC Project 184 license. The program has resulted in system improvements of more than $50 million over a 10-year period.
- Served as liaison between FERC, California Department of Water Resources Division of Safety of Dams (DSOD), U.S. Forest Service (USFS), and the public regarding capital improvements within Project 184; as most of the FERC Project 184 is located on USFS lands.
- Acted as backup Chief Dam Safety Engineer for EID, with ten dams regulated by DSOD, five of which are also FERC-regulated.

Assistant/Associate Civil Engineer – EID..... 1991 to 2004

- Developed and implemented a wastewater corrective action program in response to a cease and desist order from the state. The program led to upgrades to the existing, and construction of new, wastewater collection system facilities.
- Put into practice a recycled water program through the formation of a state-approved management structure and provisions of a new state permit, the first if its kind in California.
- Conducted master planning for future water supplies and facilities, wastewater collection system improvements, and recycled water development options.

5 Schedule of Rates

SR Diversified, LLC rates for the Resident Project Representative for the duration proposed in the RFP are listed in the table below.

Name	Standard Rate	Overtime Rate	Double-Time Rate
David Powell	$135	$190	$250
Steve Lindstrom	$135	$190	$250
JT Thrower	$135	$190	$250
Natane Rogers-Engle	Included in other rates		
Cindy Megerdigian	Included in other rates		

- SRD follows the Department of Industrial Relations rules for Overtime with the following exceptions (http://www.dir.ca.gov/dlse/faq_overtime.htm):
  - Our standard work-week is Monday through Sunday
  - Overtime applies to all hours worked over 40 hours in one week and Saturdays
  - Double-time applies to all hours worked over 12 hours in one day and Sundays
- Rates are fixed for duration of the project
- Any mileage charges will be at the then current IRS rate
- SRD will provide tools to perform work including computer, vehicle, and appropriate PPE
- Project-specific expenses will be reimbursed at cost by receipt at cost
- If a substitution in the primary RPR is required, SRD will provide "double staffing" for one-half working day without cost to TUD for transfer of knowledge

6 Project Documentation

SR Diversified, LLC utilizes Viewpoint by Vista for project management and inspection documentation. Attached at the end of this proposal are examples of an RFI, Change Order, and Daily Report. If the District or their Engineer have another program or method they would like used, we will use it instead.

7 Quality Assurance and Control

SR Diversified, LLC operates on the core values of accountability, integrity, and commitment to deliver creative solutions and build long-term relationships. We understand the needs and demands of the hydroelectric and public utility industry and work with you to ensure your projects are a success. Any documents prepared by SRD staff go through a quality control review to ensure quality assurance. Additionally, we maintain strict safety compliance through conformance with our Injury and Illness Prevention Program.

8 Contract and Insurance Requirements; Conflicts

SR Diversified, LLC has previously executed contracts with agencies similar to Tuolumne Utilities District and can meet all the insurance requirements.

We have no current or reasonably foreseeable actual or potential conflicts that could hinder us from providing the requested services.

9 Addenda

Addenda 1 and 2 have been received and acknowledged.

12/04/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.1

PROJECT: Resident Project Representative Services for the Sonora Wastewater Treatment Facility

TO: All Planholders

FROM: Tuolumne Utilities District

PROPOSAL DATE: Unchanged

Notice is hereby given to prospective proposers that the Proposal Documents for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility have been modified as hereinafter set forth. This Addendum No.1 shall form a part of the Proposal Documents and takes precedence over the original Proposal Documents.

The following revisions, additions, replacements, clarifications, or deletions shall be made to the Contract Documents:

REPLACEMENT: Exhibits C & D
The attached Exhibits C & D dated 12/04/2020 shall replace Exhibits C & D of the original proposal documents.

CLARIFICATION: Exhibit C, Federal Requirements
Compliance with all Federal Requirements listed in Exhibit C must be adhered to in order to be considered an eligible proposer.

Proposers shall acknowledge receipt of Addendum No.1 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer

I acknowledge receipt of Addendum No.1.

Signed _____
Proposer

12/30/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.2

PROJECT:	Resident Project Representative Services for the Sonora Wastewater Treatment Facility
TO:	All Planholders
FROM:	Tuolumne Utilities District
PROPOSAL DATE:	Unchanged

Notice is hereby given to prospective proposers that the Proposal Documents for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility have been modified as hereinafter set forth. This Addendum No.2 shall form a part of the Proposal Documents and takes precedence over the original Proposal Documents.

The following revisions, additions, replacements, clarifications, or deletions shall be made to the Contract Documents:

CLARIFICATION: Project Scope

The Resident Project Representative (RPR) shall act as an Inspector for the District and a liaison between the Engineer and the Contractor. The District will be providing a Construction Manager for the project that will be responsible for record keeping, processing pay requests, communications, etc. The RPR *is not* a Construction Manager nor shall he/she be responsible for tasks typically conducted by a Construction Manager. Any required special inspections will be coordinated by the project Engineer and are not the responsibility of the RPR. The RPR shall be present at all special inspections.

It is the District's intention to hire a firm which uses the same person for the Inspector throughout the duration of the project. The Inspector may utilize office support staff for some documentation; however, all daily logs shall be record by himself/herself. Please read Exhibit D-Services of the Resident Project Representative in the Request for Proposal very carefully.

Attached to this addendum is a plan view of the overall project site, the hydraulic profile of the project and a process flow diagram to help proposers better understand the breadth of the project.

Proposers shall acknowledge receipt of Addendum No.2 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer
Tuolumne Utilities District

I acknowledge receipt of Addendum No.2.

Signed _____
Proposer Signature

PM Daily Project Log - Options

Project: 2010. All Log #s All Dates

Log Date:

Daily Log:

Weather : **Temp: -** **Wind:**

Contact	StartTime	EndTime	Phase	Worked	Location

Crew	StartTime	EndTime	Supervisor	Foreman	Jrnymen	Apprentice	Location

Firm	StartTime	EndTime	Supervisor	Foreman	Jrnymen	Apprentices	Location

EMCo	Equipment	Firm	Quantity	Location

Description	Location	Issue

Description	Firm	Contact	Issue

Firm	PO	Material	Time	Location	DelTicket

Description	Firm	Employee	Time	Location	Issue

Activity	Visitors	Arrived	Departed	Location	Issue

Change Order

Distribution ☐
☐
☐ Office ☐ Field
☐ Other

Project: **Contract Number:**

Proposed Change Order #:

To (Contractor): **Change Order Date :** 01/08/21

You are directed to make the following changes in this Contract:

C.O. Item	Contract Item	Change in Days	UM	Units	Description	Unit Price	Amount

Total For Change Order:

Not valid until signed by both the Owner and Architect. Signature of the Contractor indicates the Contractor's agreement herewith, including any adjustment in the Contract Sum or Contract Time.

The original Contract Sum was	
The net change by previously authorized Change Orders was	**0.00**
The Contract Sum prior to this Change Order was	
The Contract Sum will be by this Change Order	
The new Contract Sum will be	

Authorized By Owner:	**Accepted By Contractor:**	**Architect/Engineer:**
By: _____	**By:** _____	**By:** _____
Date: _____	**Date:** _____	**Date:** _____

PM Request For Information

Projects: 2010. - 2010. RFI Type: All RFI's: All

Project:

Type: **RFI:**

Subject	Date	Issue	Status	Submittal	Drawing #	Addendum	Spec Section	Schedule #

RFI:

Information Requested:

To Firm: **Date Sent:**

To Contact: **Date Received:**

Responsible Person	From Firm	From Contact

Schedule and Cost Impact - Description

Days: **Costs:** **Total Price:**

Notes:

Distribution

RFI Seq	Sent To Firm	Sent To Contact	Date Sent	Information Reqd	Date Reqd	Response

ICM Proposal

ICM

January 8, 2021

Ms. Jennifer Batt, PE
Tuolumne Utilities District
18885 Nugget Blvd.
Sonora, CA 95370

RE: Resident Project Representative Services for the Sonora Wastewater Treatment Facility Project

Dear Ms. Batt,

We are pleased to present this letter proposal for a Resident Project Representative (inspector) for the Sonora Wastewater Treatment Facility. Since 2004, ICM has been providing outstanding services for local districts, cities, and agencies. We are solely a third-party construction management and inspection firm specializing in wastewater and water treatment plants, pump stations, and pipelines. We are not a design firm, nor do we work on roads, bridges, or other types of projects. To Date, ICM has successfully completed 20 treatment plants, 22 pump stations, and over 60 pipeline projects. When you hire us, you hire a firm, and our staff, who are dedicated to exactly the type of exciting and important project you are about to construct.

The Tuolumne Utilities District (District) will soon start the construction of a new wastewater treatment facility! That is exciting and we would like to help you succeed. The new treatment facility will be capable of treating 5.0 MGD of Max Day wastewater flow and will be replacing the District's existing treatment facility. We understand that ICM's work will begin in January or February by reviewing pre-bid documents and plans. Construction work is anticipated to begin in the Summer/Fall of 2021 with a construction duration of approximately 18 months. This $25 million project will require a full time inspector with excellent communication skills and well versed in all the trades; and our inspector, Augustine Inferrera, is an excellent fit for the District's Project.

We understand, per Addendum 2, that construction management (nor Resident Engineering) is required as part of the Scope of Services. It has been our experience that a project of this size will require a construction manager experienced in wastewater treatment plant construction with 50 percent utilization. We also understand, per Addendum 2, that special inspections are not required as part of this Scope of Services. We identify the need, at a minimum, for the following special inspections and note who we typically use for our Projects:

Geotechnical Engineer Special Inspection	We normally use BSK or Youngdahl, but there are numerous other quality geotechnical firms to choose from.
Soils, Concrete, and Asphalt Laboratory and Field Inspection	This normally falls within the scope of the special inspection firm, but we sometimes perform field inspection of soils depending on the Project needs.
Reinforcing Special Inspection	Our construction inspector normally performs this inspection but often it is done by the special inspection firm.
Anchor Bolt Special Inspection	Our construction inspector normally performs this inspection, but it could fall under the special inspection firm.
Electrical Special Inspection	Our construction inspector normally performs most of this inspection and then we always follow up with our own electrical inspector, Steve Miller. His resume is attached.
Coatings Special Inspection	We have always used Bay Area Coatings Consultants although sometimes our inspector will perform the coatings inspection.

We have reviewed and take no exception to the Scope of Services presented in Exhibit D (Article 1) of the Agreement and also presented in Addendum 1. The Scope of Services presented are typical for public works projects. However, this is a complicated wastewater treatment plant project. It will require meticulous coordination with plant staff for shutdowns and tie ins while maintaining the treatment of influent. Electrical, instrumentation and control systems are going to be critical and their testing and prove out are going to be instrumental to a successful project. Your Project will require excellent organizational and communication skills of all team members. The inspector is going to be a key team member, and more is going to be required of the inspector than is defined in the Scope of Services. We look forward to discussing with you the Scope of Services in more depth.

Our proposed inspector is Augustine Inferrera, EIT (resume attached). Augustine has been involved in the construction management and inspection business since he was a teenager working for ICM in the office. Before college, he already had years of experience with construction management paperwork including reading plans, specifications, submittals, and RFIs. He graduated from UCLA civil engineering in 2019 and started working in May 2019. Since then, he has been working on ICM projects as an inspector.

One of his first projects was to work under Paul Lopez, RCI, an inspector with 35 years of experience, on the complicated Yuba City's Wastewater Treatment Rehabilitation Project. On this $20 million project most of the Plant's systems and processing were improved including all new transformers (five), new MCCs, all new PLCs, headworks, aeration basins, digester facilities, sludge dewatering facility, and electrical buildings. On this project, Augustine was trained with one of the best inspectors in the wastewater treatment plant business. He was trained on all the trades as well as safety, red lining drawings, communicating with Plant management, contractor's personnel, the designer, and the City's engineer.

After working under Paul, Augustine was trained under Tom Gomes on the Sacramento County Arden Pipeline Project. With over 35 years of experience, Tom Gomes is one of the best pipeline inspectors in the business. Augustine was trained on all aspects of pipeline work including safety, trenching, pipe laying, special fittings, backfill, compaction, and communicating with the contractor's field personnel.

Next, Augustine worked with Jeff Inferrera, as joint inspectors on the Hanks Exchange Pipeline Project. With over 30 years of experience, Jeff Inferrera is one of the best construction managers in the business. Augustine ended as the lead inspector on this Project with oversight by Jeff.

Since then, Augustine has been working as a lead inspector on Delta Diablo's wastewater pump station rehabilitation project. This project consists of the rehabilitation of five pump stations, shutdowns, tie ins, and the inspection of all trades.

Through these projects, Augustine has demonstrated exceptional communication and problem-solving skills. He is detail oriented and works well with the contractor. Examples of Augustine's daily reports are attached. His references are as follows:

Yuba City WWTF Improvements Project

Owner: City of Yuba City
Duration: 2019 - 2021
Construction Value: $20 million
Project Overview: The City of Yuba City Wastewater Treatment Facility Improvements Project consisted of Digester fixed covers and gas system piping, Bar Screen replacement, structural steel canopy and sludge dewatering screw presses including conveyance system. Major electrical and control improvements included new Motor Control Centers, PLC's, 12KV transformers, electrical ductbanks, and SCADA integration of five process areas, plus modernization of facility network.
Reference: Mike Finnegan, Plant Superintendent
Email: mfinnigan@yubacity.net
Phone: (530) 822-7696

Delta Diablo Pump Stations Improvements Project

Owner: Delta Diablo Sanitation District
Duration: 2019 - 2021
Construction Value: $10 million
Project Overview: The Project consisted of improvements at Antioch, Bridgehead, Pittsburg, and Shore Acres Pump Stations and the Broadway Diversion Facility. Construction included replacement of part and upgrades. Critical work included bypass pumping, electrical and instrumentation improvements, and changes to equipment, piping, gates, and valves.

Reference: Sean Williams, PE, District Project Manager
Email: seanw@deltadiablo.org
Phone: (925) 756-1926

Other Resources

ICM has one of the largest staff of construction managers and inspectors dedicated solely to wastewater and water public works projects in northern California. The table below lists our resources:

ICM Resources Chart	CA Licensed Engineer	Construction Management	Treatment Plant Inspection	Pump Stations Inspection	Pipeline Inspection	Civil Inspection	Structural Inspection	Mechanical Inspection	Electrical Inspection	Coatings Inspection	OSHA 10 Hour Safety	Confined Space	Years at ICM	Years' Experience
Principle / Project Manager / Construction Manager / Inspector														
Jeffrey Inferrera, PE, RCI	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	15	31
Construction Manager / Inspectors														
Ricardo Bedoy, PE	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	4	36
Ken Zeier, PE	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	6	27
Don Kurosaka, PE	♦	♦	♦	♦	♦	♦	♦	♦		♦	♦	♦	2	30
Inspectors														
Paul Lopez, RCI		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	8	30
Steve Miller		♦	♦	♦	♦				♦		♦	♦	13	32
Hitesh Joshi, RCI			♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	13	30
David Steinbeck			♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	5	15
Thomas Gomes					♦	♦	♦	♦			♦	♦	5	35
Matt Livingston, ICC			♦		♦	♦	♦		♦	♦	♦	♦	2	18
Larry Mathews					♦	♦					♦	♦	4	40
Chris Inferrera, EIT			♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	4	6
George Ackerman, RCI			♦	♦	♦				♦		♦	♦	2	25
Keith De Lapp, B. Sc. Arch. Eng.		♦	♦	♦	♦	♦	♦	♦			♦	♦	1	30
Kyle Drury, PE	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	2	2
Augustine Inferrera, EIT			♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	2	7
Document Control / Administration														
Colleen Ryan											♦	♦	3	3

We have worked with numerous agencies, many as repeat customers. The table below lists our clients:

ICM *Client List and Their Facilities*	Size (x1,000 Customers)	Public	State	Wastewater Treatment Plants	Water Treatment Plants	Sewer Lift Station	Water Pump Station	Water Storage Tanks	Sewer Pipelines	Water Pipelines	Water Services	Developer Projects	Reservoirs and Canals	Number of ICM Projects
El Dorado Irrigation District	100	Yes	CA	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	28
City of Manteca	72	Yes	CA	♦		♦	♦	♦	♦	♦	♦	♦		20
City of Folsom	73	Yes	CA		♦	♦	♦	♦	♦	♦	♦	♦		6
Citrus Heights Water District	67	Yes	CA		♦	♦	♦	♦	♦	♦	♦	♦		8
Calaveras County Water District	17	Yes	CA			♦	♦	♦	♦	♦	♦	♦	♦	5
Town of Discovery Bay	13	Yes	CA	♦		♦	♦	♦	♦	♦	♦	♦		1
City of Davis	66	Yes	CA	♦		♦	♦	♦	♦	♦	♦	♦		1
Sacramento Suburban Water District	173	Yes	CA							♦	♦	♦		4
Nevada County	98	Yes	CA	♦		♦			♦			♦		1
San Juan Water District	160	Yes	CA		♦		♦			♦	♦	♦	♦	6
Groveland Community Services District	5	Yes	CA	♦		♦		♦	♦	♦	♦			2
Contra Costa Water District	500	Yes	CA		♦		♦			♦	♦		♦	2
Delta Diablo Sanitation District	200	Yes	CA	♦		♦			♦					2
Stanislaus Regional Water Authority	100	Yes	CA				♦							2
Golden State Water Company	255	No	CA		♦		♦			♦	♦	♦	♦	6

Paul Lopez, RCI, whose resume is attached, will be the backup inspector for vacation and PTO time.

ICM's QA/QC program provides for oversight of staff work products. Larry Mathews, whose resume is attached, is our QA/QC manager. He has over 40 years of experience in the inspection industry. His role is to check the work of our inspectors including daily reports, photographs, and red line drawings. He also performs site visits and provides technical support. Jeff Inferrera and Paul Lopez supplements the QA/QC process, performs site visits, and provides technical support. Suffice to say, our inspectors are not alone, we continually provide support. Our QA/QC program is incorporated into our overhead and there are no additional charges.

For the review of pre-bid documents and plans, the review will be performed jointly with Augustine Inferrera and Jeffrey Inferrera, PE. Jeff's review will provide an exceptional value to the Project. Only Augustine's time will be charged.

Our Fee Schedule is attached. We have no exceptions with the terms of the Standard Agreement for Consulting Services. We acknowledge Addenda 1 and 2 (attached).

Augustine is committed for the duration of your Project. We look forward to an interview to discuss his qualifications more thoroughly. If you have questions, please call me at 916-792-9871.

Sincerely,
Inferrera Construction Management Group, Inc.

Jeffrey Inferrera, PE
President

Attachments:

- Resumes
- Fee Schedule
- Addenda 1 and 2 signature pages
- Daily Reports

Augustine Inferrera, EIT | Inspector

ICM

Mr. Inferrera specializes in water and wastewater inspection and construction management. He has been working for Inferrera Construction Management Group, Inc. since graduating in a civil engineering program in 2019. Augustine is experienced with site civil work including grading, backfill and compaction as well as underground and aboveground pipelines, electrical, paving, and concrete work. He is detail oriented and proficient with reading plans and specifications.

Qualifications

Education:
B.S. Civil Engineering, University of California, Los Angeles, *cum laude*, 2019

Certifications:
10 Hour OSHA Safety Training, 2020

Confined Space Safety Training

First Aid Certified Training

SWPPP Practitioner Training, pending, 2020

Construction Permit – LRP Training, State Water Resources, 2020

Inspector - WWTP Rehabilitation Project – City of Yuba City, CA
The City of Yuba City Wastewater Treatment Facility Improvements project consisted of Digester fixed covers and gas system piping, Bar Screen replacement, structural steel canopy and sludge dewatering screw presses including conveyance system. Major electrical and control improvements included new Motor Control Centers, PLC's, 12KV transformers, electrical ductbanks, and SCADA integration of five process areas, plus modernization of facility network.

Inspector - Pump Station Rehabilitation Project – Antioch, CA
Delta Diablo Sanitation District Pump Station Rehab project consisted of rehabilitation of five pump stations. Work included all trades including site civil work to protect facilities from floods, concrete rehabilitation, new piping, new pumps, new electrical and I&C, HVAC, building construction.

Inspector - Arden Service Area Pipe Installation Project – Sacramento, CA
Project consisted of the construction of 8 inch and 12 inch water mains as well as fire hydrants, backflow preventers, appurtenances and tie ins, new metered services. Consisted of approximately 3 miles of pipeline. Inspection was performed on the pipe installation, lateral tie ins, bedding and backfill, shoring, and traffic control.

Inspector - VFWD Storm Water Trash Capture Project – Vallejo, CA
Project consisted of installation of Manufactured Treatment Devices (MTD) at three project locations (Solano Avenue, Sonoma Boulevard and Williams Drive) including traffic control, temporary storm drain diversion, demolition, deep excavation, material testing and disposal, shoring, dewatering, subgrade preparation, reinforced concrete foundations, installation of precast vaults with MTD, new reinforced concrete pipe, couplings, retrofit of existing vault with MTD, cast-in-place structures, storm drain manholes, retaining walls, backfill, grading, restoration, installation of curb and gutter, paving, and fencing.

Inspector – Barrett Ranch East Ph 1 Project – Sacramento, CA
This Sacramento Suburban Water District project consisted of 3,400 feet of 8 to 16 inch ductile iron water main line. Construction went down Don Julio Blvd and Antelope Road as well as newly developed areas. The project encountered extensive underground interferences. Inspection was performed on the pipe installation, lateral tie ins, bedding and backfill, shoring, and traffic control.

Document Control
5 years in construction document control: tracking and maintaining all construction documents including submittals, RFIs, change orders, meeting minutes, and correspondence.

Paul Lopez | Inspector

ICM

Mr. Lopez has 29 years of experience as a public works construction inspector. He has performed inspection on water and wastewater treatment and distribution projects including pump stations, pipelines, and treatment facilities. His work includes reinforced concrete and masonry structures, mechanical equipment, force mains, gravity lines, trenching, jack and bore, electrical and instrumentation, working in streets and working with the public.

Qualifications

Education/Certifications
Civil Engineering, California State University, San Diego, 1983 to 1986

Registered Construction Inspector (Division 1), American Construction Inspectors Association, No 6035

D1 – Water Distribution Operation, California Department of Health, No 42251

Competent Person Training, Trenching and Excavation

Confined Space Training, Asbestos Concrete Pipe Safety Training

Yuba WWTP Rehabilitation , City of Yuba City, CA
Inspector for the City of Yuba City Wastewater Treatment Facility Improvements Project consisted of Digester fixed covers and gas system piping, Bar Screen replacement, structural steel canopy and sludge dewatering screw presses including conveyance system. Major electrical and control improvements included new Motor Control Centers, PLC's, 12KV transformers, electrical ductbanks, and SCADA integration of five process areas, plus modernization of facility network.

Wastewater Treatment Plant Expansion Project, City of Woodland, CA
Senior construction inspector on this $28 million wastewater treatment plant expansion project. With a project duration of two years, provided inspection and reporting of over 10 structures including a new pump station at a depth of 15 feet including dewatering and Class 3 soils. Underground pipe trenches were shored and dewatered, soil conditions were poor. Inspected aboveground piping, concrete structures, manholes, and pump and mechanical systems. As the inspector of record, provided oversight of all construction activities, coordinated work activities with the general contractor, and was responsible for project daily inspection and report writing. In addition, worked directly with the design engineer to work through design changes and resolve construction issues. Reviewed progress payments, submittals, and RFI's.

Pleasant Grove Wastewater Treatment Plant, City of Roseville, CA
Inspector the Pleasant Grove $98 million wastewater treatment plant. For three years, provided inspection and reporting of over 20 structures including the pump station and headworks. Covered civil, structural and mechanical disciplines. Inspected deep underground pipelines that required shoring and dewatering. Inspected ductile iron pipe, vitrified clay pipe, reinforced concrete pipe, and lined piping systems. Mechanical inspection included vertical turbine pumps, compressed air filtration and HVAC systems. Inspected utilities, reinforced concrete and masonry structures, structural backfill, and roadway construction. Provided inspection for coatings and electrical. Reviewed contractor progress payments, submittals, RFI's and SWPPP.

Wastewater Treatment Plant Improvements Project, City of Manteca, CA
Inspector for a sludge removal system, water diversion structure, mechanical shop and employee locker room. The work included new masonry buildings, concrete diversion structure, underground pipelines, aboveground piping systems, mechanical systems and electrical improvements. As the inspector of record, provided oversight of all construction activities, coordinated work activities with the general contractor, and was responsible for project daily inspection and report writing. In addition, worked directly with the

design engineer to work through design changes and resolve construction issues. Reviewed progress payments, submittals, and RFI's.

Carson Creek Pump Station – El Dorado Irrigation District, CA. Inspector for the demolition of an existing sewer pump station and construction of a new replacement pump station. The work included new wet well, electrical/operations building, pumps, emergency generator, force main piping, gravity piping, electrical, and site civil.

Oak Avenue Pump Station – City of Folsom, CA. Inspector for the rehabilitation of an existing pump station and installation of new pumps. The work included new overflow holding tanks, pumps, force main piping, gravity piping, electrical, and site civil.

Lake Forest Pump Station – City of Folsom, CA. Inspector for the demolition of an existing pump station and construction of a new replacement pump station. The work included new wet well, pumps, emergency generator, force main piping, gravity piping, electrical, and site civil.

Atherton Pump Station and Tank Project – Manteca, CA. Inspector for the construction of a 5 MGD pump station, 3.6 million steel tank, and related electrical, controls, instrumentation, piping, and site civil work.

Bridlewood Canyon Pump Station – El Dorado Irrigation District, CA. Inspector for the rehabilitation of an existing sewer pump station. The work included wet well improvements, new MCC's and instrumentation, pumps, emergency generator, odor control, force main piping, electrical, and site civil.

Municipal Well Pump Station and Piping System - City of Woodland, CA
Senior construction inspector on this $1.5 million water pumping and piping system. The project included over 4,000 feet of underground piping including ductile iron pipe in City roadways. As the inspector of record, provided oversight of all construction activities, coordinated work activities with the general contractor, and was responsible for project daily inspection and report writing.

Van Maren Pumping Station, County of Sacramento, CA
Construction inspector for a new $17 million pump station. This 2 year project included a T-lock lined 35 foot deep wet well, two diversion structures, three tunnel borings and 1500 feet of 36" sanitary sewer pipeline 24 feet below grade. With poor soil conditions, shoring and dewatering was critical. Inspected subgrade, rebar, formwork, concrete placement, T-lock lining system, pipeline installation, backfill, pump installation, and instrumentation. Reviewed contractor progress payments, submittals, RFI's and performed SWPPP inspections.

Sedimentation and Flocculation Improvements Project – San Juan Water District, CA. Inspector for the replacement of sludge removal system, flocculator drive motors and paddles, rapid mixers and motor control cabinets (MCC). Work included new structural support columns, 500 linear feet of a concrete settled water channel, chlorine and polymer distribution systems, stainless steel and ductile iron piping systems and new sample pumps and analyzers.

Palm Ave. Pipeline Project – Citrus Heights Water District, CA. Inspector for the installation of over 5,000 linear feet 6 and 8 inch C900 and ductile iron potable water mainline. The work included trenching, shoring, jack and bore, bedding, backfill, traffic control and interfacing with the public.

Steve Miller | Electrical Inspector

ICM

Qualifications

Education:
Building Technology, Short Circuit Analysis, NEC courses, Circuit Breaker Coordination – Sierra College

Engineering Science – American River College

Certifications:
Certified Electrical Inspector, ICC No 1060878-E2 (not current)

Mr. Miller has more than 30 years of experience in the construction industry as an electrical inspector, electrician, and quality assurance officer on a wide variety of public works projects. Mr. Miller has extensive expertise in power distribution systems and controls and instrumentation systems.

Atherton Booster Pump Station and Tank Project | City of Manteca, CA| 2014 | $5.6 million
Electrical inspector for this new pump station and tank project. Inspected underground conduits, wiring, and panels to specifications and code compliance. Performed FAT for MCCs and PLCs plus startup support.

Yuba WWTP Rehabilitation | City of Yuba City, CA | 2019-2020 | $18 million
Electrical inspector for rehabilitation project including replacing all Plant PLCs, all five Plant transformers, all Plant motor control centers, new VFDs, and new fiber optic backbone. Assisted with shutdowns, startup, and inspected conduits, wiring, and panels to specifications and code.

Jenny Lind Treatment Plant Filter & Solids Handling Project, Valley Springs, CA | 2007 | $3.1 million
Electrical Inspector for the treatment plant expansion upgrading the plant capacity from 5MGD to 6 MGD. Duties consisted of inspection of conduit, wiring, panels, PLCs, and compliance with electrical code and contract.

Wastewater Quality Control Facility Digester Expansion | Manteca, CA | 2017-2019 | $20.2 million
Special Inspector (electrical) for wastewater treatment facility expansion project. Tasks inspected included motor-controls and instrumentation, building power and lighting, conduit, wiring, panels, PLCs, and compliance to the electrical code and contract documents. Performed FAT for MCCs and PLCs plus startup support.

Wastewater Quality Control Facility South Plant Expansion | City of Manteca | 2006 | $30.7 million
Electrical inspector for the electrical, instrumentation, controls, PLCs, and SCADA associated with the construction of a new influent pump station, grit tanks, sedimentation basins, aeration basins, secondary clarifiers, foul air biofilter, new electrical systems, new SCADA system, new transformers, MCCs, pumps, blowers, and a new PG&E service. Performed FAT for MCCs and PLCs plus startup support.

Wastewater Quality Control Facility UV and Filtration | Manteca, CA | 2008 | $22.7 million
Special Inspector (electrical) for wastewater treatment facility expansion project. Inspection included 17kV and 480-volt electrical distribution systems, motor-controls and instrumentation, building power and lighting, UV lighting disinfection system, conduit, wiring, panels, PLCs, and compliance to the electrical code and contract documents. Performed FAT for MCCs and PLCs plus startup support.

Wastewater Quality Control Facility Solids Handling | Manteca, CA | 2009 | $4.5 million
Special Inspector (electrical) for wastewater treatment facility expansion project. Tasks inspected included motor-controls and instrumentation, building power and lighting, conduit, wiring, panels, PLCs, and compliance to the electrical code and contract documents. Performed FAT for MCCs and PLCs plus startup support.

New Natomas and South River Pump Stations, Sac County Sanitation District| 2004 | $125 million
Special Inspector (electrical) of medium-voltage distribution for new force main pumping stations for the County of Sacramento Regional Sanitation District

Raw Water Pump Station Phase 1 | Stanislaus Regional Water Authority | 2019 | $6.6 million
Electrical inspector for all electrical on job including valve controls, power and control for pumps and other site electrical.

Bridlewood Pump Station | El Dorado Irrigation District, El Dorado Hills, CA| 2016 | $3.5 million
Electrical inspector wastewater pump station rehabilitation project.

Tara Park Pump Station | City of Manteca | 2006 | $2 million
ICM's signatory for Release for Power Notification to PG&E. Electrical inspector for the construction of a 4 MGD pumping station. Performed inspection of all electrical associated with pumps, an odor control biofilter, generator, valves, and a new PG&E service entrance.

Woodbridge Pump Station | City of Manteca | 2008 | $2.5 million
ICM's signatory for Release for Power Notification to PG&E. Electrical inspector for the construction of a 5 MGD pumping station built for future expansion to 7 MGD which included new pumps, an odor control biofilter, a generator, valves, vaults and new PG&E service.

Lake Forest Pump Station | City of Folsom, CA | 2010 | $740,000
Electrical inspector for this new pump station. Inspected underground conduits, wiring, and panels to specifications and code compliance. Performed FAT on panels.

Oak Avenue Pump Station | City of Folsom, CA | 2015 | $2.2 million
Electrical inspector for this pump station rehabilitation. Inspected underground conduits, wiring, and panels to specifications and code compliance. Performed FAT on MCCs and PLCs.

Davis WWTP Rehabilitation | City of Davis, CA | 2014 | $4.5 million
Electrical inspector for rehabilitation project including new VFDs and new influent pumps. Inspected conduits, wiring, and panels to specifications and code.

WWTP Compliance Project Phase 1B | City of Ione | 2015 | $1.6 million
Electrical Inspector for the construction of two new pump stations and new outlet structures and piping to connect ponds to the pump stations. Electrical inspector during a critical shutdown and power cutover. Provided inspection and testing for SCADA and two new aerators.

Sacramento International Airport, County of Sacramento | 2000 | $48 million
Special Inspector (electrical) on multiple contracts that included: conversion of electrical distribution system from 4KV to 12KV, installation of new fire alarm, paging system, security controls & CCTV monitoring.

Larry Mathews | QA/QC

ICM

Mr. Mathews has over 40 years of experience in the construction industry working in a variety of roles including QA/QC, lead inspector, project manager and providing materials testing and inspection services for city, county, state, and federal projects. He has experience with treatment plants, pipelines, and other structural and civil projects.

Qualifications

Education/Certifications

B.S., Business Administration, University of Phoenix

CMT 125 – Asphalt

Confined Space Safety Training

OSHA 10 Hour Construction Safety

El Dorado Irrigation District Construction Inspection On-Call
Performed QA/QC for ICM field staff on multiple CIPP and developer projects for the District.

Wastewater Quality Control Facility - Manteca, CA
QA/QC for soils, concrete, and structural testing for all phases of the wastewater plant expansion and improvements amounting to over $80 million of construction. Multiple projects including the southside aeration basins, influent pump station, secondary clarifiers, solids handling building, UV disinfection building, filter building, generator building, chemical building, splitter structure, locker room, administration/laboratory building, and maintenance building.

Tara Park Pump Station - Manteca, CA
QA/QC for soils, concrete, and structural testing for the construction of this 5 mgd wastewater lift station.

Atherton Pump Station and Tank Project - Manteca, CA
QA/QC for soils, concrete, and structural testing for the construction of this 5 mgd potable water pump station and 3.6 million gallon steel tank.

Woodbridge Pump Station - Manteca, CA
QA/QC for soils, concrete, and structural testing for the construction of this 5 mgd wastewater lift station.

Hetch Hetchy Water System Improvement Program – SFPU Commission
Project manager for Hayward Segment portion in Hayward. The underground pipeline is 48” welded steel pipe.

Gilroy Wastewater Treatment Plant – City of Gilroy, CA
Special inspector for steel and bolting, structural masonry, concrete field testing, fill and subgrade. Project included concrete basins, vaults, electrical building, and solids handling building.

Various Projects – Santa Clara Valley Water District, CA
On site inspector for installation of 48 inch to 72 inch water pipelines including bedding, backfill, and compaction control.

Wesworth Springs Road Realignment – Federal Highway Department, Ice House, CA
Quality Control Supervisor for general contractor on $10,000,000.00 plus project. Duties included conformance to QC manual, overseeing every aspect of project and adherence to plans and specifications, coordinating daily with QA supervisor, keeping daily log and submitting report at end of the day.

Jeffrey J. Inferrera, PE, RCI | Construction Manager/Inspector

ICM

Mr. Inferrera has more than 30 years of experience in the water and wastewater industry with emphasis in construction management, resident engineering, and inspection. He specializes in pump stations, wastewater and water treatment plants and pipelines

Qualifications

Registrations:
Professional Civil Engineer, California No. 62190

Registered Construction Inspector (Division 1) ACIA, No. 5832

California SWPPP QSP, QSD No. 23237

Education:
MS, Environmental Engineering, Cornell University, 1991

BS, *cum laude,* Environmental Science and Engineering, Rutgers University, 1986

Atherton Booster Pump Station and Tank Project, City of Manteca - Construction manager for the construction of a 5 MGD booster pump station, 3.6 million steel tank, and related electrical, controls, instrumentation, piping, and site civil work. Mr. Inferrera was responsible for contract administration, inspection, change orders, resolution of contractor conflicts and of technical issues.

Influent Pump Station, City of Manteca - Construction manager for the successful construction of a 20 MGD influent pump station and wastewater treatment plant expansion. The pump station consisted of a 40-foot deep structure, two 10 MGD and two 5 MGD pumps, variable frequency drives, piping, and valves. Jeff handled change orders, ran weekly meetings, monitored contractor schedule, was responsible for change orders, RFIs, CPRs, work orders, resolution of contractor conflicts, initiation of owner requested design changes, control of engineer's response to submittals and RFIs, construction cost estimates, and performed startup and SCADA prove out.

Woodbridge Pump Station, City of Manteca - Resident engineer for the construction of a 5 MGD pumping station including a 30-foot deep wet well and dry well, two 30 hp pumps, two generators, piping, valves, and vaults. Mr. Inferrera was responsible for contract administration, inspection, document control, change orders, and resolution of technical issues and performed startup and SCADA prove out.

South River and New Natomas Pumping Stations, Sacramento Regional County Sanitation District
Performed constructability review and completed construction schedule for a new 120" diameter pipeline, and two large wastewater pump stations capable of 235 MGD. Total construction value at $96 million.

Fruitridge Center Sewage Pumping Station, Power Inn Sewage Pumping Station, and Fruitridge Road Pipeline, Sacramento Regional County Sanitation District - Provided construction management and administration services for two new sewage pumping stations and gravity and force main sewer pipelines. This project included a 10 MGD pump station consisting of four 150 hp pumps in two wet wells, valves and metering vaults, odor control building, and a generator/electrical building and a 22 MGD pump station consisting of four 200 hp pumps in two wet wells, valve metering vaults, a control building, and a biofilter. The pipeline included over 32,000 ft of gravity and interceptor sewer pipeline ranging in size from 8 to 54 inches in diameter, 186 manholes, 22,000 ft of force main ranging in size from 24 to 30 inches in diameter, four railroad crossings, pipe reaming, cathodic protection system, slip-lining, water line relocations, and service connections. Mr. Inferrera was responsible for contract administration, change orders, resolution of contractor conflicts and of technical issues.

Mather Tank and Booster Pump Station Main Improvements - California-American Water Company, Sacramento, CA. Provided construction management and inspection services for the construction of a 2 MGD booster pump station feeding a new 3 MG water storage tank and 16-inch-diamater water main improvements. Pipeline components included ductile iron, steel pipe, welded connections, bolted connections, magmeter installation, coatings and disinfection.

Las Vegas Wastewater Treatment Plant – Las Vegas, NV - Resident engineer for plant expansion of city's water pollution control facility expansion from 66 to 93 MGD. This $105 million expansion program involved 13 separate construction contracts, six separate contractors, and multiple contracts. Facilities involved in this expansion include secondary clarifiers, blower building, primary sedimentation, biological nutrient removal, chlorination/dichlorination, chemical feed facilities, filtration, anaerobic digesters, pumping stations, SCADA, headworks, mechanical dewatering, odor control, and O&M building. Approximately 10,000 lineal feet of pipeline was installed ranging in size from 8 to 120 inches in diameter.

Lake Forest Pump Station, City of Folsom - Resident Engineer for the demolition of the existing pump station and the construction of a new pump station with wet well, electrical, instruments, pumps, piping, flow meter, associated equipment and site improvements. Two 15 hp submersible pumps were set at the bottom of a wet well. The pumps discharged to 8inch ductile iron force main and flowed through a magnetic flowmeter. Mr. Inferrera was responsible for contract administration, change orders, resolution of contractor conflicts and of technical issues.

SRWA Raw Water Pump Station Project, Construction Manager for a 45,000 gpm (100 cfs) raw water pump station in the levee of the Tuolumne River, east of Modesto. This work included soil freeze excavation shoring and construction of a large pump station within a levee. Site civil work in the flood plain and discharge of high pump station flows in the river made this Project environmentally sensitive.

St. Andrew's Lift Station Upgrade, El Dorado Irrigation District - Resident engineer for the $1 million upgrade of St. Andrew's Lift Station upgrade project. Construction work includes demolition of the existing electrical/mechanical dry pit, installation of five raw sewage pumps ranging from 3 to 150 hp, conversion of the dry pit to a wet pit, conversion of the wet pit to an emergency storage tank, installation of a 500 kW generator, miscellaneous valves and piping, and construction of a masonry electrical control building. Mr. Inferrera was responsible for contract administration, inspection, change orders, resolution of contractor conflicts and of technical issues.

Oak Avenue Wastewater Pump Station, City of Folsom - Performed resident engineering and inspection of the Oak Avenue Wastewater Pump Station. Station consisted of the construction vactor discharge location, piping, concrete ramp, manhole, and fencing. Mr. Inferrera was responsible for contract administration, inspection, change orders, resolution of contractor conflicts and of technical issues.

City of Manteca Project Wastewater Quality Control Facility Expansion - Manteca, CA
Construction manager and/or inspector for over $100 million of construction projects for the City of Manteca including the following:

- Inspection of Union and Louise Road Cured in Place Pipeline (CIPP) Rehabilitation Project.
- Inspection of South Trunk Sewer Project as part of the FEZ Project Phase
- New WWTP Influent Pump Station.
- Construction of aeration basins and secondary clarifiers.
- New 10 mgd tertiary filtration and UV disinfection.
- New solids handling facility including sludge mixing tank.
- North Plant Aeration Efficiency Improvements.
- Two new digesters, rehabilitation of two existing digesters, new digester control building.
- Tara Park and Woodbridge sewer lift stations.
- Atherton Tank and Pump Station Project.

Inferrera Construction Management Group, Inc.
Fee Schedule For
Tuolumne Utilities District's
Sonora Wastewater Treatment Facility

Labor Hourly Rates by Position

Principal	$225
CM/Resident Engineer	$195
Special Inspector[1]	$165
Sr. Construction Inspector[1]	$155
Construction Inspector[1,2]	$135
Administrator	$75

Expense Rates

Field Computer, monthly	$100
Field Internet/Phone, monthly	$100
Project Travel	Note 3
Other ODCs billed separately	

Administrative Fees

Expenses/OCDs	0%
Subconsultants	10%

Notes:

1. Prevailing wage category. These rates will remain in effect until December 31, 2022 except for an increase in State mandated Prevailing Wages, at which time the rates will increase the same amount as the Prevailing Wage increase.
2. Construction inspector rate is our proposed rate for Augustine Inferrera.
3. Travel will be charged the prevailing wage required IRS mileage rate over 50 miles and basic hourly rate over 50 miles or per diem. Business driving will be charged at the IRS mileage rate.
4. Minimum 4-hour onsite charge per site or off-site visits.
5. Overtime will be charged 1.5 times the hourly rate for time worked over eight hours a day and Saturdays. Sundays, Holidays, and time worked over twelve hours a day are charged at 2 times the hourly rate. Second shift work performed between 5 p.m. and 5 a.m. will be charged an additional $15 per hour.
6. Special inspector rate is for electrical, building, and structural inspection.
7. This proposal excludes hiring of an inspector apprentice which can be required by the State Department of Industrial Relations although we have not seen it done to date and have not included hours or fees for an apprentice.
8. District provides office space for one person at the construction site.
9. This Rate Schedule is valid until December 31, 2022, with the exception of Note 1. After December 31, 2022, rates subject to adjustment.

Confidentiality Requirement: This Fee Schedule has been developed exclusively for the Tuolumne Utilities District. This Rate Schedule is confidential and proprietary information and shall not be shared with persons or organizations other than employees of the Tuolumne Utilities District.

ICM

12/04/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.1

PROJECT: Resident Project Representative Services for the Sonora Wastewater Treatment Facility

TO: All Planholders

FROM: Tuolumne Utilities District

PROPOSAL DATE: Unchanged

Notice is hereby given to prospective proposers that the Proposal Documents for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility have been modified as hereinafter set forth. This Addendum No.1 shall form a part of the Proposal Documents and takes precedence over the original Proposal Documents.

The following revisions, additions, replacements, clarifications, or deletions shall be made to the Contract Documents:

REPLACEMENT: Exhibits C & D
The attached Exhibits C & D dated 12/04/2020 shall replace Exhibits C & D of the original proposal documents.

CLARIFICATION: Exhibit C, Federal Requirements
Compliance with all Federal Requirements listed in Exhibit C must be adhered to in order to be considered an eligible proposer.

Proposers shall acknowledge receipt of Addendum No.1 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer

I acknowledge receipt of Addendum No.1.

Signed_____
Proposer

12/30/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.2

PROJECT:	Resident Project Representative Services for the Sonora Wastewater Treatment Facility
TO:	All Planholders
FROM:	Tuolumne Utilities District
PROPOSAL DATE:	Unchanged

Notice is hereby given to prospective proposers that the Proposal Documents for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility have been modified as hereinafter set forth. This Addendum No.2 shall form a part of the Proposal Documents and takes precedence over the original Proposal Documents.

The following revisions, additions, replacements, clarifications, or deletions shall be made to the Contract Documents:

CLARIFICATION: Project Scope

The Resident Project Representative (RPR) shall act as an Inspector for the District and a liaison between the Engineer and the Contractor. The District will be providing a Construction Manager for the project that will be responsible for record keeping, processing pay requests, communications, etc. The RPR *is not* a Construction Manager nor shall he/she be responsible for tasks typically conducted by a Construction Manager. Any required special inspections will be coordinated by the project Engineer and are not the responsibility of the RPR. The RPR shall be present at all special inspections.

It is the District's intention to hire a firm which uses the same person for the Inspector throughout the duration of the project. The Inspector may utilize office support staff for some documentation; however, all daily logs shall be record by himself/herself. Please read Exhibit D-Services of the Resident Project Representative in the Request for Proposal very carefully.

Attached to this addendum is a plan view of the overall project site, the hydraulic profile of the project and a process flow diagram to help proposers better understand the breadth of the project.

Proposers shall acknowledge receipt of Addendum No.2 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer
Tuolumne Utilities District

I acknowledge receipt of Addendum No.2.

Signed_____
Proposer Signature

ICM DAILY FIELD REPORT

Project Name:	**Delta Diablo Pittsburg Pump Station**	Day/Date	**Wednesday 11/25/2020**
Project Owner:	Delta Diablo	Contractor: W.M. Lyles	Inspector: Augustine Inferrera
Weather:	Sunny, Wind 10-15mph	Temp Hi/Lo:	62/47°F

Planned Work for Today: SOR 72 will proceed as follows:
2:00am
- **District** begins diversion, LOTO SG-2405, pumps down wetwell, LOTO Pumps 3 & 4, LOTO Ferrous, LOTO Odor Control Drain, LOTO north wetwell chopper pump, LOTO sanitary drain
- **National** begins touchups in south wetwell (scaffolding feet, other)

2:30am (or when LOTO is complete)
- **WM Lyles** cleans wetwell and pumps out remaining water

3:00am-5:00am
- **WM Lyles** removes the three bulkheads and chopper pump and **National** preps surface and touches up coating as they become available.
- **WM Lyles** completes sanitary drain piping. Can take longer if needed.
- **WM Lyles** reroutes ferrous piping to final location. Can take longer if needed.
- **WM Lyles** reroutes odor control drain to final location Can take longer if needed..

5:00am – All coatings to be completed by 5:00am to allow full 5 hour cure time.
5:00-6:00am
- **WM Lyles** threads and repairs pump discharge air vent piping in north wetwell.

6:00am – 7:00am
- **WM Lyles** removes plug in 30" line.

7:00-7:30
- **ICM inspects** SG-2401 & 2405 for leaks.

7:30-10:00am
- Coating completes curing process.
- **WM Lyles** positions chopper pumps and **District** confirms proper orientation.

10:00am – ???
- **District** restores station to original operation

Grading continues at 7 a.m.

Actual Work for Today (Plan and Spec#) and Observations
I arrived at 2:00 a.m.
W. M. Lyles (WML) arrived at 1:30 a.m.
National arrived at 2:00 a.m.
Con J Franke (CJF) arrived at 7:00 a.m.

WET WELL

SOR 72

2:00 a.m. Mike L. (WML) with crew prepping wet well for shut down
2:08 a.m. Joe (DD) arrive, LOTO SG, pump down wet well, LOTO pumps, leaves
2:15 a.m. WML puts sump pumps into wet well channel, Ricardo removing bulkhead in upper channel, Jose removing bulkhead on top of channel wall

National grinding locations where touch-up is needed: spots in south channel where scaffolding feet were located, top of channel wall where bulkhead was located, in opening between north and south channels where bulkhead was located, in upper channel where bulkhead was located, under chopper pump
2:45 a.m. bulkhead on channel wall removed
3:00 a.m. Joe LOTO Ferrous, odor control, and sanitary drain
Mike removing bulkhead between north and south channels
4:30 a.m. National grinding at upper channel
5:00 a.m. Mike said they are abandoning the chopper pump, there is too much water and insufficient equipment to pump it out at a fast enough rate
Ricardo is fixing the threaded drain pipe just above the north channel
National is vacuuming dust from south channel
I checked environmental conditions: humidity is 70% (max 85%), temperature is ~53°F (min 40°F)
5:30 a.m. National using acetone to wipe down areas to be coated
5:50 a.m. National starting to touch up at opening between N and S channels
Jim said he is shooting for around 120 mils DFT
The coating being used is Raven 405
6:30 a.m. coating in south channel and opening between channels complete
7:15 a.m. coating in upper channel complete
7:45 a.m. coating on top of channel wall complete
9:00 a.m. I touched the coating in the upper channel for dryness, it is tacky
10:00 a.m. Mike deflated and pulled the plug in the manhole, SG-2401 was inspected for leaks, leaks were addressed by tightening the gasket
10:20 a.m. diverted flows back to wet well
10:30 a.m. SG-2401 won't raise electronically, SG was exercised

DRAIN PIPING/~~FERROUS CHEMICAL LINE~~
6:00 a.m. – 7:45 a.m. WML removed the temporary 4 inch ABS draining the odor control into the north channel and used those pieces to complete the sanitary drain and odor control drain
Waiting for diversion to end before completing sanitary drain (pipe drips)
9:50 a.m. installed remainder of sanitary drain, still needs to be plumbed

SITE CIVIL

7:00 a.m. Tony, Santos (WML) snapping lines for grade around pump building
8:00 a.m. grading around manholes west of pump building to accommodate low elevation slabs
9:00 a.m. raising G5 box at MTS
9:40 a.m. moving eyewash to be able to dig down for new grade plan by bioscrub
9:55 a.m. saw cutting joints into valley gutter
Tony dug out 12 inches below where eyewash station will be replaced at, over-dug in order to backfill with crushed rock or sand to help level the eyewash
12:30 p.m. labor crew left except Ricardo, Tony, Santos
Tony digging out (E) potable water line for future tie-in, Santos cleaning up crushed rock, cutting back filter fabric
1:10 p.m. Ricardo left
2:00 p.m. Tony digging back around cathodic protection to expose cathodic protection G5 box

SOR 90 WATER LINE

No Work Today

ELECTRICAL

WET WELL

8:00 a.m. Jerry (CJF) continuing work on conduit in wet well for transducers/float switches
8:30 a.m. laying out Ocal and unistruts around grating by south grinder
Demoed unused conduit by SGs
10:00 a.m. Jerry installing Ocal and unistruts into floor

AI left at 2:20 p.m.
National left at 8:00 a.m.
WML left at 3:30 p.m.
CJF left at 10:30 a.m.

Field Remarks/Conversation: Insufficient time to coat under chopper pump, Joe (DD), Jeff (ICM), Sean (DD) recognize that this will not significantly impact the integrity of the wet well negatively.
Discussed grading plan around scrubber pad due to elevation conflicts for AC paving, Sean (DD), Jeff (ICM), Mike (WML) determined to keep modified grading plan so as not to cover filter for bioscrub and stanchion for disconnect switch but to lower the eyewash pad several inches. By the anode that was uncovered by Tony, Sean said raising the box with a simple pipe/G5 box to match new grade is sufficient. Need to raise conduit vent located adjacent to anode
It was pointed out that some concrete slurry was not coated by one slide gate. Chris (WML) talked to Jim (National) and since there is Raven coating underneath the slurry, they see no need to recoat. Slurry will eventually corrode away but this should not be an issue.
For SG-2401 Mike (WML) suggested to Joe (DD) that Joe can manually/electronically raise and lower the SG to allow grease from the sewage to get onto the tracks. Joe told Mike he can do what he proposed. After exercising the SG 3 times, the SG can raise electronically after being manually lifted about 1%, perhaps from 0% if exercised a bit more

Materials Delivered: None

Materials Installed: Class 2 aggregate base, 4 inch ABS, Raven 405 coating, 1 inch Ocal conduit, unistruts

Special Inspections and Testing (Name, company, in/out times, test procedures, test results):

See WET WELL SOR 72 for coating inspection: I felt the roughness of where National was grinding, it was too smooth so National scuffed up the area to match a CSP2/3 roughness. Manufacturer for the coating (Raven 405) requires CSP3-5 roughness, however, due to the locations of the touch up and the limited time to coat, the roughness achieved is sufficient. Acetone was applied to touch up areas
Raven 405, two part epoxy, expiration dates:
I checked wet film thickness of the touch up, the minimum is 80 mils DFT per manufacturer:
South channel, scaffold areas: 70 mils
Inlet between N and S channels: 60-70 mils
Top of channel: 80 mils
Upper channel: 80 mils
Areas under 80 mils are in locations that will not experience serious corrosion and given the time constraints of this shutdown, it will not be possible to increase the thickness of the coating.

Open Item List:
Plumb sanitary drain

Visitors: None

Hrs*	**Labor: Name, position, company**	Op Hrs*	**Equipment: ID#, make, model, type**

0	Tony Mueller (Project Manager) WML		
0	Chris Toler (Field Engineer) WML		
0	Mikhail Maltsev (Project Engineer) WML		
0	Mike Lister (Laborer Forman) WML	0	Silverado (Mike Lister)
0	Juan Barrientos (Laborer) WML		
8	Ricardo Gonzalez (Laborer) WML	8	F450 (Ricardo Gonzalez)
0	Roberto Lua (Laborer, Apprentice) WML	0	F350 (Roberto Lua)
0	Rogelio Espinosa (Carpenter) WML		
0	Arturro Navarro (Laborer) WML		
0	Enrique Hernandez (Carpenter Foreman) WML	0	F350 (Enrique Hernandez)
0	German Lopez (Carpenter) WML	1	JLG forklift
0	Brian Dominique (Carpenter) WML	0	MQ GDP-5H Generator
0	Efrain Ochoa (Carpenter) WML	8	Deere 250L EP
0	Francisco Anzaldo (Carpenter) WML	8	Wacker Neuson jumping jack
0	Francisco Barrientos, Sr. (Carpenter) WML	8	Hamm H-5i
0	Francisco Barrientos, Jr. (Carpenter) WML	1	Bobcat E26 excavator
0	Manny Martinez (Carpenter) WML		
10	Tony Guerrero (Operator) WML		
0	Mike Morang (Operator) WML		
10	Santos Manzanares (Laborer) WML		
8	Thomas Guzman (Laborer) WML		
0	Jose (Laborer) WML		
0	Efrain Delgado (Mason) WML		
0	Artemis Reza (Mason) WML		
			Portajohn, onsite, (1)
5	Carl Jenks (Electrical Foreman) CJF	5	Silverado (Carl Jenks)
8	Jerry Taylor (Electrical Journeyman) CJF		
0	Robert Holter (Electrical Journeyman) CJF		
0	Leonel Cruz (Electrical Journeyman) CJF		
0	Marcos Paez (Electrical Apprentice) CJF		
0	Dominic Sparacino (Electrical Apprentice) CJF		
0	Nick Fisher (Electrical Apprentice) CJF		
8	James Reed (Painter) NC		
0	Randy Barksdale (Painter) NC		
8	George (Painter) NC		
0	Kelley Cannon (Electrical Technician) PC		
0	Two HVAC, JL	0	F450 Work truck (JL)

*Hours are estimates only
ICM Inspector Name and Signature: Augustine Inferrera *Augustine Inferrera*

ICM DAILY FIELD REPORT

Project Name:	**City of Yuba City WWTF Improvements, Project 17-09**		Day/Date	**Thursday 8/27/2020**	
Project Owner:	City of Yuba City	Contractor: Western Water (WW)		Inspector: Augustine Inferrera	
Weather:	Clear, Wind SSE 2-4 mph		Temp Hi/Lo:		93/64°F

Planned Work for Today:

Met with Adam (WW) at Chlorine Building at 7:00 am: WW will pull 15kv from XFMR-MCB to EV-1 and splice with existing 12kv, backfill around EV-1 plus site civil

Actual Work for Today (Plan and Spec#) and Observations

WW arrived at 6:00 a.m.

DEWATERING BUILDING

Canopy:

Builtware arrived at 6:00 a.m.
At 7:00 a.m. (2) from Builtware were installing trim to cover gaps between field soffit panels
9:00 a.m. continuing trim
10:00 a.m. started laying out first row of second half of canopy
11:40 a.m. WW determined that the westmost motor on top the canopy is leaking oil, they will remove it with Tadano crane for repair
12:15 p.m. WW determined they cannot remove the motor today, will remove tomorrow
1:00 p.m. WW decided to remove motor, successfully removed and crane returned to contractor lay-down area around 1:20 p.m.
Builtware installed field soffit panels about halfway up one bay
(2) WW electricians wiring up light pole south of canopy
2:00 p.m. Builtware still installing soffit panels in first bay
Electricians pulling string through conduit below light pole
Builtware left at 2:30 p.m.

DIGESTERS

Digester 1 (east):

8:00 a.m. (2) from FD Thomas working on coating east-facing 12 inch pipe. They cleaned the pipe exterior with a cleaning solution before epoxy coating
9:00 a.m. started epoxy coating with Carboline Carboguard 890, Part A expires May 2022, Part B expires November 2020
(1) from WW helping painters with backhoe
10:30 a.m. I checked the wet film thickness of the epoxy coat being applied: average 6-7 mils, but final thickness to be determined using a dry film thickness gauge. FDT will apply one more coat tomorrow.
12:20 p.m. finished coating 12 inch east-facing pipe, left FCA joints uncoated (blue), will now start coating 12 inch overflow pipe
1:20 p.m. cleaned pipe exterior and are now applying epoxy coat
2:00 p.m. just about done epoxy coat on overflow, left FCA joints uncoated (blue)

Digester 2 (west):

No Work Today

SITE CIVIL RESTORATION

8:50 a.m. civil crew working on replacing sidewalk near CB expansion tank (south water well), they demoed the broken sidewalk and installed concrete forms.
11:50 a.m. used vibratory plate to compact existing sand, drilled holes into existing cement for epoxied-in dowels, using Hilti 500 epoxy (exp. 8/2020), installed #4 12 inch dowels and attached welded wire fabric that spans area of sidewalk. Installed expansion joint between sidewalk and expansion tank pad
1:00 p.m. demoed broken corner of expansion tank pad and formed up for repair
2:00 p.m. epoxied-in two dowels in corner restoration of tank pad

SPECIAL INSPECTION - Electrical/Instrumentation/Controls/PLC/SCADA Work Today (Plan or Spec #):

CHLORINE CONTACT BASIN (CCB) / CHLORINE BUILDING

SOR 56 (8/24/20 7:00am – 9/3/20 4:00am):

WW working on the following:
7:00 a.m. civil crew (4) working on backfilling ductbank north of EV-1 using Cat excavator with sheepfoot roller attachment, dump truck, jumping jack and pneumatic hand tamper, backfill comprised of water conditioned native material
(10) from WW pulled 3 15kv cables from XFMR-MCB to vault EV-1, I visually inspected wires as WW pulled them through the conduit and did not notice any obvious defects, (3) are working on splicing ends for terminating in XFMR, Adam is working on in-line splices at EV-1 between 12kv and 15kv cables
8:50 a.m. (3) pulled one set of #400 (3 cables plus ground) through pull box above PTB into CB electrical room
10:00 a.m. electricians finished preparing ends of 15kv cables to land in XFMR-MCB, Adam and Sonny still working on in-line splicing, (3) pulled two more sets of #400 (each 3 cables plus ground) through pull box over PTB into CB electrical room
12:00 p.m. electricians are grounding the wires in vault EV-1 and PB-MCB, Anthony is tightening the landings in the temp gear
1:00 p.m. will start landing the 3 sets of #400 pulled this morning into PTB and existing in CB electrical room
2:00 p.m. landed the 3 sets of #400 and ground into PTB, Anthony working on landing 1 set of #400 into VFD EP-850

At 2:30pm, WW left site.
AI left at 3:00 p.m.

Field Remarks/Conversation: None

Materials Delivered: None

Materials Installed: 3 strands of 15kv wire, 3 in-line splice kits and 3 15kv elbow boots, #4 rebar, welded wire fabric, Hilti 500 epoxy, field soffit panels, soffit trim, #400 cable and 1/0 grounds, Carboline epoxy coating
Special Inspections and Testing (Name, company, in/out times, test procedures, test results): Electrical inspection, see breakdown above.
Open Item List: See latest updated Open Items List on File for additional outstanding corrective work items
Visitors: None For actual Labor and Equipment please see lead inspector daily report.
ICM Inspector Name and Signature: Augustine Inferrera *Augustine Inferrera*

Blackwater Engineering Proposal

RESIDENT PROJECT REPRESENTATIVE SERVICES FOR THE SONORA WASTEWATER TREATMENT FACILITY

January 8, 2021

Submitted by:

BLACKWATER
CONSULTING ENGINEERS, INC.

BLACKWATER
CONSULTING ENGINEERS, INC.

January 8, 2021

Jennifer Batt - Associate Engineer
Tuolumne Utilities District
18885 Nugget Blvd.
Sonora, CA 95370

Re: **RFP - Resident Project Representative Services for the Sonora Wastewater Treatment Facility**

Dear Ms. Batt,

Black Water Consulting Engineers, Inc. (Black Water) sincerely appreciates the opportunity to submit our proposal in response to the Tuolumne Utilities District (District) Request for Proposal (RFP) for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility Project (Project). We have responded to each point identified in the RFP to demonstrate our interest and ability to work with District staff. You will see that we offer the experience and resources to provide the highest level of project representative services to the District. Additionally, we believe our firm offers the following benefits that qualify us as a perfect fit for this Project.

1. The project representative we have chosen, Larry Kram, is local to the area and has a history of successfully completing projects similar to the Sonora Wastewater Treatment Facility project. He is able to efficiently organize, communicate, develop, and produce the quality of work that our clients have come to expect.
2. Mr. Kram has over 14 years of experience working directly with Tuolumne Utilities District. As an engineering assistant during project construction, he provided periodic inspection of the contractors' work for conformance with the project plans and specifications, organized construction progress meetings with the contractor and District engineer, and reported on construction schedules and budgets for the District.
3. We have recently provided similar services to Jamestown Sanitary District on their Wastewater Treatment Facility Improvements Project and on various City of Patterson improvement projects. We are familiar with the process and expectations for a successful project.

Again, we appreciate the invitation to submit to you this proposal and express our interest working with you on this important project. We consider this an opportunity for our firm to continue to provide the District with our reliable and quality service, and hope that your careful review and consideration of our proposal will assist you with selecting us for the contemplated work. Should you have any questions or require additional information, please do not hesitate to contact me by email at jeff@blackwater-eng.com or by phone at 209-322-1817.

Sincerely,

Jeff Black, P.E.
President

12/04/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.1

PROJECT: Resident Project Representative Services for the Sonora Wastewater Treatment Facility

TO: All Planholders

FROM: Tuolumne Utilities District

PROPOSAL DATE: Unchanged

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CLARIFICATION: Exhibit C, Federal Requirements
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Proposers shall acknowledge receipt of Addendum No.1 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer

I acknowledge receipt of Addendum No.1.

Signed _____
Proposer

12/30/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.2

PROJECT:	Resident Project Representative Services for the Sonora Wastewater Treatment Facility
TO:	All Planholders
FROM:	Tuolumne Utilities District
PROPOSAL DATE:	Unchanged

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It is the District's intention to hire a firm which uses the same person for the Inspector throughout the duration of the project. The Inspector may utilize office support staff for some documentation; however, all daily logs shall be record by himself/herself. Please read Exhibit D-Services of the Resident Project Representative in the Request for Proposal very carefully.

Attached to this addendum is a plan view of the overall project site, the hydraulic profile of the project and a process flow diagram to help proposers better understand the breadth of the project.

Proposers shall acknowledge receipt of Addendum No.2 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer
Tuolumne Utilities District

I acknowledge receipt of Addendum No.2.

Signed _____
Proposer Signature

ABOUT THE FIRM
AND EXPERIENCE

ABOUT BLACK WATER CONSULTING ENGINEERS

Black Water Consulting Engineers (Black Water), located in Modesto, California, was formed in 2012 and delivers a consultant team that is highly qualified and experienced in the specialty work that is required for understanding and designing water and wastewater systems. Our firm is staffed with experts in the fields of planning and design of water supply, treatment, and distribution systems; wastewater collection, conveyance, and treatment works; storm water analysis and drainage facilities and construction management. We continually participate in the evaluation, design, and review of water and wastewater infrastructure projects and technologies in order to maintain a sound knowledge base of current design standards and construction methods. A more detailed list of our firm's capabilities and services is provided in the following table.

WATER	WASTEWATER / RECYCLED WATER	CONSTRUCTION MANAGEMENT
• Hydraulic Modeling of Distribution Systems • Water System Evaluation • Demand Analysis • Funding Assistance • Water Treatment Storage • Pipelines • Pumping & Booster Station Design • Well Design • Permitting • Technical Report Preparation • Water Master Planning • Financing Evaluations • Regulatory Compliance • Construction Management	• Collection System Modeling • Sewer Collection System Evaluation & Design • Sewer Master Planning & Asset Management • Sanitary Sewer Management Plans • Sewer & Storm System Rate Studies • Funding Assistance • Wastewater Treatment & Process Design • Regulatory Compliance & Permitting • Pump Station & Force Main Design • Corrosion & Odor Control • Pipeline Rehabilitation • Trenchless Construction • Wastewater Recycling & Reuse • Construction Management	• Construction Inspection & Observation • Contract Administration • Resource Management & Allocation • Claims Mitigation / Administration • Construction Meeting Facilitation • Submittal/RFI Review & Processing • Safety Oversight • EEO & Labor Compliance Adherence • Construction Reporting • Local & State Specifications Compliance Adherence • Records Management • QA/QC Administration • Material Testing Coordination & Observation • Change Order Review & Processing • Progress Payment Preparation • Schedule Monitoring • Project Closeout

→ *Whether responding to existing challenges, evaluating opportunities to improve performance, or seeking to reduce future liabilities, our clients benefit from our unique blend of technical and scientific skills, strategic insight, and practical experience.*

ASSIGNED RESIDENT PROJECT REPRESENTATIVE

Larry Kram has over 40 years of experience in utility management, construction, and related fields. His background includes being a land title examiner, an ink and mylar draftsman and then graduating to computer aided drafting. He has worked for various public water and sewer agencies as an engineering assistant doing plan checks and field investigation and research. He works as a field inspector on various projects and is well versed in working with clients, contractors, construction management and keeping projects on track and on time. His roles include construction inspection, utility planning, constructability review, database development for asset management, and utility right-of-way acquisition.

SIMILAR PROJECT EXPERIENCE

In recent years, Black Water has provided similar services for cities and special service districts. Our representative experience in project representative services for various water and wastewater projects qualify us as an excellent fit for this endeavor. Projects demonstrating our previous experience are provided below.

Wastewater Treatment Facilities Improvements - CWSRF, Jamestown Sanitary District

Black Water prepared a project engineering report (project report) evaluating the existing wastewater treatment facilities and determined future improvements for reliable operation and compliance with California Regional Water Quality Control Board regulations. Funding for the planning and construction project was secured through the State Water Resources Control Board (State Board) Clean Water State Revolving Fund (CWSRF). Black Water completed the final design plans, specifications, and bid documents for the recommended improvements discussed in the project report and provided engineering services during construction and construction administration support. Modifications to the existing WWTP site include the addition of grit removal facilities, expansion of the emergency storage facilities, and a pump station that is capable of conveying primary treated effluent to the JSD Quartz site. Improvements to the JSD Quartz site include secondary treatment facilities, tertiary treatment and disinfection facilities, sludge treatment facilities, composting facilities, and an administration office building.

→ *Construction Duration*
- Jun 2019 - Ongoing

→ *Project Value*
- $15,000,000

→ *Owner/Reference*
- Patti Ingalls
  District Manager
  jsdistrict@mlode.com
  209.984.5177

Water Main Consolidation Improvements Project - DWSRF, Keyes Community Services District

Black Water secured the construction funding for Keyes Community Services District (CSD) through the SWRCB DWSRF program for water pipeline extensions to consolidate out of service boundary mobile home parks with non-compliant water systems with the Keyes CSD water system. The project included the design of approximately 9,200 linear feet of 10-inch diameter water pipeline and 4,500 linear feet of 12-inch diameter pipeline. Black Water provided all-inclusive engineering services for planning, design, engineering services during construction, and construction management for the project.

→ *Construction Duration*
- Nov 2018 - Jun 2019

→ *Project Value*
- $2,600,000

→ *Owner/Reference*
- Ernie Garza
  General Manager
  egarza@keyescsd.org
  209.668.8341

Sewer Line Rehabilitation / Replacement Project (CDBG# 12-CDBG-8421), Jamestown Sanitary District

Phase 1 of this project consisted of the replacement and rehabilitation of 7,500 LF of 6 and 8-inch sanitary sewers located in public right-of-way and easements within private property. Phase 2 consisted of the replacement and rehabilitation of approximately 5,500 LF of 6 and 8-inch sanitary sewers located in the public ROW and within sewer easements on private property. Black Water provided construction management, inspection services, and public outreach services. This included daily efforts and coordination with residents and customers affected by the project construction impacts.

→ *Construction Duration*
- Jul 2013 - Mar 2014

→ *Project Value*
- $2,000,000

→ *Owner/Reference*
- Patti Ingalls
  District Manager
  jsdistrict@mlode.com
  209.984.5177

Non-Potable Well Engineering Services During Construction, City of Patterson

Black Water is providing engineering services during construction for the non-potable well and well site infrastructure construction phases. These services include monitoring the progress and performance of the construction contractors for conformance with contract documents.

→ *Construction Duration*
- Sep 2017 - Jul 2018

→ *Project Value*
- $808,000

→ *Owner/Reference*
- Fernando Ulloa
  City Engineer
  fulloa@ci.patterson.ca.us
  209.895.8073

Roundabout Inspections – Del Puerto Ave. and North Salado Ave., City of Patterson

Black Water provided inspection services and construction administration support for the rehabilitation of two existing roundabouts for the City of Patterson. The Del Puerto Avenue and North Salado Avenue roundabouts were in poor condition and required upgrades to enhance traffic and pedestrian safety. The project included demolition and reconstruction of the roundabouts, as well as construction of landscaped medians and ADA curb ramps at both project sites. Black Water's scope of services included, but was not limited to, daily inspection, public outreach and coordination with nearby schools, safety and traffic control oversight, construction reporting, labor compliance support, and schedule and cost management.

→ *Construction Duration*
- Mar 2013 - Jul 2013

→ *Project Value*
- $350,000

→ *Owner/Reference*
- Mike Willett
  Director of Public Works
  mwillett@ci.patterson.ca.us
  209.895.8065

First and Walnut Traffic Light Installation and Intersection Improvements, City of Patterson

Black Water provided inspection services and construction administration support for the City of Patterson's First Street and Walnut Avenue Signalization Project. The project consisted of the addition of traffic signals and intersection improvements to widen First Street. Intersection improvements included storm drain improvements, curb and gutter installation, paving, and ADA curb ramp construction. Black Water's scope of services included, but was not limited to, daily inspection, safety and traffic control oversight, construction reporting, labor compliance support, materials testing, and schedule and cost management.

→ *Construction Duration*
- Apr 2013 - Jul 2013

→ *Project Value*
- $400,000

→ *Owner/Reference*
- Mike Willett
  Director of Public Works
  mwillett@ci.patterson.ca.us
  209.895.8065

BLACKWATER
CONSULTING ENGINEERS, INC.

Larry Kram
INSPECTOR

years with Black Water

7

years with others

37

Larry Kram has over 40 years of experience in utility management, construction, and related fields. His background includes being a land title examiner, an ink and mylar draftsman and then graduating to computer aided drafting. He has worked for various public water and sewer agencies as an engineering assistant doing plan checks and field investigation and research. He works as a field inspector on various projects and is well versed in working with clients, contractors, construction management and keeping projects on track and on time. His roles include construction inspection, utility planning, constructability review, database development for asset management, and utility right-of-way acquisition.

Project Experience

Inspection / ROW Agent

CWSRF Wastewater Treatment Facilities Improvements, Jamestown Sanitary District - Jamestown, CA. Construction Inspector. Black Water provided final design and currently construction management services for the modifications to the existing wastewater treatment plant site and improvements at the JSD Quartz site.

Effluent Force Main Replacement, Jamestown Sanitary District - Tuolumne County, CA. ROW Agent. Black Water was tasked to analyze and address easement acquisition and pipeline alignment for a new force main that will run between the existing WWTF and the future WWTF at the Quartz Site. Responsible for researching the outfall line.

DWSRF Water Main Consolidation Improvements Project, Keyes Community Services District - Keyes, CA. Construction Inspector. The project consists of the design of approximately 13,000 ft of 8-inch,10-inch and 12-inch water distribution main to extend service to out of service boundary mobile home parks with non-compliant water systems with the Keyes CSD water system. The project included abandonment of 4 existing water and two (2) bore and jack crossings at irrigation facilities. Provided construction management and inspection services for construction of the project.

DWSRF Mobile Home Park Water Distribution System Improvements, Santa Nella County Water District - Santa Nella, CA. ROW Agent. The project consists of the design of approximately 12,000 ft of existing 4-inch through 8-inch water main to replace existing distribution system and install 350 new service laterals with remote-read water meters to existing residences and businesses.

Non-Potable Well Engineering Services During Construction, City of Patterson - CA. Project Inspector. Provided engineering services during construction for the non-potable well and well site infrastructure construction phases. These services include monitoring the progress and performance of the construction contractors for conformance with contract documents.

2017 Water Treatment Plant Upgrades, City of Angels - Angels Camp, CA. ROW Agent. This project consists of improvements to the filtration, disinfection, backwash, and other processes at the WTP. Responsibilities include identifying and preparing easements for road and waterline.

CWSRF Wastewater Treatment Facilities Upgrade, Murphys Sanitary District - Murphys, CA. ROW Agent. This project consisted of the preliminary and final design improvements to the WWTP to improve process efficiency, capacity and effluent quality. Improvements include new influent pumps, 1 mile of sewer force main replacement, new headworks screening, sub-surface aeration system, sludge removal, and increasing storage capacity.

2016-2017 CIP, Jamestown Sanitary District - Jamestown, CA. Project Inspector/ROW Agent. This project involves the replacement of approximately 900 lineal feet of sewer piping. Provided project inspection services and right-of-way assistance.

Foothill Trunk Sewer Replacement Project, South Placer Municipal Utility District - Rocklin, CA. ROW Agent. This project consisted of the replacement of two major sewer lines totaling approximately 2,275-LF of 12-inch sanitary sewer with 2,672-LF of new 24-inch gravity pipe. Black Water provided property rights procurement services for over 50 easements. Responsible for securing and reviewing preliminary title reports for each impacted parcel and coordinating with the right-of-way engineering team to review legal descriptions and plat maps for each right-of-way interest required. Coordinated with property owners and retained all records of meetings, paper work, and easements.

CWSRF Wastewater Collection and Treatment Systems Evaluation and Planning Improvements, Westley Community Services District - Westley, CA. ROW Agent. This project consisted of the evaluation and planning of improvements to the District's wastewater collection and treatment systems. Black Water prepared and submitted the CWSRF planning application for Westley CSD that included preparation of the general, technical, environmental, and financial packages for evaluation of the wastewater treatment plant. Contacted property owners, and provided right-of-way assistance and agency coordination.

DWSRF Curtis Creek Elementary School Water System Consolidation Project, Curtis Creek Elementary School District - Sonora, CA. Project Inspector. Black Water secured planning funding through the SWRCB DWSRF program for the consolidation of Curtis Creek Elementary School's water system with the Tuolumne Utilities District (TUD) water system to address system deficiencies that include inadequate source and storage capacity and no emergency fire protection. Performed field inspection of tank and proposed route.

Jennings Road Wastewater Treatment Plant Follow-up Monitoring Well Investigation, City of Modesto - CA. Field Inspector. Assisted the City with surveying and video inspecting 21 groundwater monitoring wells located at the treatment plant.

Ebbetts Pass Reach 3A Water Pipeline Replacement Project, Calaveras County Water District - CA. Right-of-Way Agent. Contacted private owners and business owners to acquire easements to relocate portions of a new waterline. Responsible for the title reports on a number of parcels.

First and Walnut Traffic Light Installation and Intersection Improvements, City of Patterson - CA. Construction Inspector. The project consisted of adding traffic signals at this intersection. The project included widening of First Street in two locations, removing and relocating an existing storm drain inlet, installation of curb and gutters at two corners of the project, and paving the widened sections on First Street and a portion of Walnut Avenue.

2014 Ward and American Eagle / Hartley and Walnut Intersection Projects, City of Patterson - CA. Project Inspector. This project consisted of the replacement of two intersections comprising signalization, water, sewer and storm drain utilities, roadway construction, and pavement and concrete placement. Prepared daily inspection reports, weekly statements of working days, and other forms as required for the federally funded projects. Reviewed contractors work for conformance with the engineering plans and directed the coordination efforts between the contractors, engineers, and City for design revisions, materials tracking, pay requests, and project closeout documents, including record drawings.

Roundabout Inspections - Del Puerto Ave. and North Salado Ave., City of Patterson - CA. Construction Inspector. The City of Patterson received grant funding for the rehabilitation of two existing roundabouts within the city. The project also included the addition of splitter islands at both sites to enhance traffic and pedestrian safety at the two locations. Prepared daily reports, tracked materials deliveries, construction change orders, and submittal of project closeout documents, including record drawings to City staff.

CWSRF Wastewater Treatment Planning Evaluation, Jamestown Sanitary District - Jamestown, CA. Project Inspector/Property Agent. This project consisted of the evaluation of the existing WWTP and determining future improvements. Responsibilities included project inspection services, public outreach, and coordinated with appraisal agents and property owners.

2013 Sewer Line Rehabilitation/Replacement Project CDBG #12-CDBG-8421, Jamestown Sanitary District - Jamestown, CA. Construction Inspector. Provided construction inspection and management for rehabilitation and replacement of approximately 7,400 LF of 6 to 8-inch sanitary sewer pipe. Coordinated the daily efforts of environmental, cultural resources, arborist, Cal-Trans, Tuolumne County, and agency staff with the pipeline contractor to ensure the requirement of the project funding and specifications were complied with. Acted as the JSD liaison with residents and customers affected by the project. Scheduled and directed weekly progress meetings, prepared daily reports, and maintained the project punch list.

2011-2012 Amazon Fulfillment Center, City of Patterson – CA. Construction Inspector. Provided construction inspection of all on-site and off-site utility and roadway improvements for the construction of the 1-million square foot warehouse fulfillment center. Inspection tasks included confirming line and grade of water, sewer and storm drain pipelines, installation and maintenance of BMP's for runoff control, roadway improvements, and paving and concrete work within the public right-of-way. Provided daily reports to the City of Patterson. Coordinated with City staff, construction foremen and engineering staff to insure proper installation of facilities.

2004–2011 Jamestown Sanitary District Engineering Assistant - Jamestown, CA. Engineering Assistant. Assisted the JSD with planning, right of way acquisition, permitting, bidding, and construction inspection, for various capital improvement projects throughout this period. He also developed the asset management database for compliance with SSMP requirements and to assist JSD staff with a better way of tracking operations and maintenance work on the sewer collection system.

1990–2004 Tuolumne Utilities District Engineering Assistant - Tuolumne, CA. Engineering Assistant. Mr. Kram assisted engineering staff on the development and right of way acquisition for various water and sewer pipeline projects. During project construction, he provided periodic inspection of the contractors work for conformance the project plans and specifications, organized construction progress meetings with the contractor and District engineer, and reported on construction schedules and budgets for the District.

GIS Development

Wastewater Master Plan, City of Oakdale - CA. GIS. Assisted with the City of Oakdale's CIP rate study and prepared a wastewater master plan that evaluated the existing wastewater collection, treatment, and disposal facilities. Reviewed GIS files and exhibits of collection system network for consistency with actual field conditions.

Water & Sewer Company Transfers

Mr. Kram has extensive experience in water and sewer company transfers. He performed all field inspections of facilities, wells, tank sites, treatment plant site, and any other property owned by the water company. Mr. Kram worked with surveyors to determine corners of properties, making sure facilities were located within the correct property. Responsibilities also included the creation of documents pertaining to the transfer of water system, agreements, transfer documents for transferring of easements, grant deeds and title reports for real property, and lists of any equipment and vehicles being transferred. Additionally, he transfered records from the water company to the district, customer lists, billing information, and maps. Mr. Kram also corrected any access problems found during inspection of water company facilities or sites. The following are clients who were assisted in water and sewer company transfers:

- Sugar Pine Water Company
- Soulsbyville Water Line Association
- Valley Vista Water Company
- Gibbs Ranch Water and Sewer
- Big Hill Water System
- Apple Valley Water System
- Portions of Crystal Falls Water System
- Tuolumne County Water System

HOURLY RATES

SCHEDULE

ENGINEERING:	**Hourly Rate**
PRINCIPAL/PROJECT MANAGER	$189.00
SENIOR ENGINEER	$172.00
ASSISTANT ENGINEER	$135.00
ENGINEER TECHNICIAN	$115.00
TECHNICAL STAFF:	
SENIOR DESIGNER	$115.00
DESIGNER	$105.00
CAD TECHNICIAN	$95.00
FIELD SERVICES:	
CONSTRUCTION MANAGER	$172.00
RESIDENT PROJECT REPRESENTATIVE	$145.00
ADMINISTRATION:	
OFFICE / CLERICAL	$65.00
EXPERT WITNESS:	$275.00

DIRECT COSTS:	COST PLUS 10 PERCENT
SUBCONSULTANTS:	COST PLUS 10 PERCENT
MILEAGE:	IRS RATE

BLACKWATER
CONSULTING ENGINEERS, INC.

602 Lyell Dr, Modesto, CA 95356
P: 209.322.1820 | F: 209.222.4088
www.blackwater-eng.com

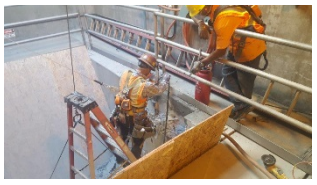
Consolidated CM Proposal

CONSOLIDATED CM
Professional Construction Management







Proposal

to provide

Resident Project Representative Services

for the

TUD

Tuolumne Utilities District
Sonora Wastewater Treatment Facility

Submitted: January 8, 2021

Professional Construction Management

January 8, 2021

Tuolumne Utilities District
18885 Nugget Boulevard
Sonora, CA 95370
jbatt@tudwater.com

Subject: Proposal to provide the Tuolumne Utilities District
Resident Project Representative Services for the Sonora Wastewater Treatment Facility

Attention: Jennifer L. Batt, PE – Associate Engineer

Dear Ms. Batt,

Consolidated CM, Inc. (CCM) is pleased to submit our proposal to provide Resident Project Representative Services for the Sonora Wastewater Treatment Facility. CCM has inspected the construction of wastewater treatment plant improvements throughout California on projects ranging from a few million dollars to over $150M. We have stable long-term employees and local staff available for your project. We understand project continuity is an important factor in project success and pride ourselves in finishing our projects with the same team we started. CCM understands the construction process thoroughly and most of our staff have also worked as contractors so we understand the work with a builder's eye. We also have licensed treatment plant operator's, engineers and contractors on staff so though the constructability portion of this assignment is only a small number of hours during the preconstruction phase of the project we are particularly skilled at plan review and will identify savings and economies while also smoothing the construction process and promoting a successful project.

Construction is a people business from both an experience and personality perspective and CCM has the right people for this project. We are proposing Matt Scoble, PE, QSP/D as Project Principal; Terry Fuller as the Resident Project Representative and Dave Lee, PE for constructability and special issues. They work together frequently, and consequently have no learning curve with the work or each other. They will be an effective project team from day one. In the event that additional resources are needed, CCM has you covered with Danny Willow, QSP and Wes Scoble as the backup Inspectors.

In summary, our team provides:

- ✓ Depth of experience: Individually and as a team our staff has extensive wastewater treatment plant experience much of it local and together. They will be supported by CCM's extensive infrastructure experience and depth of resources.
- ✓ Planned approach: The CCM work plan centers around building an expert, cooperative, informed team of the project participants (owner, designer, contractor and inspector) and then working collaboratively to complete the project, on time and on budget. We are very good at this and completely comfortable working as part of a mixed team of owner and designer staff. You will like working with CCM.
- ✓ We represent you: Our goal is to serve you and complete the project in the most efficient and cost-effective manner, working through both design and contractor issues with no bias. This approach has earned the respect of both the contractors and designers we have worked with and resulted in a firm history of zero claims on our projects.

CCM hereby acknowledges receipt of RFP ADDENDUM #1 and #2, signed copies are provided in the following pages, and states Matt Scoble is fully authorized to bind the firm.

Thank you for this opportunity. Should you need additional information you can discuss this proposal with Matt Scoble at (415) 385-2821 or via email, mscoble@connsolidatedcm.com or through our Oakland Office at (510) 208-1720.

Very truly yours,
Consolidated CM Inc.

F. Matthew "Matt" Scoble, PE, QSD/P
Executive Vice President

12/04/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.1

PROJECT: Resident Project Representative Services for the Sonora Wastewater Treatment Facility

TO: All Planholders

FROM: Tuolumne Utilities District

PROPOSAL DATE: Unchanged

Notice is hereby given to prospective proposers that the Proposal Documents for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility have been modified as hereinafter set forth. This Addendum No.1 shall form a part of the Proposal Documents and takes precedence over the original Proposal Documents.

The following revisions, additions, replacements, clarifications, or deletions shall be made to the Contract Documents:

REPLACEMENT: Exhibits C & D
The attached Exhibits C & D dated 12/04/2020 shall replace Exhibits C & D of the original proposal documents.

CLARIFICATION: Exhibit C, Federal Requirements
Compliance with all Federal Requirements listed in Exhibit C must be adhered to in order to be considered an eligible proposer.

Proposers shall acknowledge receipt of Addendum No.1 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer

I acknowledge receipt of Addendum No.1.

Signed _____
Proposer

12/30/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.2

PROJECT: Resident Project Representative Services for the Sonora Wastewater Treatment Facility
TO: All Planholders
FROM: Tuolumne Utilities District
PROPOSAL DATE: Unchanged

Notice is hereby given to prospective proposers that the Proposal Documents for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility have been modified as hereinafter set forth. This Addendum No.2 shall form a part of the Proposal Documents and takes precedence over the original Proposal Documents.

The following revisions, additions, replacements, clarifications, or deletions shall be made to the Contract Documents:

CLARIFICATION: Project Scope

The Resident Project Representative (RPR) shall act as an Inspector for the District and a liaison between the Engineer and the Contractor. The District will be providing a Construction Manager for the project that will be responsible for record keeping, processing pay requests, communications, etc. The RPR *is not* a Construction Manager nor shall he/she be responsible for tasks typically conducted by a Construction Manager. Any required special inspections will be coordinated by the project Engineer and are not the responsibility of the RPR. The RPR shall be present at all special inspections.

It is the District's intention to hire a firm which uses the same person for the Inspector throughout the duration of the project. The Inspector may utilize office support staff for some documentation; however, all daily logs shall be record by himself/herself. Please read Exhibit D-Services of the Resident Project Representative in the Request for Proposal very carefully.

Attached to this addendum is a plan view of the overall project site, the hydraulic profile of the project and a process flow diagram to help proposers better understand the breadth of the project.

Proposers shall acknowledge receipt of Addendum No.2 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer
Tuolumne Utilities District

I acknowledge receipt of Addendum No.2.

Signed_____
Proposer Signature

TABLE OF CONTENTS

SECTION 1 – FIRM INFORMATION

At Consolidated CM (CCM), we are construction people and our business is providing professional management services on construction projects. CCM was formed in 1994 to provide professional Project and Construction Management support to public owners. Our work focuses on public infrastructure construction and our projects range in size from a few million dollars to over $575M. We work on water and wastewater projects throughout California. CCM has a California Professional Engineer License and is a licensed Contractor. CCM has been rated one of the top 100 CM firms in the United States.

Every day, we assist public and private owners with their projects. Whether the need is for staff extension, specific consulting services, stand-alone inspection support, or a complete management team, CCM and our flexible approach to construction meets their needs. Our mission is to provide superior service to our clients. We do this by providing some of the most experienced construction professionals in the industry to inspect or manage our client's project and by ensuring communication between all parties remain open, productive, and clear. We offer our clients an opportunity to not only benefit from this philosophy, but to take advantage of our staff's professional, yet practical, hands-on approach.

Each project is unique, and CCM offers expert staff and support services that meet each client's particular needs. Construction support from CCM can include field engineering, inspection, change management and negotiation, ongoing value engineering, physical and internet file documentation, scheduling, testing, forensic inspection, and reports for all phases of a project from design review to the final closing documentation. We are a full-service firm, and when a challenge arises which requires other skills, we can smoothly assist as much or as little as needed to support the project and the District.

The following is a partial list of some of the services we can provide:

Design Management	Construction Management	Project Management
Bid Package Preparation	Bid Phase Management	Program Management
Resident Engineering	Value Engineering	Constructability Review
Claims Avoidance	Expert Witness Services	Mediation
Estimating	Scheduling	Sequencing
Start-Up	Commissioning	LEED Facilitation
SWPPP	Design-Build	Inspection

Pending Claims and Litigation

CCM has no past, present, or pending legal actions on any of our projects related to provision of our construction management services. CCM has never been named in a formal claim on any project or been removed from any position. All of CCM's efforts, from the design phase through construction and close-out, are structured to resolve disputes fairly, to keep work moving on schedule, and ultimately, to achieve superior quality in the final product.

SECTION 2 – FIRM EXPERIENCE AND REFERENCES

The Consolidated CM (CCM) team will provide constructability review, resident project representative (inspection) services and contract administration for the District's upgrade and expansion of the Sonora Wastewater Treatment Plant and provide any other miscellaneous associated support as the District requests. CCM has been involved in billions of dollars of construction and worked in dozens of treatment plants throughout California over the last quarter century from our three principal northern California offices in Oakland, Sacramento and Modesto. Our work covers both infrastructure and building construction.

We work for many utility districts including Vallejo Flood Control and Sanitation, Napa San, East Bay MUD, Contra Costa Water District, Delta Diablo Sanitation District, Contra Costa County or the Port of Oakland as well as public agencies farther afield such as: Lincoln, Gilroy, San Clara Valley Water District, Vacaville, Santa Cruz, Yountville, Calistoga, St. Helena, Patterson. San Joaquin, Tracy or Modesto to name a few of our infrastructure clients. To support this volume of work, CCM employs a professional staff of engineers, architects, inspectors, schedulers, estimators and plant operators as well as design-build, Claims, Labor Compliance and BIM experts. We also work at-risk as a licensed contractor for both the State, federal government and occasionally for private organizations so should the District require more hands-on support then our inspectors (RPR) typically provide we can also work in that manner. We wish to note the average CCM employee has been with the firm over 8 years and many longer. This provides a continuity to our services which is valuable and uncommon in the current full employment California construction economy.

Over the last few years, CCM has provided Construction Management and Inspection Services as well as specialty support for dozens of wastewater and water projects in California up to about $200M in value so we are comfortable and cost effective on virtually any size project up to half a billion dollars. The table on the following pages provides a detailed listing of selected recent and relevant projects on which CCM has provided these services; they include detailed descriptions, costs, references and CCM's role on the project.

As you review the specific project information contained in the following pages, we are confident you will appreciate our commitment to your project as well.

SIMILAR EXPERIENCE														
PROJECT:	Influent Facilities Flow Control Screening Grit Removal Influent Pumping	Primary Treatment Gravity Clarifiers Sludge Collection & Pumping Grease/Scum Removal & Pumping	Secondary Treatment Air & Oxygen Activated Sludge Oxidation Ditch MBR Trickling Filters	Plant Pumping Systems Sludge Pumping RAS WAS Recycled Water Delivery Plant Water Back Wash	Tertiary Systems Membrane Filters (Bag, Plate Disc) Mixed Media Filters (Gravity, Pressure)	Sludge Systems Aerobic & Anaerobic Digesters Sludge Drying Dissolved Air Flotation Systems	Disinfection Systems Chorine Hypo-Chloride UV Sulphur-Dioxide	Plant Control and SCADA Systems/ Security	Plant Power Systems Primary Service Sub-stations & Main Switch Gear Secondary Distribution, Substations & Switchgear Motor Control & VFD Systems	Plant Site Improvements Grading Paving Storm Drainage Sediment Control	Environmental Testing, Monitoring, Training and Mitigation	Plant Startup, Commissioning and Process Stabilization	Grant and Loan Funding Documentation, Compliance and Reporting (EPA Clean Water, DWR, USDA, SRF)	Warranty Inspections and Management
City of Jackson Wastewater Treatment Plant Improvements ($12M)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
City of Lincoln Midwestern Placer Regional Sewer Project ($63M)	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
City of Hayward Water Pollution Control Facility Upgrades ($54M)	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Eastern Municipal Water District Perris Valley Regional Water Reclamation Facility ($165M)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
City of Modesto Dissolved Air Flotation Facility ($15M)				✓				✓	✓	✓	✓	✓		✓
City of Modesto Tertiary Treatment Facility, Phase 1A ($25M)	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
City of Tracy Wastewater Treatment Plant Expansion ($70M)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
City of San Joaquin Wastewater Treatment Plant Expansion ($7M)	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓
City of Gilroy/ Morgan Hill Wastewater Treatment Plant Improvements ($52M)	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓
City of Davis Water Quality Control Plant Expansion ($18M)	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
City of Vacaville Wastewater Treatment Plant Expansion ($60M)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

WASTEWATER TREATMENT PLANT IMPROVEMENTS PROJECT

City of Jackson
33 Broadway, Jackson, CA 95642

Susan Peters, AICP, City Planning/Interim City Mgr
(209) 223-1646

Cost: $12M

Completion Date: February 2019

Services Provided: CM and Inspection

Why Relevant:
- ✓Operational Treatment Plant
- ✓Grant Funding and Reporting
- ✓Complex Multi-phase Construction Schedule
- ✓Demolition and decommissioning of existing facilities
- ✓SCADA System Upgrades and Security
- ✓Environmental Sensitive Area
- ✓Odor Control System
- ✓Plant Site Improvements – grading, paving, storm drainage

Consolidated CM recently provided Construction Management and Inspection Services to the City of Jackson for the improvements to its existing Wastewater Treatment Plant to meet the Waste Discharge Requirements of the State Water Resources Control Board with respect to both capacity and quality of treated effluent.

The primary components of the improvements project included modification of the oxidation ditches to provide more reliable, simultaneous nitrification and denitrification; construction of a new cloth disc tertiary filtration facility to replace the existing shallow bed sand filters; construction of a new open channel UV disinfection facility; modifications to the headworks and replacement of the existing belt filter press with a new screw press system for dewatering the plant's biosolids. In addition to treatment process related improvements, electrical infrastructure improvements include installation of a new electrical service, transformer, meter/main switchboard, generator, and new MCC Building. The project also included miscellaneous utility and site improvements.

REGIONAL SEWER PIPELINE PROJECT

City of Lincoln
600 6th Street, Lincoln, CA 95648

Ray Leftwich, PE
City Engineer/Construction Mgr.
(916) 434-2470

Overall Program Costs: $77.5M
WWTRF - $15,340,000
Pipeline - $20,092,100
SMD1 Pump Station - $6,223,000

Completion Dates: February 2017

Services Provided: Program Management, Inspection, Scheduling, Constructability & Claims Mitigation

Why Relevant:
- ✓Operational Treatment Plant
- ✓Grant Funding and Reporting
- ✓Demolition and decommissioning of existing facilities

CCM was the Program Manager on the City of Lincoln's Midwestern Placer Regional Sewer Project is a cooperative effort between Lincoln and Placer County to construct a new 20" HDPE pressure pipeline approximately 13 miles long to connect the County's SMD#1 treatment plant on Joeger Road to the City's existing 6-mile gravity pipeline and 4.2 MGD Wastewater Treatment Plant. The project included a 30" bore and jack under Highway 193 under Caltrans permit and 2 horizontal direction drilled (HDD) hard rock creek crossings 30" in diameter the creeks were environmentally sensitive salmon runs.

The project includes transitioning the existing smaller wastewater plants to lift stations, and increasing capacity at the Lincoln Plant. The regional sewer project includes three main parts:

1) Sewage pump stations at Auburn and North Auburn Wastewater Treatment Plants.

2) Pressurized pipe from each of these pump stations to convey sewage to the City of Lincoln.

✓SCADA System Upgrades and Security ✓Environmental Sensitive Area ✓Plant Site Improvements – grading, paving, storm drainage	3) Expansion of the Lincoln Wastewater and Reclamation Facility to accommodate the Auburn and North Auburn sewage. The project also benefits the environment by removing treated effluent from sensitive foothill streams that serve as spawning grounds for the endangered Steelhead Trout and Salmon.
ON-CALL WWTP INSPECTION SERVICES ON-CALL COLLECTIONS INSPECTION SERVICES -OUTFALL PIPELINE REPAIRS -PLANT OPERATIONS BUILDING (POB) SEISMIC UPGRADES -SERVER ROOM RELOCATION -MECHANICAL AND CONCRETE TANK RENOVATIONS -HEADWORKS SCREENING UPGRADE -RECYCLED WATER RESERVOIR RELINING -ORINDA SEWER LINE REHABILITATION (3 Phases) Central Contra Costa Sanitary District 5019 Imhoff Place, Martinez, CA 94553 Mark Wenslawski, PE, Project Manager (925) 957-7619 Amanda Schmidt, PE, Project Manager (925) 335-7764 Mike Zubrzycki, PE, Construction Manager (925) 229-7378 Cost: $5.5M / $7M / $5.1M / $4.5M / $7M Completion Date: Ongoing / May 2020 / Ongoing / August 2018 / May 2018 / October 2019 Services Provided: Inspection and Contract Administration Why Relevant: ✓Treatment Plant ✓Grant Funding and Reporting ✓Operational Plant ✓Improves Effluent Water Quality ✓SCADA Upgrades	 CCM is currently providing Inspection Services for several Central San projects, including the Plant Main Outfall Pipeline Renovation, Plant Operations Building (POB) Seismic Upgrades, Server Room Relocation and the Mechanical and Concrete Renovations projects. The Plant Main Outfall Pipeline Renovation a 3.5 mile of older 72:" RCP which runs from the plant discharge to Suisun Bay. The pipe is a confined space and requires extensive repairs to the crown and pipe joints. The work must be completed in a tight time line prior to the start of the rainy season. The POB Seismic Upgrades the plant admin and maintenance buildings improved the seismic safety to meet the Damage Control Performance Level. It includes column strengthening by carbon fiber wrapping, addition of steel braces collector beams and MPR enhancements to ADA restrooms and improve access. The Server Room Relocation took place simultaneously, relocated the server, network and related equipment to a new Central San server room in the POB. It involved the re-routing of communication cabling and conduits to the new facility.  CCM provided Inspection Services and contract administration support on this $5.2M, 19-month project to import and upgrade the existing Central San Treatment Plant in Martinez, California. CCM was full time in the field coordinating with plant operations, providing inspection, and managing the testing and special inspection consultants. Many of the improvements directly impact existing plant operations, consequently, the project was planned and implemented in phases to facilitate concurrent plant operation and construction. Specific headworks improvements include removal, rehabilitation and relocation of four mechanical bar screens, new grit washers, compactors and tipping troughs, building remodeling and demolition, HVAC and odor control improvements, new electrical switchgear, piping & valving, VFDs, Process Control and SCADA system improvements, manhole rehabilitation using specialized coating systems, as well as fire protection improvements and plant paving work. Additional projects include the Plant Control System Network Upgrades, Recycled Water Reservoir Relining Projects, construction and rehabilitation pipelines in Orinda California which requires extensive interface with local residents and complex traffic control.

WATER POLLUTION CONTROL FACILITY UPGRADES

City of Hayward
777 B Street
Hayward, CA 94545

Don Clark, PE, Project Manager/Utilities Engineer
(510) 293-5098

Cost: $54,000,000

Completion Date: 2009

Services Provided: Constructability, CM & Inspection

Why Relevant:
- ✓Treatment Plant
- ✓Grant Funding and Reporting
- ✓Operational Plant
- ✓Improves Effluent Water Quality
- ✓SCADA Upgrades
- ✓ Environmental Sensitive Area
- ✓Project Site located next to bay
- ✓Plant Site Improvements – grading, paving, storm drainage
- ✓High-ground water and Bay mud

CCM provided project and construction management, inspection scheduling and contract administration support on this $54M project to improve and expand the operations, quality of treatment and reliability of the City's existing wastewater treatment plant infrastructure. During the design phase, CCM provided constructability and pre-qualification assistance to the City as well as value engineering and contract negotiations assistance. Once construction began CCM was full time in the field. The project site posed many challenges, from high groundwater and bay mud to existing inoperable facilities, some of which were only partially demolished and long forgotten. Many of the improvements directly impact existing plant operations; consequently, the project was planned and implemented in phases to facilitate concurrent plant operation and construction. Specific plant improvements included two 130 foot diameter final clarifiers, a new biofilter tank, a new solids contact tank structure and a mixed media odor scrubbing system. Six electrical buildings were constructed to house the new 12KV switchgear upgrade from the old 460volt system and an electrical duct bank was built around the entire parameter of the facility. Two additional process buildings were also built along with approximately 4,000 linear feet of large diameter (24-inch to 54-inch) process pipe mostly buried as well as smaller diameter process and utility piping. A new SCADA and process control system composed of distributed PLC controllers was also part of the scope of work.

WATER QUALITY CONTROL FACILITY NASTS UPGRADE

City of Patterson
1 Plaza Circle, Patterson, CA 95363

Tiffany Rodriguez, PE, Capital Projects Mgr.
(209) 895-8075

Cost: $2,700,000

Construction Dates: 2019-2020

Services Provided: Inspection and Labor Compliance

Why Relevant:
- ✓Operational Treatment Plant
- ✓Mechanical & Structural Improvements
- ✓SCADA Upgrades
- ✓ Environmental Sensitive Area

Consolidated CM provided Inspection Services for the City of Patterson on the Water Quality Control Facility NASTS Upgrade Project. The scope of work included additions and modifications to the City's existing North Activated Sludge Treatment System (NASTS) including addition of an anoxic basin and pump station, modifications to the existing oxidation ditch, modifications to the existing secondary clarification system including replacement of the secondary clarifier bridge and rake mechanisms, yard piping replacements, and, electrical and control systems modifications.

Though our initial scope of work was limited to inspection when significant structural damage was uncovered on the existing clarifiers CCM worked with the City, contractor and design team to create a structural repair approach that could stabilize the structure but also balance the available time and funding constraints to successfully complete the project.

SECTION 3 – PROJECT TEAM

Construction is a people business from both an experience and personality perspective and CCM has the right people for this project. We are proposing **Matt Scoble, PE**, **QSP/D** as Project Principal; **Terry Fuller** as the Resident Project Representative (inspector) and **Dave Lee, PE** for constructability and special issues. They work together frequently, and consequently have no learning curve with the work or each other. They will be an effective project team from day one.

We are construction experts and we use that expertise to solve problems and keep the work moving forward. The owner, designer, contractor, CM and Resident Project Representative (RPR) are a team and CCM is used to working as part of a mixed team. Our RPR, Terry will work seamlessly with the District's construction manager and the design team to provide a steady stream of field information, fully document site activity and to anticipate quality or scheduling challenges. He will also coordinate on a daily basis with plant operations staff to ensure they are aware of project progress, and are included in the planning of upcoming operational interface activities. That is not always an easy thing to do, but CCM as a depth of professional staff including licensed engineers and treatment plant operators to provide added support to the RPR should the need arise. Beyond our proactive no surprises approach to field inspection and support we have often succeeded when others have not because we understand the construction market and the associated issues which drive the contractor's decisions. That understanding comes from our construction experience and inspection expertise helps us keep projects steadily progressing that otherwise might bog down into posturing and non-compliant work. You will notice a strong positive difference in CCM's support from our constructability efforts to our day-to-day field actions and suggestions.

In the event that additional resources are needed, CCM has you covered with **Danny Willow, QSP** and **Wes Scoble** as the backup Inspectors (RPR). Both individuals bring current and solid WWTP experience to the table, should an unexpected need arise. Terry will be the only full-time team member. He was specifically proposed because of his experience on multiple treatment plant projects up to $100M and the fact he is a local resident so if an issue arises during off hours he can be onsite quickly to assist. Aside from his technical skills, Terry is very good at communicating with operations staff, an important skill when working in an operating facility such as the Sonora Plant. He understands that continuity of service is mandatory and he will continually work with the contractor to avoid surprises or impacts to treatment plant operations while concurrently ensuring quality of construction.

Matt and Dave's roles are small focused primarily on the pre-construction phase constructability review, but as veterans of literally dozens of treatment plant projects throughout California, to which is added Dave's status as a Grade V treatment plant operator, and the experience of both individuals with claims avoidance and expert witness work will serve the District well to help ensure the construction plans are ready for the bid phase. We note some of the project funding is from the USDA. Dave and Matt are both experienced with USDA funded work and can help keep things moving forward smoothly should the District require any assistance.

Resumes
Resumes for CCM's team are included in the Appendix and highlight their wastewater treatment plant experience.

SECTION 4 – RESIDENT PROJECT REPRESENTATIVE EXPERIENCE & REFERENCES

TERRY FULLER

Terry is a Senior Inspector with over 25 years of field experience on construction projects throughout California including extensive experience on water and wastewater systems, electrical and control systems, buildings, video security systems and heavy civil construction. He has worked at about a dozen treatment plants and is knowledgeable in all aspects of public construction. His is experienced on projects both large and small. His understanding of the special safety demands arising from working in operational environments is particularly valuable and his versatility is an asset to any team. His full resume is also included in the Appendix.

CITY OF PATTERSON WATER QUALITY CONTROL FACILITY NASTS UPGRADE PROJECT **Firm:** Consolidated CM

This project includes additions and modifications to the City's existing North Activated Sludge Treatment System (NASTS) including addition of an anoxic basin and pump station, modifications to the existing oxidation ditch, modifications to the existing secondary clarification system including replacement of the secondary clarifier bridge and rake mechanisms, yard piping replacements, electrical and control systems modifications.

Role: Inspector - Terry's responsibilities include quality assurance testing and conformance, inspection, materials testing coordination, startup and testing, punchlist preparation and final closeout.

Completion Date: February 2020

Reference: Tiffany Rodriguez, PE, Capital Projects Manager, City of Patterson (209) 895-8075

CITY OF JACKSON WASTEWATER TREATMENT PLANT IMPROVEMENTS **Firm:** Consolidated CM

The primary components of the City of Jackson WWTP Improvements Project include modification of the oxidation ditches; a new cloth disc tertiary filtration facility; construction of a new open channel UV disinfection facility; modifications to the headworks and replacement of the existing belt filter press with a new screw press system for dewatering the plant's biosolids. In addition to treatment process related improvements, electrical infrastructure improvements included the installation of a new electrical service, transformer, meter/main switchboard, generator, a new MCC Building and pipeline, utility and site paving improvements.

Role: Inspector - Terry's responsibilities include quality assurance testing and conformance, inspection, materials testing coordination, startup and testing, punchlist preparation and final closeout.

Completion Date: December 2018

Reference: Susan Peters, AICP, City Planning/Interim City Manager, City of Jackson (209) 223-1646

CITY OF MODESTO NORTH TANK AND PUMP STATION **Firm:** Consolidated CM

This 6-million-gallon water storage tank and 18 mgd pump station was constructed on a 6.3-acre City owned parcel on Bangs Road. The tank was a partially buried strand-wrapped pre-stressed concrete, Type 1 Tank. The pump station portion of the project consisted of 4 vertical turbine pumps with 250 horsepower motors. Additional site facilities included an emergency generator, drainage basin, site paving, landscaping, fencing, security systems, SCADA and lighting.

Role: Inspector - Terry's responsibilities include quality assurance testing and conformance, inspection, materials testing coordination, startup and testing, punchlist preparation and final closeout.

Completion Date: May 2017

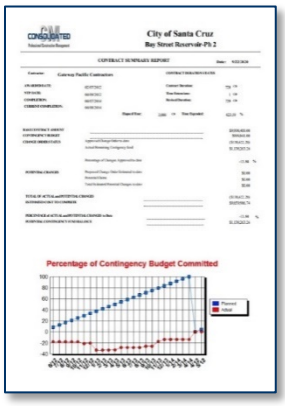
Reference: Dennis Becker, Construction Inspection Supervisor, City of Modesto (209) 577-5315

EDUCATION AND CERTIFICATION

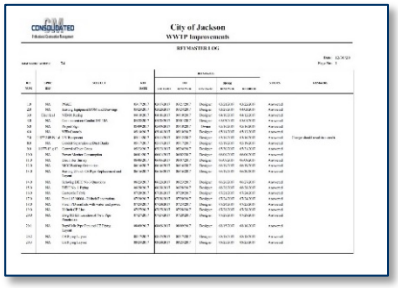
ICC Electrical; ACI Concrete; OSHA Lead Awareness Certification; OSHA Confined Space; OSHA 10 Hour; Asphalt Institute Airport Paving Superpave, Hot Mix Design; Caltrans Certificate of Proficiency-AC Highway Materials, Aggregate Highway Materials, Miscellaneous Highway Materials, PCC Highway Materials, QSP Training

SECTION 5 – APPROACH

IN THE OFFICE



CCM's role for the project is primarily to provide resident project representative services (inspection) but the scope also includes a constructability review and a bit of contract administration in the form of logs, files and meeting minutes. The USDA requires physical files and we will of course create and maintain those, but for efficiency during construction we will utilize our internet-based project management system for the time sensitive documents and dropbox as an electronic mirror of the physical project files. This approach will comply with USDA needs, while facilitating team communication, issue identification/resolution and reduce project administration costs.



Briefly, the way we would propose organizing our administrative effort will be for the contractor to submit all RFIs, submittals, and change requests via email and they will be logged into our system. Daily inspection reports and photos will be similarly handled. This will provide the team with the status of key issues in real time and better information results in better decision making. All on-line files will be password protected and the use of Consolidated CM's project management system is provided to the team at no cost. All team members, the District, designer, CCM and other key stakeholders will have access.

IN THE FIELD

As the resident project representative, our inspector will spend the majority of his time in the field overseeing the work, discussing & addressing potential quality concerns with the contractor, coordinating upcoming work with plant operations, documenting daily progress, assisting with progress payment review, the coordination of the testing activities and the implementation of changes. He will also attend the pre-con and weekly progress meetings, documenting each meeting with minutes and maintain an on-site set of project as-builts.

SECTION 6 – FEE PROPOSAL

Tuolumne Utilities District
Sonora Wastewater Treatment Facility
Resident Project Representative Services

Position	2021 May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2022 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL HOURS	RATE	AMOUNT
Principal	40	8	4	2	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	2	72	$203.00	**$14,616**
Resident Project Representative	16	8	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	2,904	$154.00	**$447,216**
Constructability Review / Special Issues	40	8	0	4	0	4	0	2	0	2	0	2	0	2	0	2	0	0	4	4	74	$203.00	**$15,022**
Document Control	8	8	8	80	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	1,128	$94.00	**$106,032**
																					4,178		**$582,886**
																					ODC's		**$12,000**
																					Total Budget Amendment Rquest		**$594,886**

NOTES:
1.) Estimated Duration 18 months of construction
2.) The constructability review will involve Matt Scoble, Dave Lee and Terry Fuller. It will performed in the pre-construction phase. A small additional budget for Mr. Lee has been provided for special issues as he is both an engineer and Grade V WWTP operator.
3. Hourly billing rates will be held for the project duration.
4.) The Resident Project Representative is an inspector and under Califorina DIR rules is a prevailing wage employee. He consequently must be paid for overtime (OT) and double time (DT). These are not anticipated but should they occur the OT rate is 1.29 base hour rate and DT rate is 1.49 time base rate. This has not been included in the budget.
5.) Special Inspection and Testing is NIC and will be performed by others.
6.) Other Direct Costs (ODCs) are for office suppliers, computer equipment, copier, travel, etc. They are billed at cost plus 10%. All costs will be suported with sale receipts.

APPENDIX – RESUMES

Matt Scoble, PE, QSD/P
Principal

Terry Fuller
Resident Project Representative

Danny Willow
Resident Project Representative-Backup

Wesley Scoble
Resident Project Representative-Backup

Dave Lee, PE, QSD
Special Issues / Constructability

Santa Cruz Bay Street Reservoir Replacement Project

REGISTRATION:

Registered Civil Engineer
- California #30165 – 1979
- Arizona #12172 – 1979
- Oregon #12484 - 1984

Building Commission Association, Member

Certified QSP and QSD

EDUCATION:

Bachelor of Science Mechanical Engineering, University of Arizona

Graduate Work: Hydrology & Water Resources Administration

Davis WWTP Expansion Project

Gilroy WWTP Project

MATT SCOBLE, PE, QSD/P
PRINCIPAL

BACKGROUND

During his 35+ years as an engineering professional, Matt has been involved in construction with public works infrastructure ranging in size from $10M to over $1B. He has been involved in construction at over 20 wastewater treatment facilities including Napa San's Soscol Plant. Matt has a strong background in construction management and claims resolution. Matt is also expert in value engineering, constructability review and project delivery. He is both a civil and mechanical engineer, and his specific treatment plant experience includes dozens of pump stations, a cryogenic oxygen system, UV, six new headworks & a large number of headworks renovations, microfiltration facilities, laboratories and SCADA systems. He regularly works in the field. He has just completed work at the Jackson and Patterson treatment plants and also is helping with oversight of renovations of the Central San WWTP in Martinez.

SELECTED EXPERIENCE

WATER AND WASTEWATER TREATMENT PLANTS

Hayward WWTP	SF Southeast WWTP
Yountville WWTP	NapaSan Soscol WWTP
Jackson WWTP	Central San WWTP
Patterson WWTP	Vacaville WWTP
San Mateo WWTP	Gilroy WWTP
Henderson WTP (NV)	Oxnard WWTP
Ventura WWTP	Davis WWTP
Clark County WWTP (NV)	91st Ave WWTP (AZ)
Ina Road WWTP (AZ)	Modesto WWTP
Perris Valley WRF	Sac Regional WWTP

Matt's work in the WWTP field has ranged from small system upgrades to new plants and major plant renovations in operational plants. Specific facilities include headworks, digesters, bio-towers, tanks, co-generation, micro filtration, DAF, primary, secondary and tertiary treatment facilities, laboratories and SCADA.

Napa Sanitation District Recycled Water Reservoir Lining Project ($3M)
Napa Sanitation District Earthquake Repair Project ($500,000)
Napa Sanitation District MST Recycled Water Expansion Project ($3M)
Napa Sanitation District Sarco Creek Pipeline Replacement Project ($1.1M)
Matt served as the Construction Manager for a number of recent Napa San Projects. His work has included both work at the Soscol treatment plant and in the field on pipeline work. In the process he has assisted with environmentally sensitive salmon runs, operational coordination, SRF reports and interfaced with all numerious local and State agencies. He is familiar with District procedures and can assist whether the project is small or large.

Yountville Water Recycling Expansion Project ($2.4M)
Yountville Hopper Creek Improvements ($3.1M)
Matt was Construction Manager for the Yountville Recycling Project that involved the construction of 3 miles of 8-inch pipeline in the public right of way, various treatment plant upgrades, improvements at five remote recycle ponds and a new SCADA system to control the entire system. The project was completed under budget. Concurrently, Matt oversaw the Hopper Creek Stormwater Improvements Project, which included 5300LF of 36-inch storm sewer in a high traffic roadway, and various associated improvements in environmentally sensitive creeks and drainage ways throughout the town.

City of Modesto DAFF Project ($15M) and Tertiary Treatment Project ($25M)
Matt served as project Principal for these two fast-paced, bonus-driven efforts. The DAFF project involved completion of the planned new dissolved air flotation facility in time to assist the City in treating the liquid agricultural waste associated with the local fall canning season. The Tertiary Treatment Facility Project followed the DAFF construction adding a new level of treatment to the Modesto facility. The tertiary project included 2.5MGD Ultraviolet Disinfection Facilities. Mr. Scoble assisted the City on the Tertiary Project by creating a revised qualifications-based bid approach which permitted the low bid contractor's qualifications to be factored into the responsibility evaluation of his bid while at the same time cutting three months out of the project bid and award schedule.

City of Davis
Water Quality Control Plant Expansion & Pipeline, East Area Tank, North Storage Tank, and Davis Police Headquarters
Matt served as the Project Manager, value engineering team leader and constructability reviewer for the expansion of this operational facility. The scope of work included new primary treatment facilities, a new digester, a LEMNA system, lift station improvements, substation, a new plant-wide SCADA system, a new maintenance building as well as new culverts and hydraulic gates, extensive berm & levee construction and reconstruction, holding pond construction, utility relocation, and paving. He was subsequently involved in the construction of two 4.2MG water tanks with associated pump stations and the City's design-build police headquarters.

City of Hayward Water Treatment Plant ($54M)
Matt served as Principal on this major effort to expand the City of Hayward's existing water treatment plant. CCM's scope of work on the project includes value engineering, constructability reviews, pre-qualification of contractors, bid phase support, scheduling, office engineering and resident inspection. Key elements of the project included two new clarifiers, a domed trickling filter, a new solids contact chamber, an extended aeration basin, and odor control beds and belt presses, among other project elements.

Gilroy/Morgan Hill Wastewater Treatment Plant ($52M)
As Project Manager, Matt represented the South County Regional Wastewater Authority, coordinating and supervising both the design and construction phases of a this new secondary and tertiary treatment facility. The program involved four multiple-phased independent construction contracts in a high-groundwater area with construction occurring over several difficult rainy winters. Due to Matt's efforts, a number of potentially costly construction disputes were resolved amicably, and the project was completed under budget without claims.

Oxnard Wastewater Treatment Facility Expansion ($50M)
Matt served as the Construction Manager for the City of Oxnard's wastewater treatment expansion program increasing plant capacity from 22 mgd to 31 mgd. He supervised inspectors, project controls staff, and subcontractors during construction on this high-groundwater, environmentally contaminated project site located only 100 yards from the beach.

City of Patterson Water Quality Control Facility NASTS Upgrade

CERTIFICATIONS:

ICBO Electrical

ACI Concrete

OSHA Lead Awareness Certification

OSHA Confined Space

OSHA 10 Hour

Asphalt Institute Airport Paving
- ✓ Superpave
- ✓ Hot Mix Design

Caltrans Certificate of Proficiency
- ✓ AC Highway Materials
- ✓ Aggregate Highway Materials
- ✓ Miscellaneous Highway Materials
- ✓ PCC Highway Materials

Security Clearance
- ✓ San Francisco International Airport (SFO)
- ✓ San Jose International Airport (SJC)

City of Jackson WWTP Renovation and Expansion Project

TERRY FULLER
RESIDENT PROJECT REPRESENTATIVE

BACKGROUND

Terry is a Senior Inspector with over 27 years of field experience on construction projects throughout California including extensive experience on water and wastewater process facilities, electrical and control systems, buildings, pipelines, video security systems and heavy civil construction. His understanding of the special safety demands arising from working in busy operational environments is particularly valuable. Last year Terry served as the Inspector on the seismic upgrade of the Central Contra Costa Sanitary District WWTP Main Administration Building.

SELECTED EXPERIENCE

City of Patterson Water Quality Control Facility NASTS Upgrade ($2.7M)
Terry served as the Inspection Services for the City of Patterson on the Water Quality Control Facility NASTS Upgrade Project. The scope of work included additions and modifications to the City's existing North Activated Sludge Treatment System including addition of an anoxic basin and pump station, modifications to the existing oxidation ditch, modifications to the existing secondary clarification system including replacement of the secondary clarifier bridge and rake mechanisms, yard piping replacements, and, electrical and control systems modifications.

City of Jackson WWTP Renovation and Upgrades ($12M)
Terry served as lead inspector for the upgrade of the City of Jackson WWTP. The project involved renovation of the clarifiers and oxidation ditch, a new disc filter, new screw press, headworks modifications, a new UV facility, repairs to the anoxic digestor, improvements to the plant admin and laboratory building, a new MCC/Electrical building and substation as well as extensive SCADA upgrades in the environmentally sensitive site on the banks of Jackson Creek.

Manteca Waste Water Treatment Plant Expansion ($22M)
District of Groveland Water Treatment Upgrade ($2.2M)
Terry served as Inspector for both of these operational plant expansion projects. The two projects were concurrent and involved a number of common elements, such as pumping facilities and UV disinfection. Terry split his time between the two assignments. He inspected the construction of new pre-stressed concrete digesters, secondary clarifiers, UV and a new oxidation basin utilizing fine bubble diffusers. Terry also handled all electrical and controls systems inspections. Principal electrical features were new 25-kV switchgear, transformers and backup generators and switchgear, VFDs and pump system installations.

City of Modesto North Water Storage Tank
Terry served as Inspector for this 6-million-gallon water storage tank and 18 mgd pump station constructed on a 6.3 acre City owned parcel on Bangs Road. The tank is partially buried, and is constructed of strand-wrapped pre-stressed concrete, Type 1 Tank. The pump station building and MCC room portion of the project consists of 4 vertical turbine pumps with 250 horsepower motors.

Contra Costa Water District Alternative Intake Project ($100M)
Terry served as a Senior Inspector for the construction of the Alternate pump station with 5-3000 HP pumps and a 2.5-mile, 72-inch pipeline that connects it to the existing Old River pump station. The system was constructed to increase the fresh water supply to the Contra Costa Water District's customer base and help avoid fluctuations and degradation of water quality. The work included tunneling under the river for the pipeline. Terry provided civil, electrical, mechanical and control systems inspection. He served as project closeout inspector responsible for punchlist and as-builts.

All American Canal Project ($250M)
Terry served as a Civil and Electrical Inspector on the inspection team that oversaw the construction of this new $250 million, 50 ft. deep, 27-mile branch to the American Canal System. The new canal runs between Yuma, Arizona and Imperial, California and was needed to permit retirement of a failing portion of the existing system, which was leaking severely. The work involved excavation of 24 million cu-yds of earth material and placement of 2 million square yards of 4-inch thick concrete lining.

Santa Cruz Bay Street Reservoir Replacement Project, Phase 2 ($13M)
Recently Mr. Fuller served as the lead inspector for the construction of a new 6 MG pre-stressed concrete tank, pump station, 18" potable water pipeline and complete curb to curb reconstruction of several city blocks. The site is an old 1920 vintage 27 MG reservoir, which required the import of 16,000 cubic yards of structural fill as well as a grout injection program to stabilize the site for the new facilities. Several older inaccessible pipelines were relined as part of the scope of work.

California State Route 180 West Expansion ($38.5M)
Terry served as Caltrans Civil/Electrical Inspector on this 2-mile extension of Highway 180 West. The project consisted of constructing two lanes east bound and two lanes west bound and included two major highway overpasses and an underpass as well as all associated street lighting and signals with electronic message signs and cameras. In his inspection role, Mr. Fuller provided QA/QC services as well as progress payment review, as-built and punch list closeout support.

San Francisco International Airport AirTrain Transit System
San Jose International Airport Baggage and Security Systems Upgrades
Working as senior electrical inspector, Terry oversaw all inspection on these two major building projects. He inspected for compliance of the completed work per National Electric Code (NEC) and National Fire Protection Association Codes at the San Jose International Airport project and worked closely with both contractors and airport officials to complete punch list items. For the new TSA Baggage and Security upgrade project, both projects involved extensive building renovation. Mr. Fuller also assisted with the inspection of building modifications, civil and building utilities and controls.

San Francisco International Airport Electrical and Civil Inspection
Terry provided specialized inspection at SFO on a wide variety of projects ranging from a new 5KV substation, an 18,000 HP backup generator system with a 10,000-gallon day tank, special security and fire protection systems. The work included paving, pile driving, runway lighting, high and low voltage wiring, and mechanical systems inspection.

Central Contra Costa Sanitary District
Headworks Screening Project

EDUCATION:

Business Administration,
Santa Rosa Junior College

CERTIFICATIONS:

CA General Contractor # 553019
UBC Certified Building Inspector #0972218-10
ICBO Structural Steel & Welding # 87296
ICBO Reinforced Concrete # 88917
ICBO Structural Masonry # 86453
ICBO Spray Applied Fireproofing # 90114
ACI Grade 1 Concrete Field Testing Technician
American Welding Society Inspector # 96040394
California Qualified SWPPP Practitioner (QSP)

City of Davis
Wastewater Treatment Plant Expansion

DANNY WILLOW, QSP

RESIDENT PROJECT REPRESENTATIVE-BACKUP

BACKGROUND

Danny has 30 years of experience in the construction industry. His duties have encompassed public works construction, roads and infrastructure resident engineering and inspection throughout northern California. Danny has just finished a short assignment at *Delta Diablo Sanitation District* working on Bay Point Sewer Repairs and is currently installing a PRV station and associated piping in Yountville.

SELECTED EXPERIENCE

Central Contra Costa Sanitary District Headworks Screening Project

Danny provided Inspection Services on this $5.2M, 19-month project to improve and upgrade the existing Central San Treatment Plant in Martinez, California. Danny was full-time in the field coordinating with plant operations, providing inspection, and managing the testing and special inspection consultants. Many of the improvements directly impacted plant operations, consequently, the project was planned and implemented in phases to facilitate concurrent plant operation and construction. Specific headworks improvements include removal, rehabilitation and relocation of four mechanical bar screens, new grit washers, compactors and tipping troughs, building remodeling and demolition, HVAC and odor control improvements, new electrical switchgear, piping & valving, VFDs, Process Control and SCADA system improvements, manhole rehabilitation using specialized coating systems, as well as fire protection improvements and plant paving work.

City of Davis East Area Tank ($10M) & Northside Storage Tank ($7M)

Danny served as senior field inspector for the East Area Pump Station and Tank. The project involved a new post-tension 4.2MG 165-ft diameter 45-ft tall water storage tank and associated 6000 GPM pumping equipment and SCADA upgrades. The East Area Storage Tank provides for an aboveground, pre-stressed, reinforced concrete tank with a capacity of four million gallons of drinking water with pumping, metering and chlorination equipment and controls in a pump building. Earlier Danny inspected the Northside tank, involving a similar pump station and 4MG pre-stressed tank and added a 4300 ft transmission pipeline.

Yountville Water Recycling Expansion Project
Yountville Hopper Creek Improvements

Danny recently served as the Inspector on the Yountville Recycling Project that involved the construction of 3 miles of 8-inch pipeline, treatment plant upgrades to switchgear, a fuzzy filter and a new DAF unit, as well as a new SCADA system to control the interface with the 6 remote pump station/reservoir sites. The project was completed under budget. Concurrently, Danny was the inspector the Hopper Creek Stormwater Improvements Project, which included 5300LF of 36-inch storm sewer in a high traffic roadway, and various associated improvements in environmentally sensitive creeks and drainage ways throughout the town.

CONSOLIDATED CM
Professional Construction Management

City of Davis Water Quality Control Plant & Pipeline
This was a $14M expansion of a water quality control plant and pipeline. The scope of work on this operational facility included new primary treatment facilities, a new digester, a LEMNA system, a new plant-wide SCADA system, and a new maintenance building. Additional elements included new culverts and hydraulic gates, extensive berm construction and reconstruction, holding pond construction, utility relocation and roadway repaving and lift station improvements. The project was later expanded to include the addition of a mile and a half of new 48-inch storm water pipeline and a siphon. The project required direct coordination with Caltrans to accomplish roadway and drainage facility improvements. As Senior Inspector, Danny's responsibilities included quality assurance testing and conformance, inspection, materials testing coordination, startup and testing, punchlist preparation and final closeout.

Contra Costa Water District Pump Station Discharge Improvements, Midhill Reservoir & San Miguel Pump Station
Danny served as Resident Inspector for a number of multi-million dollar construction projects ranging from the repair of several existing District pump stations and construction of a new pump station and pipeline to the construction of a new reservoir. He was responsible for inspection of all elements including structural, civil, mechanical, electrical and the installation and/or upgrade to switchgear, pumps, motors and pipeline.

Sarco Creek Pipeline Renovation/Replacement Project
As the Inspector for the Sarco Creek work, a Caltrans funded project that needed to relocate existing District facilities to clear the way for a new bridge over Sarco Creek on Highway 121 in Napa. The project included in-creek work on an established salmon run, weeks of 24 hr/day bypass pumping, manhole rehabilitation, new manhole construction and new sewer pipelines. Project staging required Highway 121 to be closed each day and re-opened each evening which required close coordination with Caltrans to ensure the complex traffic detour went smoothly.

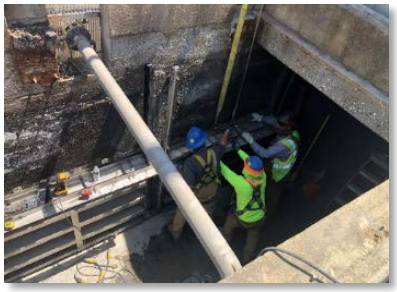
City of St. Helena Water Storage Tank 1A
Danny recently finished his role as the inspector on this 1.4MG prestressed concrete potable water storage tank located at the Louis Stralla Water Treatment Plant. The project constructed a new 1.4 million gallon water storage tank adjacent to the existing Tank 1 to allow for normal uninterrupted operation of the water treatment plant. Now that Tank 1A is constructed and put into service, Tank 1 will be rehabilitated and put back into service.

City of Calistoga Water Tank and Pipeline Project
Danny served as field inspector and QSP for this challenging new 1.5MG buried pre-stressed water tank and pipeline for the City of Calistoga. The project, which was constructed on the top of a Mt. Washington and buried 40 feet in the ground, was a SWPPP Risk Level 3 due to the wetlands at the base of the hill and its proximity to the Napa River. The pipeline as installed underneath a new roadway pioneered to the top of the hill.

City of Davis Public Work Roadway and Infrastructure Improvements
Cantrill Drive Construction
Pole Line Road Widening and Improvements
Windsor Road Widening and Improvements
Danny provided Inspection and Resident Engineering on a series of roadway improvement projects for the City of Davis. The work included construction of a half mile of new roadway connecting busy 5th and 2nd Streets which included all new utilities, signage, street lighting paving and a traffic rotary. Reconstruction of busy Pole Line road involving 6 new traffic signals, storm and sanitary sewers, medians, landscaping, signage, telephone, power and fiber-optic cabling, streetscape and lighting as well as repaving and resurfacing of the road and adjacent streets. Windsor Road, though a separate project with a different contractor, was also completely rebuilt in the same manner as Pole Line Road. During this period, Danny also assisted the city with concurrent small public works projects including: trunk sewer relining; Well 30 development; Train Depot Plaza improvements; and remodeling of the City Council Chambers. All roadway work was constructed to Caltrans standards.

WESLEY "WES" SCOBLE

RESIDENT PROJECT REPRESENTATIVE-BACKUP



Central San WWTP
Primary Sedimentation Tanks Improvements

EDUCATION:

Diablo Valley College (2014-Present)-Construction Management

Texas A&M University (2009-2011), Construction Management and General Studies

CERTIFICATION AND TRAINING:

ICC Commercial Building Inspector Certification #9225705

ACIA —Fire Door, and Public Work Inspections training

OSHA—30 Hour Safety Training

Scheduling Training—Primavera Scheduling Software (P3)

Central San WWTP
Outfall Pipeline Repairs

BACKGROUND

Wesley is an inspector with 7 years of experience with construction in both the field and office. During this time, he has provided support on both building and infrastructure projects. He served as inspector to Central San on the **Plant Outfall Pipeline Repairs** of which about 40% of the pipeline is located in *CCCFCD* easement and then handled a series of projects including: WWTP Network fiber optic Upgrades, sludge handling improvements, sluice gate/actuator replacements and mechanical and structural repairs to the primary sedimentation tanks. Immediately prior he assisted with infrastructure inspection at **Vallejo Flood and Sanitation on the Austin Creek Project** and a sewer replacement for **Delta Diablo Sanitary District**. He is a certified building inspector and is also knowledgeable with schedules, change orders, contract administration and the LEED Green Building Process.

SELECTED EXPERIENCE

Central Contra Costa Sanitary District

- Outfall Pipeline Repairs
- Plant Operations Building (POB) Seismic Upgrades
- Server Room Relocation
- Mechanical And Concrete Tank Renovations

Wesley is currently serving as the Inspector on the Plant Outfall Pipeline repairs, a 72"diameter 3-1/2 mile pipeline. Prior to the outfall work he inspected the mechanical and Concrete Tank Repairs. Earlier he inspected the Plant Operations Building (POB) Seismic Upgrades and the associated Server Room Relocation which place concurrently and relocated the servers, network and related equipment to a new Central San server room in the POB. The work also involved the re-routing of communication cabling and conduits.

Napa Sanitation District

- Recycled Water Reservoir Lining Project ($3M)
- MST Recycled Water Pipeline Expansion Project ($3M)
- 2014 Earthquake Seismic Repair Project ($500,000)

Wesley served as office engineer and backup inspector for these three fast paced infrastructure projects involving pipelines, bore & jacking, reservoirs, and related structures. The projects were all in environmentally sensitive areas. In this role he provided construction administration, monitored time and material records, prepared meeting minutes, interfaced with local residents and assisted during the Napa Valley fires which impacted the projects.

CONSOLIDATED CM
Professional Construction Management

Yountville Hopper Creek Flood Control Project ($3.5M)
Wes served as assistant inspect/office engineer for the Hopper Creek Improvements Project which involved a series of interrelated environmentally sensitive work sites which together comprise the Yountville flood control system. A significant portion of the work took place in stream beds and drainage channels, consequently California Fish and Wildlife required work in the streams and channels to be completed by October 15th. The balance of the work, involved about a mile of 36” stormwater piping and various flood control structures as well as road reconstruction.

SFSU 1600 Holloway Mixed Use Building ($81M)
Wes recently served as assistant inspector in support of the project IOR on this project is located on the San Francisco State University campus south Block 6. This project required the demolition of existing single-story housing. The new 214,400 SF BIM designed, mixed- use development will include underground parking, retail, study lounges and residential units. The project is a Public-Private Partnership (PPP) project and is pictured to the right.

SFSU City Eats Dining Center ($450K)
Wes served as inspector on this renovation of the existing City Eats Dining Center on campus. The project consisted of replacing the existing finishes, and adding new kitchen equipment. The existing mechanical systems and HVAC were modified to accommodate a new ceiling, as well as new plumbing service connections. The existing electrical service, lighting and existing fire alarm were modified and a new automatic fire sprinkler system was added.

Caesar Chavez Student Center U-Club ($250K)
Wes also served as inspector for the remodel of the University Club meeting room in the Caesar Chavez Student Center on the SFSU campus. The entire interior was demolished, and new electrical, lighting and fire protection systems were installed, followed new sheet rock wall and ceiling and floor, wall, and ceiling finishes. The work took 3 months to complete.

Santa Cruz Bay St Reservoir and Pipeline Expansion ($18M)
Wesley served as office engineer and assistant inspector preparing meeting minutes, change order estimates & documentation and neighborhood outreach for this large and complex water storage, pipeline, CIPP pipe relining, roadway reconstruction and pump station construction project.

Peralta Oaks Seismic & Tenant Improvements ($26M)
Wesley served as LEED facilitator of this complex 3-story renovation conversion of an old 1960’ vintage business building into three state of the art laboratories. The 1st floor was the County Corner’s lab, 2nd floor the Public Health Lab and the 3rd floor the Sheriff’s Forensic lab. Wes handled the LEED green building process. The building was awarded a LEED Gold rating.

San Ramon Police Headquarters Renovation ($3M)
As part of the project’s design-build team focused on the renovation & conversion of a 1970’s vintage office building into a modern, secure police facility. Wes’ role involved office engineering, sub-contractor coordination, contract administration and construction invoice review and inventory control.

San Francisco Mint Seismic Improvements ($4M)
Working for the general contractor as office engineer, Wes assisted with contract administration, subcontractor coordination, materials receiving and inventory and other as-needed assignments working on a series of interrelated building seismic improvements for this historic structure.

DAVID "DAVE" LEE, PE, QSD
SPECIAL ISSUES

City of San Joaquin
Wastewater Treatment Plant Expansion

City of Modesto
DAFF/Tertiary Project, Phase1A

REGISTRATION:
Civil Engineer, California #23929

Grade V Wastewater Treatment Plant Operator, California #V-4179

EDUCATION:
Master of Science,
Water Resources Hydraulics and Sanitary Engineering,
University of California, Davis

Bachelor of Science,
Civil Engineering, California State Polytechnic University, Pomona

BACKGROUND
Dave is a registered Civil Engineer with specific experience as a designer, contractor and construction manager. He is an expert in water/wastewater construction with over 50 water and wastewater projects to his credit. He served 8 years as a board member for the Christian Valley Community Water District and is a licensed Grade V Treatment Plant operator. He has over 38 years of experience covering the full range of CM and engineering services. Because of his background as an engineer, a plant operator and a contractor, he is particularly well qualified to assist with the special types of challenges that arise when major construction is overlaid upon ongoing plant operations. Dave has guided numerous challenging construction efforts to a successful conclusion and in the process, he has also become an expert in project troubleshooting and claims avoidance. Beyond his unique value as a highly qualified problem solver, Dave is also experienced in SRF Funding Requirements, design-build, value engineering, constructability reviews, and construction claims. Dave is frequently asked to analyze and negotiate or mediate complex construction disputes or serve as an expert witness as he recently did for the City of Tracy on their $70M WWTP or of the Metropolitan Water District on over $100M in construction claims.

SELECTED EXPERIENCE
City of Lincoln's Regional Sewer Project ($77M)
Dave served as full time Program Manager on this SRF funded joint effort between Lincoln and Placer County to construct a new 20" HDPE pressure pipeline. The pipeline is approximately 13 miles long and connects the County's SMD#1 treatment plant to the City's existing 6-mile gravity pipeline and 4.2 MGD Wastewater Treatment Plant. The project included transitioning existing smaller plants to lift stations, constructing a lined reservoir, and expanding and upgrading the Lincoln WWTP Plant.

City of Modesto DAFF Project ($15M) and Tertiary Treatment Project ($25M)
Dave served as Construction Manager for these two fast-paced, bonus-driven efforts. The DAFF project involved completion of the planned new dissolved air flotation facility in time to assist the City in treating the liquid agricultural waste associated with the local fall canning season. The Tertiary Treatment Facility Project followed the DAFF construction adding a new level of treatment to the Modesto facility. The tertiary project included 2.5MGD Ultraviolet Disinfection Facilities. Dave assisted the City on the Tertiary Project by creating a revised qualifications-based bid approach which permitted the low bid contractor's qualifications to be factored into the responsibility evaluation of his bid while at the same time cutting three months out of the project bid and award schedule.

San Joaquin Waste Water Treatment Plant Expansion ($7M)
Dave served as the Principal for this difficult phased treatment plant upgrade. The project is complex due to its eight separate funding sources, the need to track all expenditures by funding source, the different requirements each funding agency requires and the need to phase the work around the operating plant systems to avoid impact to the operating plant.

Eastern Municipal Water District – Perris Valley Regional Water Reclamations Facility ($165M)
Cactus Avenue Pipeline Claim ($10M)
Dave provided CM oversight, claims avoidance support and claims analysis and negotiation on this major expansion at the Perris Valley plant. The added plant capabilities include Tertiary treatment of discharge providing reclaimed water for irrigation throughout the area. The project includes Primary Clarifiers, Secondary Clarifiers, Blower Buildings, Aeration Basins, WAS Thickening Building, Digesters, Digester Gas Flaring, Digester Gas Compression Building, and Cogeneration Facilities. Under Dave's leadership, CCM has been called upon to oversee the existing CM firm, who also the designer, to develop 'best practices' to be employed dealing with a large, sophisticated contractor who utilizes very aggressive contract administration techniques.

City of Hayward, Wastewater Treatment Plant ($54M)
Dave served as CCM's Special Issues Advisor on the expansion of the City's existing water treatment plant. Key elements of the project included: two new clarifiers, a domed trickling filter, a new solids contact chamber, an extended aeration basin, odor control beds and belt presses, among other project elements.

Easterly Wastewater Treatment Plant Expansion, Vacaville, CA ($80M)
Dave assisted the City with construction management oversight and claims mitigation on this $80M wastewater treatment plant expansion. The contractor failed to provide adequate supervision, coordination and scheduling. This coupled with design construction sequences for inlet headwork's tie in and disinfection services which were contradictory resulted in challenges which the contractor attempted to capitalize on for relief when the project was only 60% complete at 90% of the contract time. Dave initiated a review with the owner, engineer, and operations staff, identified nominal operational adjustments and interim temporary disinfection facilities which eliminated the design construction sequence impacts. This allowed the plant to meet discharge compliance. The project ultimately completed 17 months late, but because of the operational changes that CCM developed and implemented, there was no owner liability for the contractor's late performance.

Port of Oakland Berth 57, 58 and 59 ($90M)
As project manager, Dave oversaw our 12-man on-site construction team and led the efforts to resolve a number of major engineering challenges which occurred on the project. Specific project issues Dave was able to resolve without impact to the project included creating an alternate design and work sequence to address the failure of the cement deep soil mixing (CDSM) system to stabilize the local bay mud, and creation of a hazardous soil inventory system to manage the tens of thousands of yards of contaminated soil on the site. Because of his superior management of the project, the port elected to add an additional wharf (Berth 59) and a groundwater treatment facility to the CCM scope of work. Dave was able to negotiate these changes with the contractor without allowing the increased scope of work to extend the project completion date.

South County Regional Water Authority Gilroy/Morgan Hill Wastewater Treatment Plant ($52M)
Dave was the Construction Manager for this new 15 mgd wastewater treatment plant, which was already in progress when he assumed on-site management. He was responsible for schedule recovery of the mechanical systems construction, equipment procurement, and development of a comprehensive testing and commissioning plan. The project involved construction of over 200,000 square-feet of new structures in a high groundwater area, with work occurring over several difficult rainy winters.

180 Grand Avenue, Suite 1520 ● Oakland, CA 94612 ● (510) 208-1720 ● (510) 208-1721 fax

1165 Scenic Drive, Suite C4 ● Modesto, CA 95350 ● (209) 303-7055

2500 Venture Oaks Way, Suite 125 ● Sacramento, CA 95833 ● (916) 646-2830 ● (916) 646-2831 fax

www.consolidatedcm.com

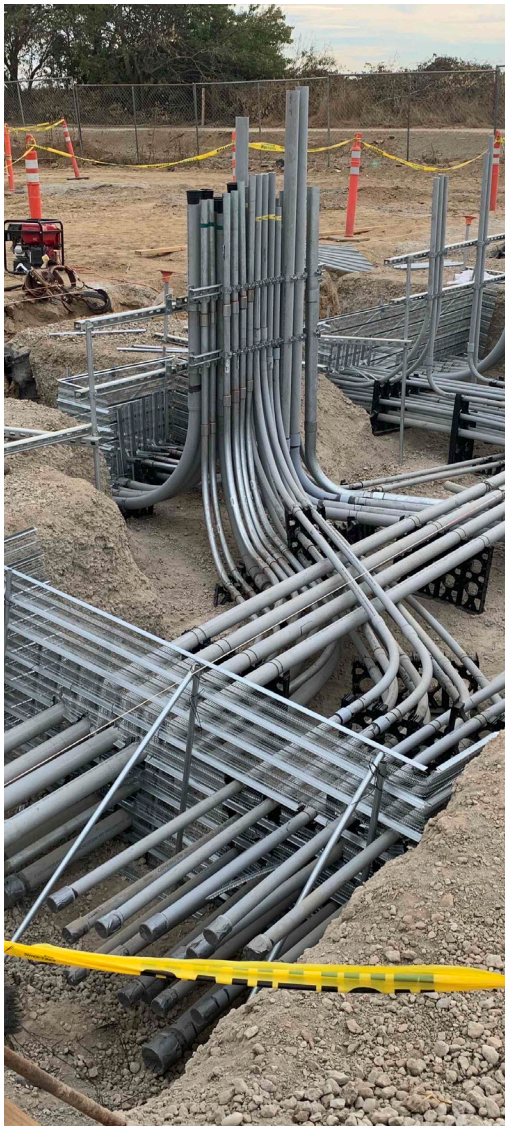
Kennedy Jenks Proposal

January 8, 2021

Electronic

TUOLUMNE UTILITIES DISTRICT

Resident Project Representative Services for the Sonora Wastewater Treatment Facility



Kennedy Jenks

Kennedy Jenks

January 8, 2021

Tuolumne Utilities District
Attn. Jennifer L. Batt
18885 Nugget Blvd.
Sonora, CA 95370

Subject: Technical Proposal for Resident Project Representative Services for the Sonora Regional Wastewater Treatment Facility

Dear Ms. Batt:

The Tuolumne Utilities District (District) is embarking upon a major capital improvement project and investment to upgrade its 50-year-old Sonora Regional Wastewater Treatment Facility (SRWWTF) to increase the design biochemical oxygen demand (BOD) influent load limit and design suspended solids loading criteria. The proposed improvements must be constructed safely, on time and within budget, with the specified quality and functionality, while maintaining plant operations. In addition, construction impacts and disruptions to the community must be minimized and regulatory permitting requirements must be met. Drawing from our 101-year infrastructure history, including over 3,700 completed construction projects, Kennedy Jenks (KJ) understands the constraints and challenges of the project. Our proposal offers the District the expertise required to effectively observe and inspect construction in the field, monitor and maintain documentation and communication, and support the District's overall construction management efforts. For your project, we will accomplish this by providing:

- **A RESIDENT PROJECT REPRESENTATIVE (RPR), NICK CLOUSER, WITH A RECORD OF EFFECTIVE COMMUNICATION AND RESPONSIVE SERVICE.** Nick Clouser brings over 25 years of experience successfully delivering projects totaling over $70M throughout California. This experience, paired with Nick's strong interpersonal communication skills, will provide the expertise you need to deliver your project with the schedule, budget and quality you want. **Nick will act as an extension of the District's Construction Manager to monitor and manage field activities on the District's behalf, validating that each stage of construction is delivered and documented as planned.**

- **DIRECT, RELEVANT TREATMENT PLANT CONSTRUCTION EXPERIENCE THAT ALIGNS WITH YOUR NEAR- AND LONG-TERM GOALS.** Our firm qualifications--summarized in our proposal--demonstrate our deep bench of qualified field staff with construction experience on projects similar to the SRWWTF upgrade to support Nick as-needed. Nick's qualifications and resume highlight his capability and suitability for this project, with an understanding of the challenges of your project and an array of strategies to mitigate these challenges. **Specifically, one of Nick's most recent projects for the City of Newman included upgrades to their water system to meet local and state regulations while maintaining operation of the existing facilities.**

- **A PROVEN APPROACH FOR LARGE COMPLEX TREATMENT PLANT UPGRADES THAT EMPHASIZES CONTINUITY OF OPERATIONS.** We have spoken with your staff, reviewed available documents, and have identified potential challenges during construction and are prepared to recommend solutions to resolve them. Of primary concern is the maintenance of plant operations (MOPO) during construction and commissioning. **In KJ's advisory role as representative of the District, we propose RPR Nick Clouser include a discussion of MOPO as a standing item in weekly meetings to identify, track, and address issues that may disrupt plant operations in advance.**

- **AN APPROACH DRIVEN BY PROVEN CONSTRUCTION PHASE ENGINEERING PRINCIPLES.** Our RPR philosophy is to employ proven construction engineering principles to act as the District's onsite agent and focus on the primary goals of a high-quality final project delivered on schedule and within budget, with minimal disruption to normal operations.

2882 Prospect Park Drive, Suite 240 | Rancho Cordova, CA 95670
(805) 550-4050 | SpencerArcher@kennedyjenks.com

Kennedy Jenks

Careful documentation and recordkeeping, regular reporting and monitoring of field activities, and clear, consistent communication with the District, the Engineer, Plant O&M staff, and the District's Construction Manager will be used to meet these goals.

We are highly motivated to work with you and the rest of your team on this challenging project. Below you can find the contact information for the corporate principal with contractual responsibly to bind KJ to the terms of the project identified, as well as being the main point of contact for the duration of the RFP throughout the period of evaluation:

Spencer Archer, Principal-In-Charge
2882 Prospect Park Drive, Suite 240
Rancho Cordova, CA 95670
(805) 550-4050

KJ acknowledges that two addenda have been released by the District. Please see signed acknowledgment in the back of this proposal.

Very truly yours,

Kennedy/Jenks Consultants, Inc.

Spencer Archer, P.E., BCEE
Principal-in-Charge

Ron Esmilla, P.E.
Project Manager

TABLE OF CONTENTS

Tuolumne Utilities District

Schedule of Hourly Rates

RATE SCHEDULE

Client/Address: Tuolumne Utilities District
Attn. Jennifer L. Batt
18885 Nugget Blvd.
Sonora, CA 95370

Kennedy Jenks

Contract/Proposal Date: January 8, 2021

Schedule of Charges

January 1, 2021

PERSONNEL COMPENSATION

Classification	Hourly Rate
Principal In Charge/Quality Assurance Manager	$220
Resident Project Representative	$180

Direct Expenses

Reimbursement for direct expenses, as listed below, incurred in connection with the work, will be at cost plus five percent for items such as:

a. Maps, photographs, 3rd party reproductions, 3rd party printing, equipment rental, and special supplies related to the work.
b. Consultants, soils engineers, surveyors, contractors, materials testing and specialty inspection firms and other outside services.
c. Rented vehicles, local public transportation and taxis, travel, accommodations and subsistence.
d. Project specific telecommunications and delivery charges.
e. Special fees, insurance, permits, and licenses applicable to the work.
f. Outside computer processing, computation, and proprietary programs purchased for the work.

Reimbursement for vehicles used in connection with the work will be at the federally approved mileage rates or at a negotiated monthly rate.

If prevailing wage rates apply, the above billing rates will be adjusted as appropriate.

Overtime for non-exempt employees will be billed at one and a half times the Hourly Rates specified above.

Rates for professional staff for legal proceedings or as expert witnesses will be at rates one and one-half times the Hourly Rates specified above.

Excise and gross receipts taxes, if any, will be added as a direct expense.

Tuolumne Utilities District

Project Understanding and Approach

Project Understanding

The District is seeking a Representative Project Representative (RPR) to act as Engineer's liaison, inspector, and oversight for the replacement of a component of its current aeration system at the Sonora Regional Wastewater Treatment Facility (SRWWTF). The primary purpose of the RPR is to act on behalf of the District and the Engineer to inspect and oversee the field activities, documentation, and schedule of the Contractor, provide guidance and recommendations to the Engineer, maintain daily log of site personnel and activities, and maintain project-related documents and records.

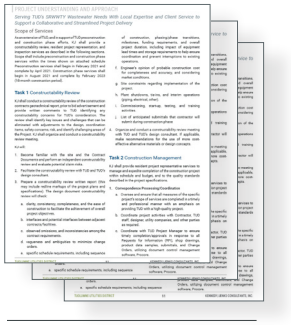


Figure 1. A detailed scope of work is included in Appendix A.

KJ's experience with construction projects, and **our proposed RPR Nick Clouser's experience on similar projects, will give the District the peace-of-mind they seek on this effort.** Nick's resume and project experience are supported by KJ's extensive firm experience on similar projects. This combined project understanding is deepened by the experience and judgment our engineers have gained as owners, engineers, contractors and construction managers on similar facility upgrades, expansions, and new plants. On **page 4**, we have used this experience to preemptively identify some potential roadblocks or future issues that may affect the project, with mitigation strategies to be discussed with the District, the Contractor, and Engineer.

Project Approach

The SRWWTF project represents a challenging major commitment and capital expenditure for the District. KJ sees the role of the RPR as a safeguard for the Owner to manage the risks associated with such a major undertaking. **With an over 100-year comprehensive understanding of water and wastewater treatment technologies and construction, KJ is a collaborative partner for the District,** leveraging a proactive and responsive approach to resident project representation. Our approach to construction projects is guided by assessment and reduction of risk beginning with project planning and constructability review through to commissioning and startup with minimal impact to plant operations. At every level, our focus is minimizing and mitigating potential hazards that might disrupt or derail the project.

Benefit to the District

Minimizing the process risk to the existing plant and reducing the total number of MOPO events and impacts to plant operations during construction.

With nearly thirty years of first-class performance managing construction of active water and wastewater projects locally, KJ understands construction challenges and can quickly align with the Engineer, District staff, and the Contractor to maintain documentation and help this project run smoothly. RPR Nick Clouser will lead our team and will coordinate closely with the District's Project Manager, Plant O&M staff, designer (PACE), and Contractor staff through transparent and responsive communication using proven project management and construction principles, including effective Maintenance of Plant Operations (MOPO) processes.

TAKING PRIDE IN OUR COMMUNITIES AND OUR CLIENTS

Because we live and work in the communities in which we provide services, providing our clients with outstanding project delivery is of paramount importance to our project teams. To the District, we commit to delivering:

- **Continuity of staff and service, with Nick Clouser as RPR for the duration of the project**
- **A deep bench of local Inspections staff to support Nick and act as temporary RPR in the case of unforeseen absence.**
- **A pool of available resources to support Nick as needed**
- **A quality assurance team of former owners, engineers, and contractors who understand how to build successful projects in an operating water reclamation facility**
- **The willingness and experience to work closely with plant operations, maintenance, and IT to minimize impacts to the plant**
- **Careful documentation and recordkeeping, as well as clear and consistent communication, and regular reporting to the District**

The principles guiding our construction phase work provide our RPR the tools and expertise needed to be effective as the District's agent onsite and to maintain a level of oversight and communication that will help the project adhere to quality, budget, and schedule expectations. Working in close conjunction with the District and serving as its agent, project advocate, and facilitator, RPR Nick Clouser will provide responsive communication, quality assurance, and oversight of field activities, thorough reporting and documentation of the work, and proactive management and/or mediation of disruptions or disagreements before they can result in costly delays and claims.

Key to our approach to construction projects is to establish strong professional relationships and clear communication with all stakeholders.

- KJ's RPR will integrate with the District's Project Engineer, O&M Staff, Construction Manager and Contractor to deliver a successful project according to District budget, schedule, and quality expectations.
- KJ's RPR will actively engage and attend all progress meetings, safety meetings, job conferences, and inspections/commissioning activities.
- KJ's RPR will foster open communication, including keeping regular daily logs/reports of field activities and acting as liaison between the District, the Engineer and the Contractor.

Figure 2. Improved responsiveness results in lower cost and successful on-schedule project delivery.

We have provided third party construction management services and staff augmentation for numerous Northern California projects and have worked effectively with local designers and construction firms.

We understand your construction challenges. We will work with the District's Construction Manager on this project to help keep track of RFIs, submittals and time-sensitive documentation to keep construction process moving efficiently. When needed, we will perform site investigations on behalf of the District to gather information for the designer's responses to RFIs. Proactively, we will help the District prioritize RFIs and submittals when needed or when the construction schedule becomes demanding. We recommend the use of a document control system such as Procore® to act as a streamlined document management repository.

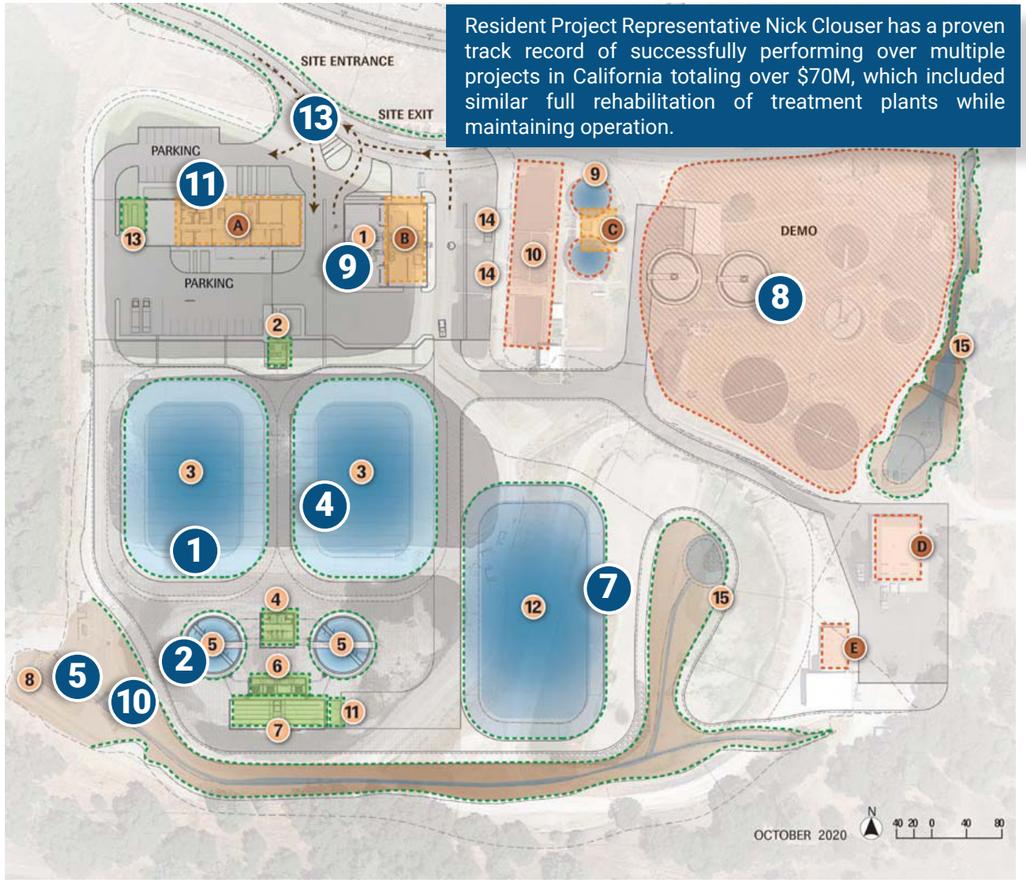
Maintaining Facilities Operation During Construction to reduce risk of regulatory violation

Treatment plant projects, particularly upgrades, have unique challenges and are prone to delay and claims unless properly managed. **Plant treatment must continue uninterrupted while fully functional facilities are constructed.** Unlike many engineering firms that provide construction services for all types of public works projects, **KJ specializes in wet infrastructure both by our design and construction team experience, giving us additional insight into the challenges of MOPO.** Ensuring uninterrupted plant operation and an orderly transition from construction to operations is critical to meeting NPDES discharge requirements. Most contractors wait until just before startup to prepare and submit their startup and testing plan. Our RPR will encourage discussion of coordination, planned shutdowns, and tie-in work as a standing item in each weekly progress meeting to minimize the impact to plant operations.

PROJECT UNDERSTANDING AND APPROACH

KJ's RPR will apply lessons learned from prior complex treatment plant upgrades to meet your project challenges while maintaining operations and, working with the District's Construction Manager to ensure quality, on-time, and on-budget project delivery.

- A Admin, Elect, and Blower Building
- B Biosolids Building
- C Digester Building
- D Renovated Existing Maint. Building
- E Renovated Existing Maint. Building
- 1 Headworks
- 2 North Process Station
- 3 Secondary Treatment - Biological Basins
- 4 South Process Station
- 5 Secondary Clarifiers
- 6 Teriary Filtration
- 7 Chlorine Contact Station
- 8 Downstream Connection to Effluent Distribution
- 9 Renovated Aerobic Sludge Digestion
- 10 Repurposed Existing Sludge Drying Bed
- 11 New Chemical Storage
- 12 New Emergency Storage Basin
- 13 New Generator Location
- 14 Septage Receiving Stations - A & B
- 15 New Drainage



Resident Project Representative Nick Clouser has a proven track record of successfully performing over multiple projects in California totaling over $70M, which included similar full rehabilitation of treatment plants while maintaining operation.

	CHALLENGES	CHALLENGE CATEGORIES	SOLUTIONS INCLUDE
1	Large reinforced concrete hydraulic structures with complex piping and mechanical equipment built adjacent to existing facilities		• Meaningful constructability review. • Thorough review of shoring plan; vibration and settlement monitoring. • Prevent undermining existing adjacent structures. • Verify bottom slab grade, GEOR confirm foundation stability. • Attention to water stop, rebar, embeds and hot weather concrete placement special inspection, concrete curing. • Potholing/MOPOs for pipeline tie-ins. • Confirm piping leakage testing for all structures and diffuser installation and leakage testing for BioBasins.
2	Verify gate and weir elevations for proper overflow		• Confirm embeds installed at proper location and elevation. • Survey weir elevations.
3	Voluminous number of submittals, design clarifications and RFI's		• Responsive use of Procore. Use lessons learned from Newman and Rosamond projects. • Identify/prioritize critical submittals and RFI's. • Conduct pre-submittal meetings for major and long lead time equipment. • In the field RFI responses when possible.

CHALLENGE CATEGORIES LEGEND

Safety · Access · QA · Geotechnical · MOPO/Startup · Sequencing

	CHALLENGES	CHALLENGE CATEGORIES	SOLUTIONS INCLUDE
4	Reliable pump, mixer and diffuser installation		• Conduct pre-activity meetings to ensure quality of work. • Monitor installation and confirm certificate of proper installation for all mechanical and electrical equipment.
5	Perform piping tie-ins properly		• MOPOs for tie-ins. • Perform potholing to confirm tie in locations and pipe materials. • As done at South SF, consider retaining specialist firm such as Subtronic to assist with underground utility location.
6	Ensure accurate record drawings		• Monthly verification of contractor's record drawing markups. Prerequisite for progress payments. • Inspectors maintain own mark ups.
7	Maintenance of plant operation (MOPO) and NPDES permit and project schedule compliance while remains in operation		• Confirm new facilities fully functional and tested before demolishing lagoons. • Develop phasing plan. Provide specific work and schedule constraints for Division 1 requirements. • Baseline schedule review workshop and detailed monthly update reviews by CM team. • Weekly meeting coordination with plant O&M. MOP review and startup meetings. • Timely provision of startup and testing plan and O&M manual and coordinate operator training.
8	Demolition of existing septage receiving station, headworks, primary clarifiers, trickling filters, and secondary clarifiers		• Thorough review of demolition plan and conduct on-site pre-activity meeting with Contractor and O&M staff. Verify hazmat survey and mitigation requirements for asbestos, PCB, VOC and lead based paint. • Review contractor demolition plan. • Monitor concrete and stairs demolition to avoid damage to facilities to remain. • X-ray to minimize cutting existing rebar. • Ensure new pipe penetrations are leak tight.
9	Reliable pump, piping, and valve installation		• Confirm pumps certificate of proper installation. • Verify coating and performance and vibration testing. • Confirm pipe supports and leakage testing.
10	Quality pipeline installations while protecting existing piping and duct banks		• Communicate traffic restrictions within plant • Potholing/MOPO's for tie-in's. • Monitor compliance with contractor shoring and dewatering plans. • Confirm proper line and grade. • Verify trench compaction and leakage testing.
11	Safe and reliable electrical facilities/proper SCADA integration		• Electrical work safety/LOTO. • MOPO for electrical system tie-ins. • Confirm conductors pulling tension and high potential testing • Confirm grounding and terminations. • Confirm field instrumentation loop checking. • Coordinate new PLCs with existing SCADA and system integrator/programmer.
12	Construction without disruption		• Enforce SWPPP and dust control requirements. • Survey subgrade and finished grade elevations to slope to drain and avoid ponding. • Potholing/MOPO's for tie-in's. • Monitor compliance with contractor shoring and dewatering plans. • Confirm proper pipe line and grade. • Verify soil and AC compaction testing. • Verify pipe leakage testing.
13	Traffic control/maintain safe access		• Enforce specifications for contractor yard/staging /laydown areas and staying within new facilities footprints. • Enforce traffic control. • Maintain access for plant chemical and other deliveries.

Scope of Services

As an extension of the District, and in support of the District preconstruction and construction phase efforts, KJ shall provide resident project representative services as described in the following sections. Scope shall include construction phase services within the times shown on attached schedule Preconstruction services shall begin in February 2021 and complete by April 2021. Construction phase services shall begin in August 2021 and complete by February 2023 (18-month construction period), as shown in the construction sequencing and RPR staffing schedule on **page 8**. Optional Services (not included in current scope) are included within **Attachment A.**

1. **General:** RPR's dealings in matters pertaining to the Work in general shall be with Engineer and Contractor. RPR's dealings with Subcontractors shall only be through or with the full knowledge and approval of Contractor. RPR shall generally communicate with Owner only with the knowledge of and under the direction of Engineer.

2. **Schedules:** Review the progress schedule, schedule of Shop Drawing and Sample submittals, schedule of values, and other schedules prepared by Contractor and consult with Engineer concerning acceptability of such schedules.

3. **Conferences and Meetings:** Attend meetings with Contractor, such as preconstruction conferences, progress meetings, job conferences, and other Project-related meetings (but not including Contractor's safety meetings), and as appropriate prepare and circulate copies of minutes thereof.

4. **Safety Compliance:** Comply with Site safety programs, as they apply to RPR, and if required to do so by such safety programs, receive safety training specifically related to RPR's own personal safety while at the Site.

5. **Liaison:**
   a. Serve as Engineer's liaison with Contractor. Working principally through Contractor's authorized representative or designee, assist in providing information regarding the provisions and intent of the Construction Contract Documents.
   b. Assist Engineer in serving as Owner's liaison with Contractor when Contractor's operations affect Owner's on-Site operations.
   c. Assist in obtaining from Owner additional details or information, when required for proper execution of the Work.

6. **Clarifications and Interpretations:** Receive from Contractor submittal of any matters in question concerning the requirements of the Construction Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Construction Contract Documents. Report to Engineer regarding such RFIs. Report to Engineer when clarifications and interpretations of the Construction Contract Documents are needed, whether as the result of a Contractor RFI or otherwise. Transmit Engineer's clarifications, interpretations, and decisions to Contractor.

7. **Shop Drawings and Samples:**
   a. Record date of receipt of Samples and Contractor-approved Shop Drawings.
   b. Receive Samples that are furnished at the Site by Contractor, and notify Engineer of availability of Samples for examination.
   c. Advise Engineer and Contractor of the commencement of any portion of the Work requiring a Shop Drawing or Sample submittal, if RPR believes that the submittalhas not been received from Contractor, or has not been approved by Contractor orEngineer.

8. **Proposed Modifications:** Consider and evaluate Contractor's suggestions for modifications to the Drawings or Specifications, and report such suggestions, together with RPR's recommendations, if any, to Engineer. Transmit Engineer's response (if any) to such suggestions to Contractor.

9. **Review of Work; Defective Work:**
   a. Report to Engineer whenever RPR believes that any part of the Work is defective under the terms and standards set forth in the Construction Contract Documents, and provide recommendations as to whether such Work should be corrected, removed and replaced, or accepted as provided in the Construction Contract Documents.
   b. Inform Engineer of any Work that RPR believes is not defective under the terms and standards set forth in the Construction Contract Documents, but is nonetheless not
   c. compatible with the design concept of the completed Project as a functioning whole, and provide recommendations to Engineer for addressing such

Work. ; and

d. Advise Engineer of that part of the Work that RPR believes should be uncovered for observation, or requires special testing, inspection, or approval.

10. Inspections, Tests, and System Start-ups:

a. Consult with Engineer in advance of scheduled inspections, tests, and systems startups.

b. Verify that tests, equipment, and systems start-ups and operating and maintenance training are conducted in the presence of appropriate Owner's personnel, and that Contractor maintains adequate records thereof.

c. Observe, record, and report to Engineer appropriate details relative to the test procedures and systems start-ups.

d. Observe whether Contractor has arranged for inspections required by Laws Regulations, including but not limited to those to be performed by public or other agencies having jurisdiction over the Work.

e. Accompany visiting inspectors representing public or other agencies having jurisdiction over the Work, record the results of these inspections, and report to Engineer.

11. Records:

a. Maintain at the Site orderly files for correspondence, reports of job conferences, copies of Construction Contract Documents including all Change Orders, Field Orders, Work Change Directives, Addenda, additional Drawings issued subsequent to the execution of the Construction Contract, RFIs, Engineer's clarifications and interpretations of the Construction Contract Documents, progress reports, approved Shop Drawing and Sample submittals, and other Project-related documents.

b. Prepare a daily report or keep a diary or log book, recording Contractor's hours on the Site, Subcontractors present at the Site, weather conditions, data relative to questions of Change Orders, Field Orders, Work Change Directives, or changed conditions, Site visitors, deliveries of equipment or materials, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures; and send copies to Engineer.

c. Upon request from Owner to Engineer, photograph or video Work in progress or Site conditions.

d. Record and maintain accurate, up-to-date lists of the names, addresses, fax numbers, e-mail addresses, websites, and telephone numbers (including mobile numbers) of all Contractors, Subcontractors, and major Suppliers of materials and equipment.

e. Maintain records for use in preparing Project documentation.

f. Upon completion of the Work, furnish original set of all RPR Project documentation to Engineer.

12. Reports:

a. Furnish to Engineer periodic reports as required of progress of the Work and of Contractor's compliance with the progress schedule and schedule of Shop Drawing and Sample submittals.

b. Draft and recommend to Engineer proposed Change Orders, Work Change Directives, and Field Orders. Obtain backup material from Contractor.

c. Furnish to Engineer and Owner copies of all inspection, test, and system start-up reports.

d. Immediately inform Engineer of the occurrence of any Site accidents, emergencies, acts of God endangering the Work, possible force majeure or delay events, damage to property by fire or other causes, or the discovery of any potential differing site condition or Constituent of Concern.

13. Payment Requests: Review applications for payment with Contractor for compliance with the established procedure for their submission and forward with recommendations to Engineer, noting particularly the relationship of the payment requested to the schedule of values, Work completed, and materials and equipment delivered at the Site but not incorporated in the Work.

14. Certificates, Operation and Maintenance Manuals: During the course of the Work, verify that materials and equipment certificates, operation and maintenance manuals and other data required by the Contract Documents to be assembled and furnished by Contractor are applicable to the items actually installed and in accordance with the Contract Documents, and have these documents delivered to Engineer for review and forwarding to Owner prior to payment for that part of the Work.

15. American Iron and Steel Requirements: The RPR is to assist the Engineer in implementing the Engineer's

Responsibilities for project compliance with the USDA RUS American Iron and Steel Requirements. The RPR typically is responsible for field identification and photo documenting domestic iron and steel products used in the project. The RPR may also be requested to maintain a log of manufacturer's certifications.

16. Completion:

a. Participate in Engineer's visits to the Site regarding Substantial Completion, assist in the determination of Substantial Completion, and prior to the issuance of a Certificate of Substantial Completion submit a punch list of observed items requiring completion or correction.

b. Participate in Engineer's visit to the Site in the company of Owner and Contractor, to determine completion of the Work, and prepare a final punch list of items to be completed or corrected by Contractor.

c. Observe whether all items on the final punch list have been completed or corrected, and make recommendations to Engineer concerning acceptance and issuance of the Notice of Acceptability of the Work

D. Resident Project Representative shall not:

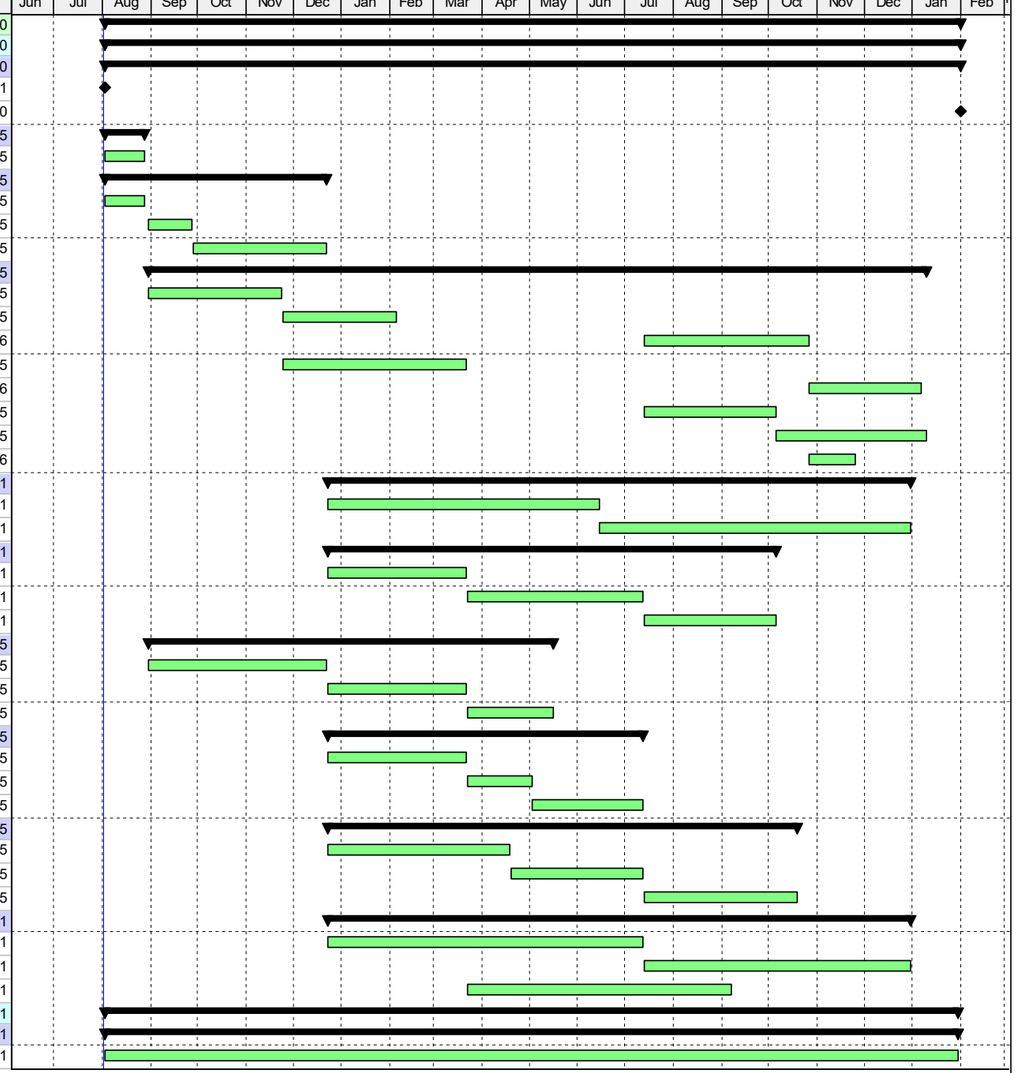
1. Authorize any deviation from the Construction Contract Documents or substitution of materials or equipment (including "or-equal" items).
2. Exceed limitations of Engineer's authority as set forth in this Agreement
3. Undertake any of the responsibilities of Contractor, Subcontractors, or Suppliers, or any Constructor.
4. Advise on, issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences or procedures of the Work, by Contractor or any other Constructor.
5. Advise on, issue directions regarding, or assume control over security or safety practices, precautions, and programs in connection with the activities or operations of Owner or Contractor.
6. Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by Engineer.
7. Accept Shop Drawing or Sample submittals from anyone other than Contractor.
8. Authorize Owner to occupy the Project in whole or in part.

KJ's Availability and Flexibility to Support Your Preliminary Project Schedule

KJ's envisioned preconstruction and construction schedule is provided on the following pages in this section. As shown on the following overview preliminary construction schedule, this is one potential way that the construction contractor may build the contractor's approved baseline schedule. **Furthermore, we understand how schedules typically change and we are prepared to accommodate changes to the schedule that are mutually agreed upon.** Construction phase critical path activities start with contractor mobilization and submittal preparation/approval.

Tuolumne Utilities District Sonora Wastewater Treatment Facilities Project | TUD Sonora Wastewater Treatment Facility | 07-Jan-21 07:17

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
Project: Tuolumne Utilities District Sonora Wastewater Treatment Facilities Project		381	02-Aug-21	01-Feb-23	0
WBS: Construction Phase		381	02-Aug-21	01-Feb-23	0
WBS: 005 - Project Milestones		548	02-Aug-21	01-Feb-23	0
005-005	Construction Contractor NTP (08/02/2021)	0	02-Aug-21*		1
005-010	Construction Contractor Completion (02/01/2023)	0		01-Feb-23*	0
WBS: 010- Mobilization		20	02-Aug-21	27-Aug-21	95
010-005	Mobilization	20	02-Aug-21	27-Aug-21	95
WBS: 015- Submittals/Procurement		100	02-Aug-21	22-Dec-21	15
015-005	Prepare/Submit Shop Drawings	20	02-Aug-21	27-Aug-21	15
015-010	Review/Approve Shop Drawings	20	30-Aug-21	27-Sep-21	15
015-015	Fabricate/Deliver Materials and Equipment	60	28-Sep-21	22-Dec-21	15
WBS: 020- Demolition/Yard Piping /Sitework		346	30-Aug-21	09-Jan-23	15
020-005	Renovate Sludge Drying Beds	60	30-Aug-21	23-Nov-21	155
020-010	Renovate Sludge Digestion Equipment	50	24-Nov-21	04-Feb-22	185
020-015	Construct South Splitter Box	75	13-Jul-22	26-Oct-22	16
020-020	Construct North Splitter Structure/Pump Station	80	24-Nov-21	21-Mar-22	155
020-025	Site Yard Piping	50	27-Oct-22	06-Jan-23	16
020-030	Site Electrical Ductbanks	60	13-Jul-22	05-Oct-22	15
020-035	Site Grading/Paving/Restoration/Demobilization	66	06-Oct-22	09-Jan-23	15
020-040	Connect Effluent Piping to Distribution	20	27-Oct-22	25-Nov-22	46
WBS: 025- Headworks		260	23-Dec-21	30-Dec-22	21
025-005	Construct Septage Receiving Facilities	120	23-Dec-21	14-Jun-22	21
025-010	Construct Headworks Screening/Grit Removal Facilities	140	15-Jun-22	30-Dec-22	21
WBS: 030- Extended Aeration Activated Sludge System		200	23-Dec-21	05-Oct-22	81
030-005	Excavate/Concrete Slab and Walls	60	23-Dec-21	21-Mar-22	81
030-010	Install Mechanical Equipment	80	22-Mar-22	12-Jul-22	81
030-015	Electrical/Instrumentation Installation	60	13-Jul-22	05-Oct-22	81
WBS: 035- Secondary Clarifiers		180	30-Aug-21	16-May-22	115
035-005	Excavate/Concrete Slab and Walls	80	30-Aug-21	22-Dec-21	115
035-010	Collector/Weirs/Gates/Misc Metals	60	23-Dec-21	21-Mar-22	115
035-015	Electrical/Instrumentation Installation	40	22-Mar-22	16-May-22	115
WBS: 040- Filters/Disinfection		140	23-Dec-21	12-Jul-22	15
040-005	Excavate/Concrete Slab/Walls/Deck	60	23-Dec-21	21-Mar-22	15
040-010	Install Mechanical Equipment	30	22-Mar-22	02-May-22	15
040-015	Electrical/Instrumentation Installation	50	03-May-22	12-Jul-22	15
WBS: 045-Solids Improvements		210	23-Dec-21	19-Oct-22	15
045-005	Excavate/Concrete Slab/Walls/Deck	80	23-Dec-21	18-Apr-22	15
045-010	Install Mechanical Equipment	60	19-Apr-22	12-Jul-22	15
045-015	Electrical/Instrumentation Installation	70	13-Jul-22	19-Oct-22	15
WBS: 050-Buildings		260	23-Dec-21	30-Dec-22	21
050-005	Construct Admin, Blower and Electrical Building (Bldg A)	140	23-Dec-21	12-Jul-22	21
050-010	Construct Biosolids Building (Bldg B)	120	13-Jul-22	30-Dec-22	21
050-015	Construct Digester Building (Bldg C)	120	22-Mar-22	07-Sep-22	101
WBS: Representative Project Representative Staffing		380	02-Aug-21	30-Jan-23	1
WBS: 085- Resident Project Representative Services Staffing (Construction)		380	02-Aug-21	30-Jan-23	1
085-005	Resident Project Representative	380	02-Aug-21	30-Jan-23	1



Remaining Level of Effort ◆ Milestone
Actual Level of Effort Summary
Actual Work
Remaining Work
Critical Remaining Work

Tuolumne Utilities District
Sonora Wastewater Treatment Facilities Project

Construction/RPR Staffing Schedule

Kennedy Jenks

Tuolumne Utilities District

Resident Project Representative

RESIDENT PROJECT REPRESENTATIVE

Local RPR With Success Delivering Similar Projects Promotes Collaboration, Efficiency, and Quality

The most effective tool for maintaining project schedule and budget is a leader who promotes collaboration and open communication, and brings an understanding of the treatment operations and a fresh perspective to the project.

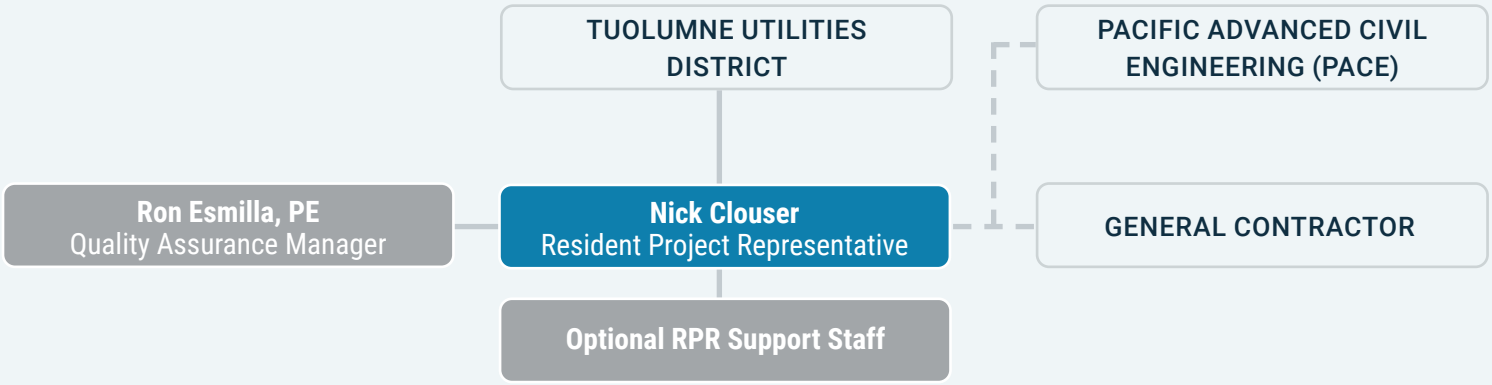
KJ offers a deep bench or resources to mobilize the best people to meet the needs of the District. With over 30 CM's in the region, eight of them from the surrounding area of Sonora. RPR will be backed by local California staff and has the support of the entire firm in facilitating staff transitions that may arise.

Our extensive technical expertise is backed by a history of efficient project execution and commitment to meeting your needs. On the following page, we have provided Nick Clouser's resume, our proposed RPR.

Our Firm

101 Years of Project Delivery. KJ is proud of our 100-year history as an employee-owned firm with over 400 staff, including engineers and scientists, across 13 states. We are an award-winning firm with an earned reputation for delivering value added, innovative construction management, engineering and scientific services and to help clients achieve their goals. We offer our clients Project Representative expertise in water, wastewater, and stormwater infrastructure.

Organizational Chart



Nick Clouser

Resident Project Representative

Over 25 Years of Resident Project Representative Experience

PROFESSIONAL SUMMARY

Nick has extensive experience in water and wastewater projects in roles ranging from Resident Project Representative, Quality Manager, Project Engineer, Project Superintendent, and Site Safety Manager. He has experience working as a Construction Manager, QA/QC Manager, specialized welding inspector and NDE inspector with a strong background in **construction coordination, construction inspection and quality management, communication skills, building a high performing team, problem solving, contract administration, delivering project design management, program management, schedule management, claims management, asset management and $70M in totla project value.** Nick also possesses a strong working knowledge of applicable codes such as; ASME, NBIC, API, AWS D1.1, AWWA, CBC, ICBO, FEMMA guidelines, and OSHA regulations.

YEARS OF EXPERIENCE

25 Years

REGISTRATIONS/ LICENSES/ CERTIFICATIONS

API 570 Piping Inspector (#45071)

AWS Certified Welding Inspector (#00110481)

Structural and Bridge WPS

Liquid Penetrant Level II

Construction Materials Testing and Inspection

OSHA 10hr. Construction Safety Training

OSHA 30hr. Construction Safety Training

TWIC

PROJECT EXPERIENCE

$8M, Newman-CR6 Compliance Construction Management Services, City of Newman | Construction Manager

KJ is working with the City of Newman as owner's representative for construction management, oversight and testing support services and engineering services. Details of the Cr6 Compliance Water System Project consists of a new Well 10 well pump system, a disinfection system, water storage tank, booster pump station, onsite drain basin, standby generator, electrical controls and instrumentation, water transmission mains, water distribution pipelines (with water services), and site improvements.

Projects Performed While With a Previous Firm

Various Projects, Worley | Construction Manager

Responsibilities included ensuring that all MPO projects are executed to the Client specifications while not exceeding the budgeted cost and meeting the construction schedule end date. This is accomplished by providing constructability insight during all phases of the project from the Select phase though the Define phase regarding safety requirements, quality standards, scheduling, cost impact, contractor manpower as it relates to the open market conditions as well as the specific project need, and County / State permitting and inspection requirements. Responsibilities during the Execute phase of the construction include managing a team of eight construction coordinators and overseeing 8-10 different contractors that are executing the work. This was accomplished by organizing independent weekly meetings with the Contractors lead supervisors to address scheduling updates and critical path activities, estimated weekly burn rates against issued purchase orders, material receiving issues and concerns, pending request for information (RFI), status and change order verification as well as performing "look-aheads" to ensure that work can continue unobstructed. Managed 5-7 different projects at any given time with an annual program spend of $70-120 million. Scope of projects executed include piping (process, chemical, and water) mechanical (pressure vessels, pumps, and motors) civil, structural, electrical and instrumentation.

Various Projects, Nor-Cal Construction | Construction Manager

Responsible for scheduling all phases of the construction process including permits, licenses, activities of all subcontracted trades on site, special inspections, and City and County inspections. Responsibilities also included the tracking and/or creating of all construction related documents including RFI's, submittals, change orders, engineer approved sketches, engineering daily reports, job permits, inspection reports, and subcontracted trade contracts. Duties included the scheduling of deliveries to the job site, creating and maintaining the project schedule. Focus on working with subcontractors, engineers, architects, and Special Inspectors to achieve completion of the projects in a timely manner. Responsible for the documentation and verification of all man hours worked on the job site by subcontracted trades and signing of job site work orders.

Corporate Director of Quality, Performance Mechanical, Inc | QA/QC

As the Corporate Director of Quality, responsibilities included ensuring that all PMI projects adhere to the Corporate QA/QC Manual as well as Client specifications and all applicable Code requirements. Managed three regions each with multiple QC Project Managers (numbers very based on work scope and project demand). Responsible for qualifying, writing, and reviewing all company welding procedures and procedure qualification records (WPS's/PQR's) in accordance with applicable Codes (ASME/API/AWS), staffing all projects with appropriate (discipline specific) QC Managers and staff, writing and review of all project specific QC plans, client specification review, QA documentation turnover packages from mechanical complete through commissioning, and assisting the estimating group during the bid and review process to ensure that all Quality issues are noted and priced accordingly (inspection/NDE/QC staffing). Reported directly to the CEO.

Various Projects, Babcock and Wilcox Construction, Co. | QA/QC Manager

Area Quality Control Manager for new construction and repair work in major power plants and refineries in the continental US, working in conjunction with Project Superintendents to maximize work output and troubleshooting of any scheduling problems. Responsible for establishing and enforcing a Quality Control Program that provided a productive welding program while meeting the requirements of job specifications and related codes as required in the refining, power and electric industry. Responsible for visual inspection of weld joint preparation and final weld inspection, scheduling of NDT inspections and supervision of NDT inspectors, logging and tracking of all completed welds and inspections, testing and certification of all project welders, tracking of job materials and CMTR's.

Tuolumne Utilities District

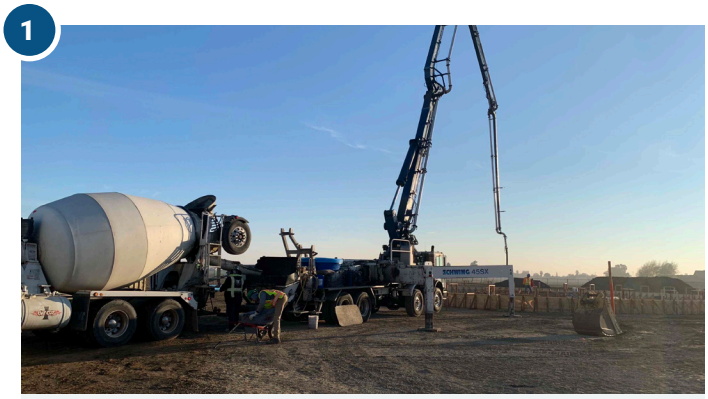
Relevant Project Experience

Broad Resident Project Representative Experience

Our wet infrastructure RPR experience over the past century has prepared us to face any situation which may arise and in the end will prove invaluable in staying on schedule and within budget.

With **over 3,700 CM projects having been completed,** KJ's experience with wastewater construction management and inspection services is extensive. Our proven performance on these contracts provides the District with confidence that our RPR and support staff will provide the construction management services to successfully complete the proposed the District project. **Details on the four featured projects shown are included on the following pages.**

1



$8M
project value

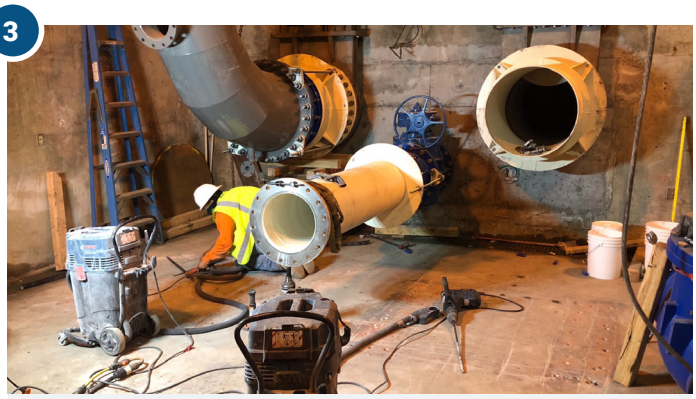
Hexavalent Chromium (Cr6) Compliance Water System Project
City of Newman, CA

2

$50M
project value

Water Quality Control Plant Wet Weather and Digester Improvements Project
City of South San Francisco, CA

3



$89M
project value

Clean Water Program CM
City of San Mateo, CA

4

$13M
project value

Wastewater Treatment Plant Rehbilitation CM
Rosamond Community Services District, CA

1

Benefit to Client

Construction of Central Valley complex municipal multi-element wet infrastructure project while maintaining water delivery service.

Hexavalent Chromium (Cr6) Compliance Water System Project - Construction Management Services

City of Newman, CA

KJ is working with the City of Newman as owner's representative for construction management, oversight and testing support services and engineering services. Details of the Cr6 Compliance Water System Project consists of a new Well 10 well pump system, a disinfection system, water storage tank, booster pump station, onsite drain basin, standby generator, electrical controls and instrumentation, water transmission mains, water distribution pipelines (with water services), and site improvements.

SIMILAR PROJECT CHALLENGES TO YOUR PROJECT

- Tanks with complex piping and mechanical equipment built adjacent to existing facilities
- Mechanical, structural, electrical, and instrumentation connections
- Perform piping tie-ins properly
- Ensure accurate record drawings
- Maintenance of plant operation (MOPO) connections
- Quality pipeline installations while protecting existing piping and duct banks
- Construction without disruption
- Traffic control/maintain safe access
- Interface with Authorities having Jurisdiction

Project Value

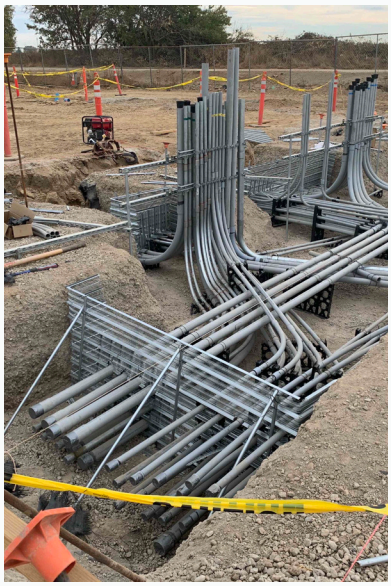
$8M

Construction Duration

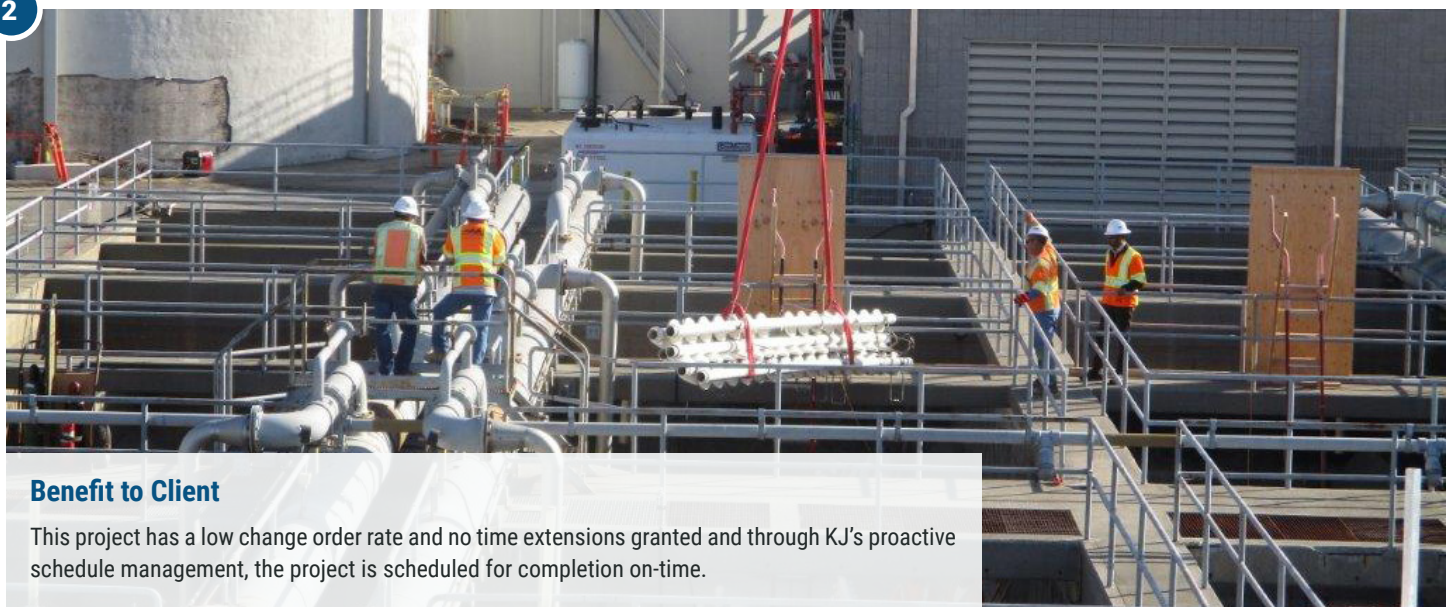
May 2020 - June 2021

Project Reference

City of Newman
Kathryn Reyes, Director of Public Works
kreyes@cityofnewman.com
(209) 862-4448



2



Benefit to Client

This project has a low change order rate and no time extensions granted and through KJ's proactive schedule management, the project is scheduled for completion on-time.

Water Quality Control Plant Wet Weather and Digester Improvements Project - Preconstruction and Construction Management Services

City of South San Francisco, CA

The KJ CM team was selected to perform preconstruction and construction phase services for the $50M WQCP Wet Weather and Digester Improvements that included a constructability review, biddability review, operability review and input on construction sequencing/cost. The first task was to perform a constructability review of the 95% design submittal. The KJ CM team provided a multidisciplinary team to review the plans, specifications and cost estimate.

Project facilities include rehabilitation and improvements to the aeration basins, a new secondary clarifier and anaerobic digester, demolition of an existing digester and digester control building, rehabilitation of an existing digester and control buildings, influent screen bypass, two storm water pump stations, return actuated sludge pump station improvements, yard piping and other improvements.

SIMILAR PROJECT CHALLENGES TO YOUR PROJECT

- Working on a constrained site
- Demolition work sequenced after new construction complete
- Maintenance of plant operation
- Continued access to Owner facilities during construction
- Potential for encountering unanticipated subsurface geotechnical conditions
- Permitting constraints

Project Value

$50M

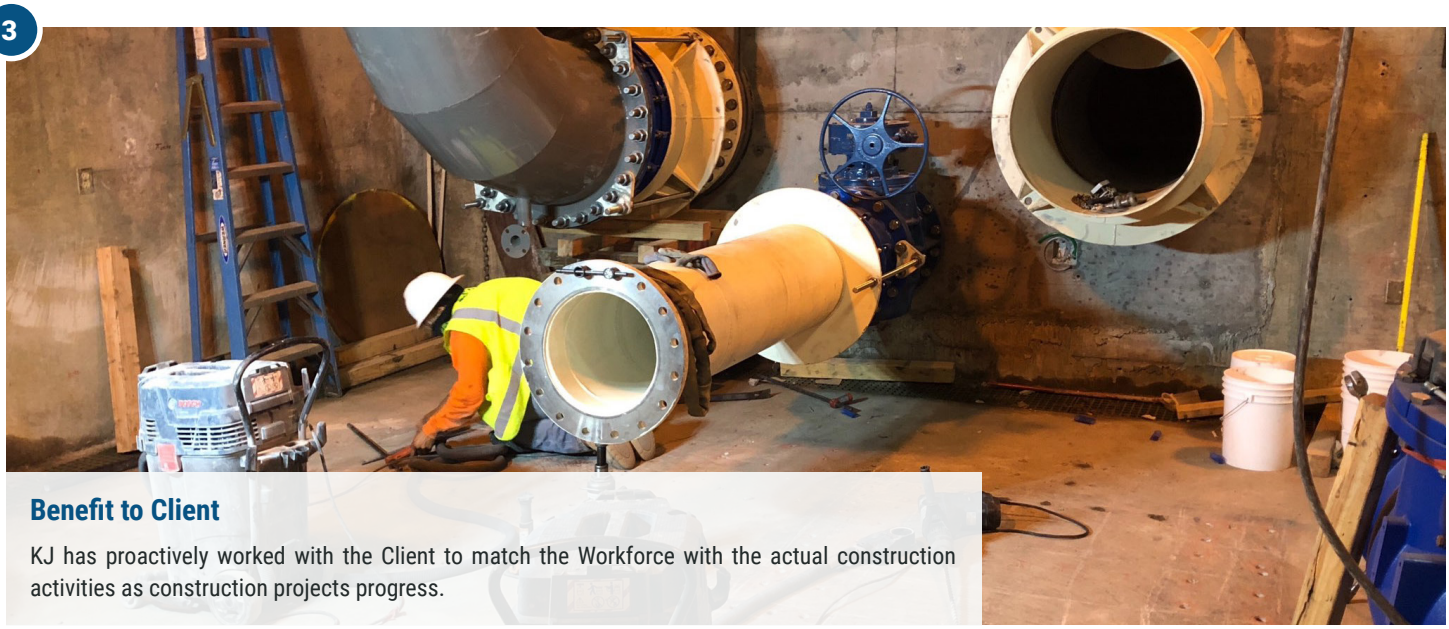
Construction Duration

September 2018 - November 2021

Project Reference

City of South San Francisco
Brian Schumaker, Plant Superintendent
Brian.Schumaker@ssf.net
(650) 829-3844

3



Benefit to Client

KJ has proactively worked with the Client to match the Workforce with the actual construction activities as construction projects progress.

Clean Water Program - Construction Management Services

City of San Mateo, CA

As a subconsultant to the Program Manager, the KJ CM team provided constructability and CM (Contract Administration and inspection) support services for the collection system portion of the $950M City of San Mateo Clean Water Program. Located on the western shoreline of San Francisco Bay, project elements include replacing, up-sizing or rehabilitating 260 miles of pipelines ranging from 6”- 39” in diameter and upgrading 24 sanitary sewer lift and pump stations. A 5MG buried reinforced concrete wet weather storage basin and pump station will also be built.

SIMILAR PROJECT CHALLENGES TO YOUR PROJECT

- Tanks with complex piping and mechanical equipment built adjacent to existing facilities
- Mechanical, structural, electrical, and instrumentation connections
- Perform piping tie-ins properly
- Ensure accurate record drawings
- Maintenance of plant operation (MOPO) connections
- Quality pipeline installations while protecting existing piping and duct banks
- Construction without disruption
- Traffic control/maintain safe access
- Interface with Authorities having Jurisdiction

Project Value

$89M

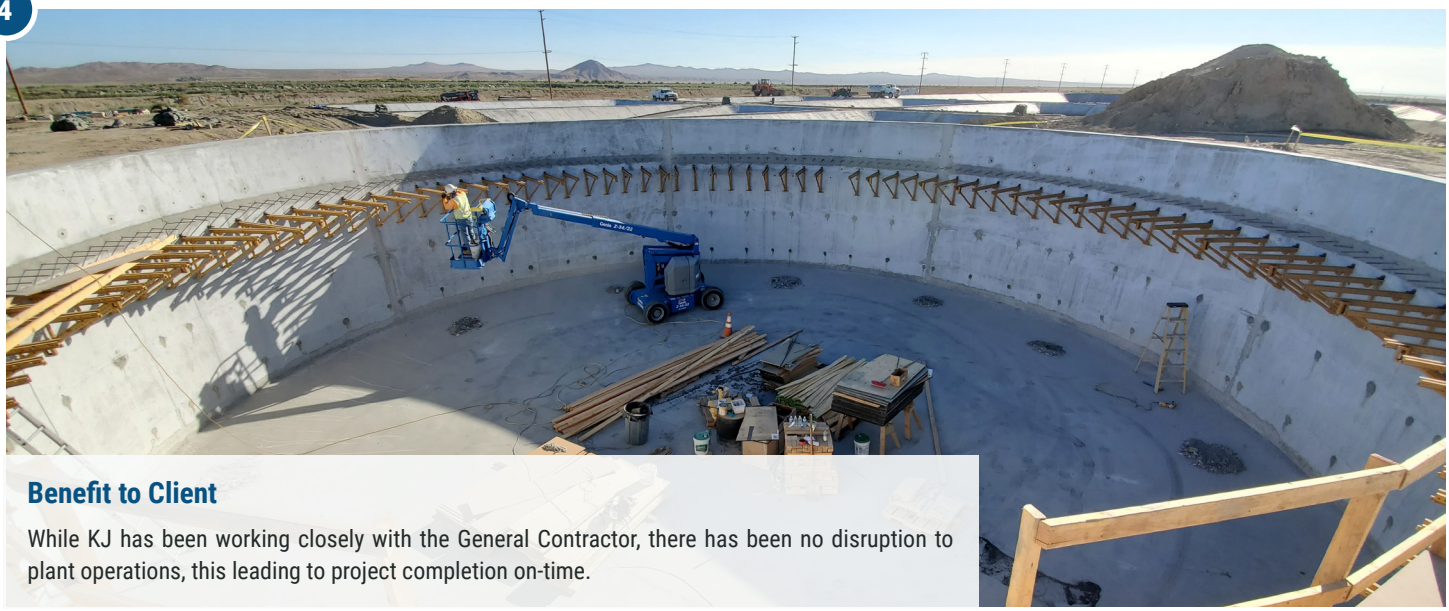
Construction Duration

January 2019 - October 2020

Project Reference

City of San Mateo
Tom Williams, PE, Senior Civil Engineer
Twilliams@cityofsanmateo.org
(650) 522-7307

4



Benefit to Client

While KJ has been working closely with the General Contractor, there has been no disruption to plant operations, this leading to project completion on-time.

Wastewater Treatment Plant Rehabiliation - Preconstruction and Construction Management Services

Rosamond Community Services District, CA

The KJ CM team provided preconstruction phase services (including constructability review) and is currently providing CM field services including Project Management, CM Services, and Inspection Services for the $13.2M existing wastewater treatment plant expansion for the Rosamond Community Services District. The 17-month project contains existing treatment expansions to its Aeration Bain, Secondary Clarifier, overflow and percolation ponds, sludge drying beds, blower, chemical facilities, sludge/scum pumping stations, MCC/ Generator Building, as well as site yard piping/electrical/grading improvements.

SIMILAR PROJECT CHALLENGES TO YOUR PROJECT

- Large reinforced concrete hydraulic structures with complex piping and mechanical equipment built adjacent to existing facilities
- Reliable pump, mixer and diffuser installation
- Perform piping tie-ins properly
- Ensure accurate record drawings
- Maintenance of plant operation (MOPO) and NPDES permit and project schedule compliance while existing plant remains in operation
- Demolition, new walls, primary effluent and air piping and diffuser, baffle walls, gates, mixers, grating and handrailing installation
- Reliable pump, piping, and valve installation
- Quality pipeline installations while protecting existing piping and duct banks
- Construction without disruption
- Traffic control/maintain safe access

Project Value

$13M

Construction Duration

October 2019 - June 2021

Project Reference

Rosamond Community Services District
Brach Smith, Public Works Manager
Bsmith@rosamondcsd.com
(661) 256-3411

Tuolumne Utilities District

References

Resident Project Representative References

The best demonstration of our commitment to the success of our clients is first-hand testimonial. Presented in this section is our unique California Construction Management client reference contact information. What you will learn when checking our references is a consistent theme of timely project execution as a result of good communication, careful planning and diligent monitoring. We encourage you to contact any of these references to learn more about our team's success in delivering excellence to our clients.

Nick Clouser - RPR References

1. City of Newman
   Kathryn Reyes, Director of Public Works
   kreyes@cityofnewman.com
   (209) 862-4448

2. PBF Refinery Marinez
   Don Cagle, Construction Manager
   d.cagle@pbfenergy.com
   (925) 783-7215

3. Bakersfield Renewable Fuels, LLC
   Ryan Doyel, Inspection Manager
   ryan.doyel@bkrenewablefuels.com
   (707) 718-5164

Tuolumne Utilities District

Addendum Acknowledgment

12/04/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.1

PROJECT: Resident Project Representative Services for the Sonora Wastewater Treatment Facility

TO: All Planholders

FROM: Tuolumne Utilities District

PROPOSAL DATE: Unchanged

Notice is hereby given to prospective proposers that the Proposal Documents for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility have been modified as hereinafter set forth. This Addendum No.1 shall form a part of the Proposal Documents and takes precedence over the original Proposal Documents.

The following revisions, additions, replacements, clarifications, or deletions shall be made to the Contract Documents:

REPLACEMENT: Exhibits C & D
The attached Exhibits C & D dated 12/04/2020 shall replace Exhibits C & D of the original proposal documents.

CLARIFICATION: Exhibit C, Federal Requirements
Compliance with all Federal Requirements listed in Exhibit C must be adhered to in order to be considered an eligible proposer.

Proposers shall acknowledge receipt of Addendum No.1 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer

I acknowledge receipt of Addendum No.1.

Signed _____
Proposer
Spencer Archer, PE, BCEE
Principal-in-Charge

Ron Esmilla, PE
Project Manager

12/30/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.2

PROJECT: Resident Project Representative Services for the Sonora Wastewater Treatment Facility
TO: All Planholders
FROM: Tuolumne Utilities District
PROPOSAL DATE: Unchanged

Notice is hereby given to prospective proposers that the Proposal Documents for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility have been modified as hereinafter set forth. This Addendum No.2 shall form a part of the Proposal Documents and takes precedence over the original Proposal Documents.

The following revisions, additions, replacements, clarifications, or deletions shall be made to the Contract Documents:

CLARIFICATION: Project Scope

The Resident Project Representative (RPR) shall act as an Inspector for the District and a liaison between the Engineer and the Contractor. The District will be providing a Construction Manager for the project that will be responsible for record keeping, processing pay requests, communications, etc. The RPR *is not* a Construction Manager nor shall he/she be responsible for tasks typically conducted by a Construction Manager. Any required special inspections will be coordinated by the project Engineer and are not the responsibility of the RPR. The RPR shall be present at all special inspections.

It is the District's intention to hire a firm which uses the same person for the Inspector throughout the duration of the project. The Inspector may utilize office support staff for some documentation; however, all daily logs shall be record by himself/herself. Please read Exhibit D-Services of the Resident Project Representative in the Request for Proposal very carefully.

Attached to this addendum is a plan view of the overall project site, the hydraulic profile of the project and a process flow diagram to help proposers better understand the breadth of the project.

Proposers shall acknowledge receipt of Addendum No.2 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer
Tuolumne Utilities District

I acknowledge receipt of Addendum No.2.

Signed _____
Proposer Signature

Spencer Archer, PE, BCEE
Principal-in-Charge

Ron Esmilla, PE
Project Manager

Tuolumne Utilities District

Appendix A

APPENDIX A : OPTIONAL SCOPE OF WORK

Scope of Services

As an extension and support of the District, preconstruction and construction phase efforts, KJ can provide optional services, including: a constructability review, construction management and additional inspection services as described in the following sections. Scope shall include preconstruction and construction phase services within the times shown on attached schedule Preconstruction services shall begin in February 2021 and complete by April 2021. Construction phase services shall begin in August 2021 and complete by February 2023 (18-month construction period).

Task 1 Constructability Review (Optional)

KJ shall conduct a constructability review of the construction contracts geotechnical report, prior to bid advertisement and provide written comments to the District identifying any constructability concerns for the District's consideration. The review shall identify key issues and challenges that can be eliminated with adjustments to the design, coordination items, safety concerns, risk, and identify challenging areas of the Project. KJ shall organize and conduct a constructability review meeting.

KJ will:

1. Become familiar with the site and the Contract Documents and perform an independent constructability review and evaluate potential claim risks.
2. Facilitate the constructability review with the District and the District's design consultant.
3. Prepare a constructability review written report (this may include redline markups of the project plans and specifications). The design document constructability review will check:
    a. clarity, consistency, completeness, and the ease of construction to facilitate the achievement of overall project objectives.
    b. interfaces and potential interfaces between adjacent contracts/facilities.
    c. observed omissions, and inconsistencies among the contract requirements.
    d. vagueness and ambiguities to minimize change orders.
    e. specific schedule requirements, including sequence of construction, phasing/phase transitions, milestones, funding requirements, and overall project duration, including impact of equipment lead times and storage requirements to help ensure coordination and prevent interruptions to existing operations.
    f. Engineer's opinion of probable construction cost for completeness and accuracy, and considering market conditions.
    g. Site constraints regarding implementation of the project.
    h. Plant shutdowns, tie-ins, and interim operations (piping, electrical, other).
    i. Commissioning, start-up, testing, and training activities.
    j. List of anticipated submittals that contractor will submit during construction phase
4. Organize and conduct a constructability review meeting with the District and the District's design consultant. If applicable, make recommendations for the use of more cost-effective alternative materials or design concepts.

Task 2 Construction Management (Optional)

KJ shall provide construction management services to support the Districts CM in order to manage and expedite completion of the construction project within schedule and budget, and to the quality standards described in the project specifications.

1. **Correspondence Processing/Coordination**
    a. Oversee and ensure that all measures of the specific project's scope of services are completed in a timely and professional manner with an emphasis on providing the District with a high-quality project.
    b. Coordinate project activities with Contractor, the District staff, designer, utility companies, and other parties as required.
    c. Coordinate with the District Project Manager to ensure timely completion/approvals in response to all Requests for Information (RFI), shop drawings, product data samples, submittals, and Change Orders, utilizing document control management software, Procore.

d. Maintain logs of requests for information, submittals, plan clarifications, claims, proposed change orders, final change orders. Maintain all documents generated for the project including daily reports, requests for information, submittals, transmittals, O & M Manuals, warranties, etc. Ensure the District Staff receives copies of these documents in a on-time

e. Establish and maintain project controls and provide administrative, management, and related services necessary to coordinate the work of the Contractor and all subcontractors in order to facilitate timely completion of the project in accordance with contract documents and the District objectives.

f. Review and approve Contractor's monthly progress report and payment request.

g. Provide status updates to the District on significant issues as they arise.

h. Provide any contract administration documentation required by the District, State, or Federal authorities.

i. Support the District Project Manager pre-construction conference with the Contractor and stakeholders including preparation of meeting agenda and minutes; and distribute to applicable entities.

j. Support the District PM weekly progress meetings (regularly scheduled or otherwise) with Contractor and the District staff. Prepare agenda and minutes.

k. Coordinate testing and startup including efforts by Contractor, manufacturers, and the District staff.

ASSUMPTIONS

» KJ will obtain document control system (Procore) access that will be utilized by the District, Engineer, Contractor and COM throughout the construction phase.

» KJ will participate in coordination meeting between the District and Engineer to establish submittal, RFI and other time sensitive responses document sharing.

2. Change Order Management

a. Analyze requested change orders for validity, cost, and schedule impacts. Provide information to the District Engineer necessary to review the requested change order. the District Engineer shall be responsible for the consideration, negotiation and resolution of all requests for change orders. At the request of the District Engineer, draft and forward proposed change orders to the District Engineer using the District-provided change order format. the District staff will formally process, transfer draft change orders to the District letterhead, obtain signatures, and distribute accordingly.

3. Schedule Monitoring and Reviews

a. Conduct Schedule review of contractor's submitted baseline schedule. Meet with contractor and the District if needed to resolve any open items so that baseline schedule can be accepted.

b. Conduct monthly schedule update reviews as prerequisite for payment application processing.

c. Evaluate submitted time impact analysis and recovery schedule if contractor schedule falls behind the project completion dates and interim milestones.

4. Meetings

a. KJ will lead regularly scheduled construction progress meetings with the District, Engineer and Contractor. These progress meetings will be scheduled bi-weekly, at a minimum, throughout the duration of construction.

5. Monthly Progress Reports

KJ shall prepare monthly construction progress reports, as follows:

a. draft monthly construction progress report shall be submitted to the District no later than the 5th day following the end of the previous month with the finalized report completed no later than the 10th day of the month.

b. The monthly progress report shall include the following information, at a minimum:

- Cover Page with the Specification number, project name, report date, reporting period, and the report number.
- Construction progress narrative and backup that includes an executive summary, a summary construction completion status, percent complete, CM statistics, schedule status, financial status, and pending issues.
- Schedule status, including contract dates, milestone status, summary of

each milestone and a description of any potential or actual project delays and their cause(s).

- Financial status, including original contract amount, adjusted contract amount, payment amount authorized for the reporting period, amount paid to date, and contract balance.
- CM Statistics, including RFI's and submittals processed, days outstanding and other metrics
- Photos supporting the scope of work performed for the reporting month.

6. **Record Drawing Development and Documentation**
   a. KJ shall verify recorded field changes (including RFI responses) and corrections identified in the construction phase are appropriately identified on plan drawings and are properly captured in the final record drawings.
   b. KJ shall incorporate changes as they occur into a working field set of reproducible record drawings and provide these drawing mark-ups to the Engineer once substantial completion of construction has been achieved.

7. **Claims Support**
   a. KJ shall support the District with reviewing claims submitted by the Contractor.
   b. KJ shall review and document claim, as well as, make investigations to either substantiate or refute claim.
   c. KJ shall advise the District of methods and approaches for resolving claim and assist the District with negotiations to resolve claims.
   d. KJ shall evaluate claims for validity, cost, and schedule impacts. Provide information to the District necessary to review and resolve the claim. the District shall be responsible for the consideration, negotiation and resolution of all claims.
   e. If requested by the District, KJ shall draft responses to claims for review and approval by the District. the District staff will obtain final signatures and distribute responses to claims.

ASSUMPTIONS

» the District shall have final decision making on resolution of any submitted claims.

8. **Commissioning/ Startup Coordination and Support** Commissioning and testing shall demonstrate satisfactory operation of the facility, as well as individual equipment and systems. KJ shall coordinate the commissioning schedules, and associated testing and (staff) training activities, with the Contractor, the District and Engineer. KJ, the District, and Engineer shall witness all major process functional and control systems tests are successful. KJ shall document all commissioning activities and certify the project is complete and the facility is ready for service. After completion of all functional testing and staff training, the Engineer will assist the District with an operational test of the entire facility. A summary of commissioning activities and KJ involvement will include:
   a. Coordinate the development and early submittal of a detailed Commissioning Plan by the Contractor that provides the detailed step-by-step activities and designation of responsibilities.
   b. The Contractor shall prepare detailed start-up plans for all systems with input from KJ, the District, and Engineer. The plans will include performance test pass-fail criteria and data collection sheets.
   c. KJ shall review the Plan with the District and Engineer to ensure it includes a complete listing of components, systems, and tests, including: factory, functional, and performance tests that are in accordance with the approved Facility Operations and Control Strategy. Major elements of the Plan shall include testing of all mechanical equipment, hydrostatic testing of piping, electrical testing of specified equipment, instrumentation and controls testing, and equipment/systems performance testing.
   d. Facilitate sequencing and start-up meetings with the District, Contractor, equipment suppliers, and Subcontractors (includes a kick-off meeting and subsequent meetings to coordinate scheduling of events).
   e. Coordinate and host early planning meetings with the Contractor's SCADA Integrator and the District staff to ensure all contract provisions for integration

are correct and that a proper plan is in place for a seamless transition.

f. Interface between the District staff, equipment manufacturer representatives, specialists, integrators, and appropriate start-up technicians provided by the Contractor and its equipment suppliers.

g. Document each performance test in accordance with the Contract Documents.

h. Inform the Contractor of any failure of equipment, malfunctions, and/or deficiencies.

ASSUMPTIONS

» The District and Engineer shall provide the commissioning, startup coordination requirements in the construction contract documents to ensure that contractor accounts for the required information in their bid.

» the District and Engineer shall ensure that Facility Operations and Control Strategy requirements is included in the construction contract documents.

» Engineer shall review system performance data for conformance with contract document requirements.

9. Project Closeout Assistance

a. KJ will provide project closeout assistance to the District. This may include any remaining negotiations of claims and/or time extensions requested by the Contractor, coordinate the final punch list with the District and assist with resolution of final project issues.

ASSUMPTIONS

» Closeout assistance will occur within the three month period immediately preceding Contractor completion.

Task 3 Supplemental Field Inspection (Optional)

1. Limited Field Inspection

KJ will provide inspection services, as identified below, and shall coordinate with other inspection services either performed by the District or contracted directly by the District. The Contractor shall be responsible for scheduling inspection events through the District. KJ, prior to attending requested inspections, shall confirm with the District, the need for KJ's participation in the inspection.

KJ will provide the following inspection services including preparation of weekly statements of working days and maintain daily diaries including personnel and materials diaries:

- Specialty Electrical Inspection and 'Green Tag' Inspections
- Instrumentation and Control (I&C) Inspection

KJ inspection staff shall provide the following:

a. Verify contractor compliance with the plans, specifications, and other contractual requirements throughout the course of the work.

b. Review the plans and specifications prior to the start of construction.

c. Review shop drawings, materials samples, schedules, and other items submitted by the contractor.

d. Prepare and preserve a complete, accurate diary and inspection reports (daily and other).

e. Reject work which does not comply with contract requirements.

f. Issue notice to the contractor of deficiencies requiring correction.

g. Arrange and conduct the final inspection and prepare the punch list and monitor completion or correction of items on the List.

ASSUMPTIONS

» The District will contract separately to provide witness testing outside of the 100-mile radius for required materials/equipment.

» Construction survey and staking is the responsibility of the Contractor. the District will contract separately a survey firm to provide temporary benchmarks and control. KJ shall coordinate field activities with the Contractor and the District survey teams as-needed. This includes scheduling, observation onsite, and receiving and transmitting submittals as-needed.

» KJ shall provide inspection services to provide quality assurance that the work is being installed in accordance with the plans and specifications. Non-compliant work will be noted and transmitted to the contractor. Contractor is responsible for ensuring the contract compliance

» Inspection staff shall not direct the means/methods of the contractor, or be responsible for their safety program

Contact Information

Address:
2882 Prospect Park Drive, Suite 240
Rancho Cordova, CA 95670

Contact:
Spencer Archer
(805) 550-4050
SpencerArcher@kennedyjenks.com

Kennedy Jenks

Anchor QEA Proposal

January 2021

TUOLUMNE UTILITIES DISTRICT REQUEST FOR PROPOSAL

ANCHOR QEA

Resident Project Representative Services for the Sonora Wastewater Treatment Facility

Submitted by Anchor QEA

ANCHOR QEA

130 Battery Street, Suite 400
San Francisco, California 94111
415.230.0862

January 8, 2021

Tuolumne Utilities District
Attn: Jennifer L. Batt
18885 Nugget Boulevard
Sonora, California 95370

Re: Statement of Qualifications for Resident Project Representative Services for the Sonora Wastewater Treatment Facility

Dear Ms. Batt:

Anchor QEA, LLC, appreciates the opportunity to respond to the Tuolumne Utilities District's (District's) Request for Proposal, which seeks Resident Project Representative (RPR) Services for the Sonora Wastewater Treatment Facility (project). We understand the District's RPR must have exceptional organizational and interpersonal skills, as well as demonstrated experience balancing large-scale projects for a municipality, while maintaining the District's interest in a challenging construction environment. Anchor QEA has the precise skill set, credentials, and personnel to provide those services to the District.

Throughout our 23-year history, Anchor QEA staff have held key roles in some of the largest and most complex wastewater treatment and remediation projects in the nation. We value our collaborative teaming relationship with District staff and believe that our past experiences showcase our level of client service.

Anchor QEA Team Highlights

- More than 23 years of construction support, management, and design experience
- Construction Management Association of America chapter president and American Public Works Association chair of Construction Management Committee
- In-house engineering and field inspectors with experience in wastewater facility design
- Recent construction management experience with the District's Phoenix Lake Restoration and Preservation Project

Experienced, Consistent, and Dependable Project Representation

We are proud to offer a team that includes members of national and international construction management stature as well as local experience with the stakeholders. **Our proposed RPR, Zach Haggard, has more than 9 years of experience** in the construction industry, including more than 4 years dedicated to on-site inspections and construction management. He has demonstratable experience working with the District from the Phoenix Lake Restoration and Preservation Project, which was successfully implemented in 2020. Zach is committed to performing as the District's RPR for the duration of the 18-month (or more) construction.

Proven, Efficient Management Team

Zach would be supported **the project management team who led the Phoenix Lake project: Mike Roberts and Jaclyn Gnusti.** Mike is a Certified Construction Manager and the chapter president of the Construction Management Association of America. Throughout his 32-year career in construction management, he has worked on multimillion-dollar municipal projects, including wastewater and water treatment facilities. Our project manager, Jaclyn Gnusti, PE, has more than 22 years of construction experience for the public and private sectors. She was recently named the vice president of the board of

directors for the Bay Planning Coalition, which advocates for municipal and private industry interests in the San Francisco Bay Area.

Continued Partnership Through Unprecedented Times

Lastly, we recognize the current state and federal responses to COVID-19, as well as the unprecedented 2020 wildfire season, have had a tremendous impact on the District, both from an operations and fiscal standpoint. Our firm worked diligently throughout the Phoenix Lake contract to **ensure the District's project remained a priority, stayed on schedule, and is anticipated to conclude well under budget.** We consider ourselves partners with the District and want to help in any way that we can.

We appreciate the opportunity to submit this Statement of Qualifications. Both addenda have been received and considered; signed addenda are provided in Attachment 1. Should you have questions or wish to discuss any aspect of our submittal and qualifications, please feel free to contact us.

Sincerely,

Mike Roberts, PE, CCM, HMFIC, PSIA Level II
Principal-in-Charge
(206) 971-2685
mroberts@anchorqea.com

Jaclyn Gnusti, PE
Project Manager
(415) 361-5151
jgnusti@anchorqea.com

cc: Zach Haggard (via email zhaggard@anchorqea.com)

Table of Contents

INTRODUCTION

Anchor QEA is a nationally recognized engineering and environmental consulting firm specializing in environmental, water resource, and sediment management projects with distinct construction management capabilities. Founded in 1997, we now have 26 offices around the United States and more than 370 permanent employees. Our company works with both public and private sector clients on some of the most challenging projects in the nation, and our competed projects are among the most successful in the country. We **consistently apply our strong technical expertise and desire to help improve the environment to each project**, and we tailor our project approaches to each client's needs.

Dedicated Field Inspection Team

We understand that the Tuolumne Utilities District (District) is looking for a Resident Project Representative (RPR) during construction of the Sonora Wastewater Treatment Facility (project). Anchor QEA has a dedicated field inspection and construction management team with experience in **demolition, concrete placement, utility placement, stormwater facilities**, and other construction elements associated with this project.

As our proposed RPR, Zach Haggard will be the primary Anchor QEA staff member involved in this project. He is familiar with all aspects of construction safety, document control, communications, and budget and schedule management. He will be **available and committed for the entire 18-month (or more) construction duration**. Additionally, based on his daily site presence at the Phoenix Lake Restoration and Preservation Project, Zach is familiar with both the local Sonora area and District staff.

Wastewater Treatment Design Experience

Our firm has a deep bench of nationally recognized engineers with broad municipal project experience. This includes **management, planning, process engineering, design, and operations of municipal and industrial water and wastewater facilities** and power generation. Two of our engineers, Paul Doody and Emil Voges, are featured on our project team to support the RPR during construction on an as-needed basis. Paul and Emil will be available for pre-construction, construction, and post-construction tasks, including weekly progress meetings.

ACTIVE RESPONSE TO HEALTH AND SAFETY

Safe in the Field

In response to the global situation regarding COVID-19, we created a ***Field Program COVID-19 Management Plan***, which provides operational guidelines for field staff, including preventative measures prior to site work; case response and decontamination scenarios; and additional measures such as face coverings, physical distancing, handwashing, and disinfection of surfaces. We have been able to complete a significant amount of field work while protecting our employees with the implementation of these measures.

We also have a ***Field Program Wildfire Management Plan*** that provides information necessary to prepare and respond to a situation where wildfire smoke is a threat or actual wildfire is occurring.

Safe in the Office and Community

- We have a comprehensive plan for our offices—individual plans for reopened offices, as well as for locations that require plans to be in place regardless of the office being open or closed.
- We have partnered with WorkCare, a third-party Occupational Medicine provider, for screening employees at our offices and several work sites. Our Health and Safety and Human Resources teams are actively managing our company's response.

OUR "PLAYING IT SAFE" PROGRAM

The Playing It Safe program provides a way for everyone to share Health and Safety-related successes, document lessons learned, and record/ report Playing It Safe events by following the "Stop, Play, Record, and Rewind" process. All Playing It Safe events are learning experiences that can help others—with the goal of creating a safer workplace.

QUALITY

- We initiate QA/QC at the beginning of each project, following the procedures in our internal ***Quality Management Plan*** (QMP).
- Anchor QEA has prepared an external QMP in accordance with EPA Requirements for Quality Management Plans (EPA/240/B-01/002) that can be provided upon request.

RPR QUALIFICATIONS

We are proud to feature Zach Haggard as our RPR due to his extensive field experience and skillful approach with complex environmental and water resource projects. Zach has a strong background in **accurate reporting, compliance, safety, and diplomatic relations among divergent personalities**—key skills for the RPR role.

Zach Haggard
Resident Project Representative

Technical Experience Highlights

- **Experience:** Zach has more than 9 years of field experience, with more than 4 years dedicated to on-site inspections and construction management. Examples of recent, relevant example projects with client references are provided on page 3.
- **Building Materials:** Zach has an excellent understanding of civil material that will be part of the project (concrete, reinforcing, pipe systems, and soils).
  - **Bench Strength:** *Our technical experts and Principal-in-Charge—Paul Doody, Emil Voges, and Mike Roberts—can provide supplemental assistance as needed for piping systems, pumps, control systems, blowers, as well as general building materials to be incorporated. Prior to his professional career, Mike spent 10 years constructing multi-family and commercial buildings (including commissioning) and has worked on several wastewater and water treatment facilities.*
- **Construction Methods:** Zach has a strong understanding of heavy civil projects, and our team is highly experienced in construction methods, understanding how they affect the construction schedule.
  - **Bench Strength**: *Paul, Emil, and Mike will support Zach with the mechanical, electrical, plumbing, and building envelope and related systems. As demonstrated in Emil's resume, he has decades of experience in all phases of wastewater facilities.*
- **Plan and Specification Understanding**: Zach's comprehension of design plans and specifications can be attributed to his frequent assistance in the preparation of environmental and structural design documents for projects throughout California. He understands standard plan elements such as site layouts, callouts, scaling, material symbols, and reference notes, and he is well versed in interpreting specification language as it applies to design, schedule, and payment requirements.
- **Daily Reports and Computer Literacy:** Zach routinely provides detailed daily inspection reports and understands the importance of documenting field discussions and incidents in a manner to protect the client should schedule or budget negotiations later occur. He is also extremely computer literate in all standard forms of electronic communications such as Microsoft Word, Excel, and Project and the suite of Adobe software.
  - **Bench Strength:** *Our team is experienced in both Microsoft Project and Primavera project schedule—we can seamlessly evaluate the baseline schedule and track monthly changes. We can develop a variance report of any change. Additionally, if requested by the District, Anchor QEA can provide CAD and ArcGIS support services if spatial images are required for the District, engineer, or other stakeholder information.*
- **Communication:** Zach's communication style is clear and direct to avoid misunderstandings. He is also an exceptionally good listener and recognizes the importance of understanding all aspects of an issue.

- **Organization, Conflict Resolution, Problem Solving, and Recordkeeping:** Zach has been trained in file organization and record retentions by Certified Construction Project Managers, and he has a strength in conflict resolution and problem solving due to his naturally calm and respectful demeanor, straightforward and honest manner of communications, and abilities to balance the importance of design elements, project budget, and schedule constraints.
- **Municipal Project Experience:** Zach has worked for numerous municipalities, including Cities of Martinez, Brisbane, Pittsburg, and San Francisco; Ports of San Francisco, Stockton, and Richmond; Public districts, including the District, Contra Costa Water District, East Contra Costa Irrigation District, Montana-Dakota Utilities, and Public Works and Government Services Canada.

RPR REFERENCES

In accordance with the requirements of the Request for Proposal, three references for our RPR are provided below. Details about these projects are provided in Zach Haggard's resume in Attachment 2.

Project Name	Construction Duration	Project Value	Project Owner	Contact Information
Phoenix Lake Restoration and Preservation	3 months	$4.3 million	Tuolumne Utilities District	Gaddiel DeMattei, Project Manager (209) 532-5536, ext. 519 GDeMattei@tudwater.com
Oakland Harbor Maintenance Dredging	5 months	$16.7 million	Manson Construction	Line Chan, Project Manager (904) 400-2635 LChan@mansonconstruction.com
Lewis and Clark Station Bank Stabilization	5 months	$3.3 million	Montana-Dakota Utilities Co.	Kalle Godel, Senior Environmental Specialist (701) 222-7657 Kalle.Godel@mdu.com

Project Management Team

Mike Roberts and Jaclyn Gnusti will provide project management for our team so Zach can remain focused on RPR duties.

Mike Roberts, CCM
Principal-in-Charge

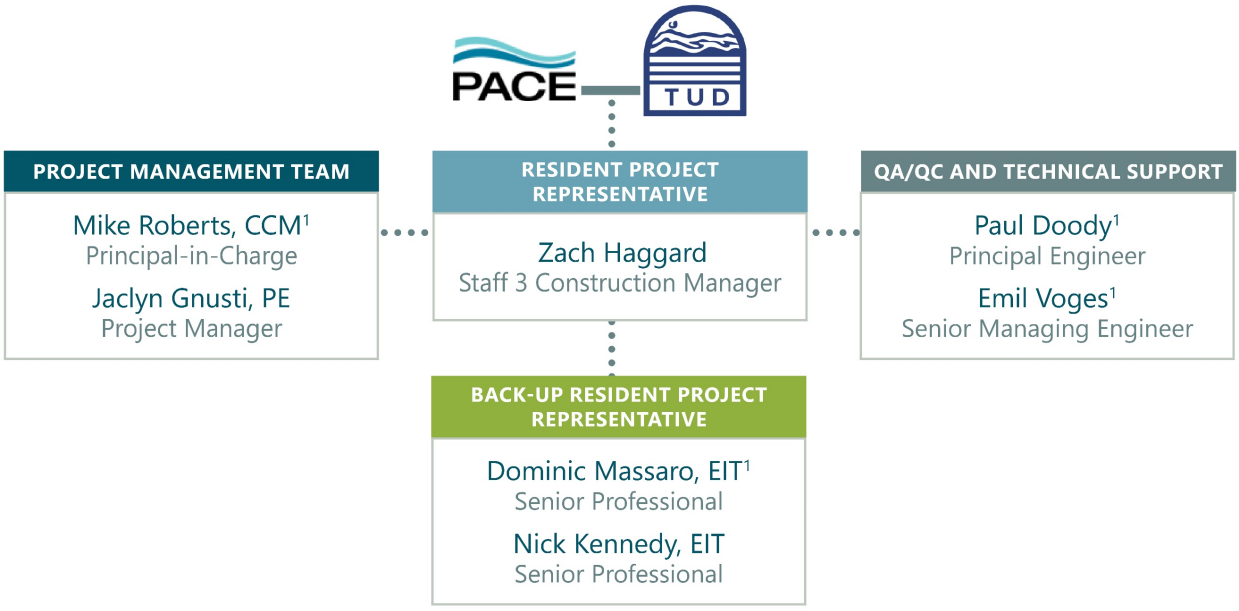
As Principal-in-Charge, Mike will be responsible for ensuring adequate technical resources are available. **He will support Zach using his 32 years of experience in field inspections and wastewater facility construction**. He was project manager for the construction of a $13 million wastewater treatment plant, a $4.9 million water treatment facility, and many multimillion-dollar water resource projects throughout the nation. Mike is dedicated to supporting this project throughout its duration and will prioritize rapid, thorough communications into his daily workload.

Jaclyn Gnusti, PE
Project Manager

As Project Manager, Jaclyn will oversee Anchor QEA's budget and schedule management. She has more than 22 years of engineering and construction management experience in the Bay Area. **Jaclyn managed the successful implementation of construction at Phoenix Lake in 2020, under budget and on time**. She is dedicated to supporting this project through the 18-month duration (or more) and will prioritize rapid and thorough communications for this project into her daily workload. In addition, Jaclyn will be available to attend site visits as needed.

Team Organization Chart

Our organization chart demonstrates Anchor QEA's approach to providing RPR services for the Sonora Wastewater Treatment Facility. Zach will be the daily, on-site inspector for the District. To safeguard the District's need for an **uninterrupted, consistent presence throughout construction**, two experienced field inspection professionals are available to provide back-up support for Zach. These staff were also on our roster for the Phoenix Lake Restoration and Preservation Project.



Note
1. Professional Engineer licensed in state other than California

Key Staff Summaries of Experience

Our key staff are available to start work immediately on this contract. Resumes are provided in Attachment 2.

Name	Professional Title, Licenses (State), Certifications, and Training	Relevant Experience[2]
RESIDENT PROJECT REPRESENTATIVE		
Zach Haggard	*Staff 3 Construction Manager*[1] • OSHA HAZWOPER 40-hour, 8-hour supervisor, 8-hour refresher • DOT HAZMAT Materials: General Awareness • SWPPP Inspector (MT) • Construction Management Health and Safety training	• 9 years of field and construction support experience • Provided field and construction support for some of the nation's largest and most complex remediation, dredging, and restoration projects • 15 constructed projects in the last 5 years as construction manager with zero claims

Name	Professional Title, Licenses (State), Certifications, and Training	Relevant Experience[2]
PROJECT MANAGEMENT TEAM		
Mike Roberts, CCM[1] *Principal-in-Charge* (Overall person responsible for ensuring adequate technical resources are available)	*Principal Engineer* • Professional Engineer (WA, OR) • Certified Construction Manager • OSHA HAZWOPER 40-hour, 8-hour refresher, Bloodborne Pathogens • Construction Management Health and Safety training	• 32 years of construction management experience, including $13 million wastewater treatment project • Construction Management Association of America chapter president • Trainer for American Public Works Association
Jaclyn Gnusti, PE[1] *Project Manager* (Anchor QEA budget and schedule management)	*Senior Managing Engineer* • Professional Engineer (CA) • Construction Management Health and Safety training	• 22 years of water resource and sediment management design and field experience • Project Manager for the District's Phoenix Lake Restoration and Preservation Project • Vice President of the Bay Planning Coalition
QA/QC AND TECHNICAL SUPPORT		
Paul Doody	*Principal Engineer* • Professional Engineer (CT, FL, IL, KY, MI, NH, NJ, NY, NC, PA, SC, TN, TX, WA, WI, WV) • OSHA HAZWOPER 40-hour, 8-hour refresher	• 38 years of professional experience, which includes being Engineer of Record for environmental design, wastewater, and groundwater treatment • Peer reviewer for the National Research Council of the National Academy of Sciences
Emil Voges	*Senior Managing Engineer* • Professional Engineer (WA)	• 25 years of experience in municipal and industrial water and wastewater planning, design, resident engineering, construction management, and commissioning
BACK-UP RESIDENT PROJECT REPRESENTATIVE		
Dominic Massaro[1]	*Senior Professional* • Professional Engineer (NY) • Engineer in Training (CA) • OSHA HAZWOPER 40-hour, 8-hour refresher, Workplace Bloodborne Pathogens, Hazardous Waste Operations • Construction Management Health and Safety training	• 9 years of experience as a construction manager • Cost estimating, constructability review, and construction management specialization • U.S. Army Corps of Engineers Construction Quality Management for Contractors trained
Nick Kennedy[1]	*Senior Professional* • Engineer in Training (CA) • OSHA HAZWOPER 40-hour, 10-hour construction safety, 8-hour refresher, Bloodborne Pathogens • Construction Management Health and Safety training • FAA Certified Commercial Pilot for Unmanned Aerial Systems (UAS)/Drones	• 6 years of construction project experience • Experienced in field inspection, construction management design, and cost estimating specialization • Excellent track record when managing client and contractor expectations • Successfully completed multiple high-profile environmental projects

Notes:
1. Member of Anchor QEA team for the Phoenix Lake Restoration and Preservation Project
DOT HAZMAT: U.S. Department of Transportation Hazardous Materials Safety

FEE PROPOSAL

Anchor QEA's fee proposal is as follows. **Based on our experience, projects of this magnitude may require the RPR to be on site approximately 60 hours per week**—this and other assumptions of hours and overhead costs are subject to change based on scoping discussions with the District and their provided construction manager. Once agreed upon, we intend to hold rates for the duration of the project unless otherwise agreed upon.

STAFF CATEGORY	Principal	Senior Manager	Manager	Senior Staff	Staff 3	Staff 2	Staff 1	Technical Editor/ Administrative	Mileage, Per Diem, and Lodging	Equipment[1]	Total Hours	Total Cost
HOURLY RATE	**$ 288**	**$ 259**	**$ 242**	**$ 215**	**$ 189**	**$ 169**	**$ 143**	**$ 152**				
KEY STAFF	Mike Roberts Paul Doody Emil Voges	Jaclyn Gnusti	*Staff as needed*	Dominic Massaro Nick Kennedy	Zach Haggard	*Staff as needed*	*Staff as needed*	*Staff as needed*				
TASK	**HOURS**											
Project Management	--	96	--	--	--	--	--	--	--	--	96	$24,864
Pre-Construction Coordination and Set Up	40	40	--	--	120	--	--	40	$2,600	$27,000	240	$80,240
Daily RPR Inspections	--	--	--	240	4,320	--	--	--	$113,873	--	4,560	$981,953
Technical Support	288	90	--	--	--	--	--	--	--	--	378	$106,254
Administrative Support	--	--	--	--	--	192	--	168	--	--	360	$57,984
Closeout	40	40	--	--	120	--	40	40	$2,600	--	280	$58,960
Total Hours	368	266	0	240	4,560	192	40	248	--	--	**5,914**	--
Total Cost	$ 105,984	$ 68,894	$ 0	$ 51,600	$ 861,840	$ 32,448	$ 5,720	$ 37,696	$ 119,073	--	--	**$ 1,310,255**

1. Assumed costs for Procore software are included in equipment costs. It is estimated that the monthly cost would be $1,500.

ASSUMPTION OF HOURS FOR EACH TASK

- **Project Management:** Approximately 4 hours per month at 24 months (4 months pre-construction, 18 months construction, 2 months closeout)
- **Pre-Construction Coordination and Set Up:** 4 months pre-construction
- **Daily RPR Inspections:** 60 hours per week at 18 months construction
- **Technical Support:** 21 hours per month at 18 months construction
- **Administrative Support:** 15 hours per month at 24 months (4 months pre-construction, 18 months construction, 2 months closeout)
- **Closeout:** 35 hours per week at 2 months closeout

SCOPE OF WORK

Project Understanding

Per the Request for Proposal, Anchor QEA would provide RPR services throughout construction of the Sonora Wastewater Treatment Plant. Our primary role is to confirm that all work is performed in compliance with the engineering design, to inform the District about schedule and budget performance, and to keep the engineer (PACE) apprised of any identified defective or non-compliant work.

We understand the project involves constructing, from the ground up, a wastewater treatment plant starting in the summer/fall of 2021 and lasting approximately 18 months. We will provide **one dedicated RPR for the project's entirety**, with a minimum of two qualified back-up RPR staff in the event of emergencies, illness, or pre-scheduled vacation.

Comprehensive Records Management

Anchor QEA has a **proven track record of handling large volumes of project records efficiently, securely, timely, and comprehensively** for our clients. We offer a variety of management software programs for document control, including SharePoint and Procore, based on client and project preference. We have the experience to set up and manage these programs effectively and efficiently.

Due to this project's intricacies, we recommend using Procore's construction administration software, which offers an immediate and user-friendly filing, tracking, and retrieval system, with a log of individual categories (e.g., request for information [RFI]). This software reduces overall administration time when organizing and reporting on a large volume of documents. Further, document access is easily controlled, so stakeholders will have varying levels of access to project records, uploading privileges, and report creation. Procore will provide the most comprehensive package for records management on this effort.

The District and the engineer will have full access to all documentation such as contract documents, RPR daily reports, photographs, contact list, schedule, submittals, RFIs, and important communications. We will implement all steps necessary for set up and daily usage by the required parties. Costs associated with Procore acquisition, monthly fees, and set up are included in our Fee Proposal (page 6).

REAL-TIME REPORTING AND DOCUMENT ACCESS IN THE FIELD

The ability to access, file, track, manage permissions, and retrieve immediately (among other features) and on-demand, rather than waiting to upload off-site, is crucial for accurate and timely records management.

Source: https://softwareconnect.com/construction-management/procore-construction-project-management-software/

Approach to Providing RPR Services

The following table describes how Anchor QEA's RPR and technical support team would approach the duties of this project.

	Project Element	Approach
1	**General**	Anchor QEA will confirm the appropriate point of contact and back-up points of contact for the engineer and contractor at a kickoff meeting. It is understood that the RPR will not directly interact with subcontractors; however, the designated points of contact will be identified for emergencies. All project-related communications with the District will be with the full knowledge of the engineer, with the exception of monthly invoicing and other general contractual or administrative matters, which will be handled between Anchor QEA's Project Manager and District staff.
2	**Schedules**	Prior to project commencement, Anchor QEA's RPR and support team will collaborate with the engineer to conduct an initial review of the contractor's baseline schedule using our standard in-house checklist to verify that it includes milestones and applies reasonable logic. During construction, we will review the contactor's current progress and look-ahead schedules (including schedule of Shop Drawings, sample submittals, value, etc.) at weekly meetings to address variances from the baseline. We will enforce the contract and require the contractor to provide a recovery schedule satisfactory to the engineer, if needed. We intend to conduct an initial constructability review of the proposed design, which should identify areas of concern and risk. If desired, we can also develop a risk register and analyze the impacts of budget and schedule variance on various project elements.
3	**Conferences and Meetings**	The RPR will attend all scheduled meetings with the contractor. It is assumed that the engineer will also attend these meetings, but if not, the RPR will coordinate with the engineer to ensure that sufficient information to and from the contractor is being relayed. For each meeting, the RPR will prepare an agenda, lead the meeting (if desired by the District and the engineer), and prepare notes that will be circulated to the District, the engineer, and the contractor within 48 hours. Each meeting will include a running list of notes from the previous meetings for reference, short interval look-ahead schedule, checklist of submittals, and action items noting responsible party.
4	**Safety Compliance**	Anchor QEA will develop a site-specific HASP for Anchor QEA staff. Further, the RPR will implement any additional project-specific health and safety measures required or recommended by the District, Occupational Safety and Health Administration (OSHA), or other relevant safety programs. Any Anchor QEA staff on site will receive relevant required site training prior to accessing the construction zone. We recognize that the contractor will be responsible for overall site safety, as well as their means and methods.

	Project Element	Approach	
5	**Liaison**	The RPR will directly coordinate with the engineer for all project design and engineering tasks associated with construction to communicate understanding of the intent and specific material and construction requirements with the contractor. The RPR will document all communications in daily reports. Important conversations will additionally be immediately documented and emailed to the engineer and the District. This ensures awareness of any items that may affect the District's on-site operations or that may impact the scope, schedule, and budget of the work. Daily reports are important when recalling specific events. Each daily report will include the following at a minimum:	• Date and time of work • Work performed and referenced bid item • Deliveries of equipment and materials • On-site contractor and subcontractors' field crew and equipment and others on site, such as the District, engineer, or special inspections staff • Data related to questions of Change Orders, Field Orders, Work Change Directives, or changed conditions • Detailed description of verbal communication with the contractor, engineer, and the District, as applicable • Detailed observation notes of test procedures • Deviations from the project design • Photographs of important work elements (as many as required)—additional photographs taken that day will be provided on a weekly basis to the District and engineer via the shared file system
6	**Clarifications and Interpretations**	When the RPR receives an RFI from the contractor, it will be immediately logged, filed, and transmitted to the engineer and/or District depending on subject matter. All relevant conversations with the contractor and the engineer will be documented in the RPR's daily reports, and time critical information will be transmitted via email to all parties as appropriate. All RFI transmissions will be reported in the weekly summary to the District, and the District will have access to all electronic files. **It is understood that all clarifications and interpretations will be prepared by the engineer or District, and that the RPR and Anchor QEA support team shall not provide any direction, clarification, or interpretation of the Construction Contractor Documents. It is also understood that Anchor QEA will not authorize any deviation from Construction Contract Documents.**	
7	**Shop Drawings and Samples**	All submitted shop drawings and samples will be logged immediately in the "Shop Drawing and Sample Log." That same day, the RPR will notify the engineer of the drawing or sample availability for inspection at the site. To avoid late submittals that may impact the schedule, the RPR will review upcoming work that requires approval of a shop drawing and/or sample submission with the engineer and contractor.	
8	**Proposed Modifications**	The RPR will evaluate the contractor's proposed modifications to the Project Drawings and Specifications and will consult with Anchor QEA's technical support team as necessary to ensure understanding of the alternatives and potential impacts to constructability and operations. The RPR's subsequent recommendation will be reported to the engineer, and the engineer's response will be reported back to the contractor. All proposed modifications will be approved by the engineer and will be logged and filed for the record.	

	Project Element	Approach
9	**Review of Work; Defective Work**	The RPR's field experience and communications with the Anchor QEA technical support team will be critical during this task. Any work observed during daily inspections that is believed to be defective by the RPR will be communicated to the engineer and the District immediately by phone and email. The RPR will also consult with the Anchor QEA technical support team for input. The RPR will provide to the engineer a summary of reasoning and recommendation to remedy the suspected deficiency, including drawing mark-ups and specification excerpts as needed. If the RPR believes any work items need to be uncovered for observation, special testing, inspection, or approval, the RPR will advise the engineer and provide recommendations and summarize any anticipated impacts to the work from the uncovering. It is understood that the RPR will only provide the engineer's final recommendations or direction directly to the contractor to remedy defective work.
10	**Inspections, Tests, and System Start-ups**	Inspections, tests, and system start-ups will be discussed in advance at weekly meetings. Additionally, the RPR will consult directly with the engineer as needed and will verify that the appropriate District personnel are on site during any training for tests, equipment, system start-ups, and operations and maintenance tasks. During these events, the RPR will observe, record, and provide an appropriately detailed report to the engineer. Prior to construction start, the RPR will confirm the contractor is aware of all required inspections required by the Construction Contract Documents. The RPR will track and confirm that the contractor has scheduled and completed all required inspections. Additionally, the RPR will assist and accompany any visiting inspectors to the site. All documentation for this work will be filed.
11	**Records**	The RPR will maintain copies of Construction Contract Documents on site at the contractor-provided field office. Documents on site will be organized and easily accessible. Anchor QEA office staff will manage electronic records of all Construction Contract Documents via construction management software. Electronic records will be organized, logged, and easily accessible by the required party. We propose using Procore construction management software for facilitating deliverables on this project. Procore is well equipped to handle the large quantity of records typically generated or required for wastewater treatment plant projects. Access will vary depending on role in project, but the District and the engineer will have full access to all documents at all times.
12	**Reports**	The RPR will provide periodic reports to the District and the engineer including progress of work, contractor compliance with project schedule, and a schedule of Shop Drawing and Sample Submittals. The RPR will draft and recommend any proposed Change Orders, Work Change Directives, and Field Orders to the District and the engineer as well as provide copies of all inspection, test, and system start-up reports to the engineer and the District. Additionally, the engineer and the District will be apprised immediately of any site accidents, emergencies, acts of God, possible force majeure and delay events, damage to property by fire or other causes, or the discovery of any potential differing site conditions or constituents of concern.

	Project Element	Approach
13	**Payment Requests**	The RPR will review the contractor's pay requests and verify that the quantities invoiced were completed in compliance with the design and permits. If the quantities cannot be verified or work is found to be out of compliance, the RPR will investigate the discrepancy with the contractor to determine an appropriate corrective action. All pay recommendations to the District will include a completed Payment Form and brief verification memorandum.
14	**Certificates, Operation and Maintenance Manuals**	The RPR will collect, log, and verify that all contractor-submitted certificates for materials and equipment, operation and maintenance manuals, and any other data required by the Construction Contract Documents are correct and valid for as-built material, equipment, operation, or maintenance. The RPR will coordinate with the engineer to provide all contractor-provided certificates, operation, and maintenance manuals for their review and transmission to the District. It is understood that the payment for these specific bid items will be based on the engineer's approval of these submittals.
15	**American Iron and Steel Requirements**	Our team's Principal-in-Charge has administered more than 20 projects where a Buy America provision was included. The specific requirements of the American Iron and Steel Requirement have been reviewed, and the RPR will monitor, log, and report on contractor's submittal of required certification letters or waivers.
16	**Completion**	• The RPR will participate in the engineer's site visit for substantial completion and assist in the determination of substantial completion. • The RPR will provide the contractor with a punch list to assist in substantial completion. The punch list will include any observed items requiring completion or correction prior to the issuance of substantial completion. • The RPR will complete a site walk with the District and the contractor to determine completion of work. • If any deficiencies are observed, a final punch list will be provided by the RPR to the contractor of all items to be completed or corrected by the contractor before the Notice of Acceptability of the Work can be signed. • The RPR will track and confirm that all items on final punch list have been completed by the contractor. • The RPR will provide the engineer with a recommendation on acceptance and issuance of Notice of Acceptability of the Work. • Should specific elements of the plant be put into service prior to substantial completion, a notice of beneficial use will be provided to clearly notify that the District is now responsible for the operation and maintenance of such elements and that start date of any warranty is clearly documented.

SIMILAR PROJECT EXPERIENCE

The following projects demonstrate some of our experience with construction support of complex and high-profile water resource projects.

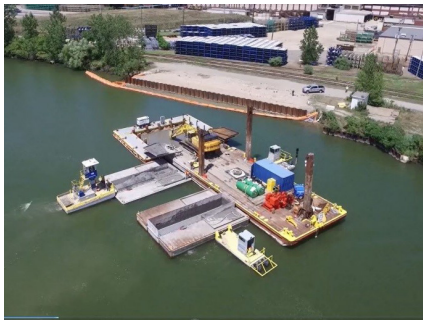
Phoenix Lake Restoration and Preservation Project

Tuolumne Utilities District, Sonora, California

Anchor QEA provided construction management services for this project at Phoenix Lake during the summer and fall of 2020. This $4.3 million construction contract consisted of excavating approximately 150,000 cubic yards of sediment from the lake to restore capacity for the municipal water source and back-up CalFire resource. Anchor QEA's Zach Haggard provided **daily on-site construction management** services to oversee construction operations and compliance with design and regulatory requirements, in addition to coordination with the stormwater pollution prevention plan (SWPPP) and environmental management team members. Anchor QEA's field representative was **critical in resolving numerous potential claim issues** with the contractor and District staff, including ensuring that design oversights were corrected in the field to prevent future operational issues. Construction management and QC tasks included field management by a full-time resident engineer, submittal review, progress payment review and processing, change management, coordination of re-design elements, surveying, and permit compliance support. Construction was completed in October 2020, and our services will be ending in early 2021. Construction was completed on schedule and under budget.

River Raisin Area of Concern NAPL Sediment Remediation

Ford Motor Company, Monroe, Michigan



Following Anchor QEA's development of a remedial design for an area containing polychlorinated biphenyls (PCBs) and nonaqueous phase liquid (NAPL) on the River Raisin, we provided full-time construction management services to oversee dredging, capping, and support work needed to restore aquatic habitat and reduce potential for migration and dispersion of contaminated sediments. The construction schedule involved working **24 hours per day, 6 days per week** with multiple shifts needed to provide adequate coverage of the contractor's activities. Due to the Port of Monroe's vessel schedule, installation of a three-layer cap had to be completed within 2 weeks. This required around-the-clock coverage and quick turnaround on cap survey and thickness documentation. In addition, a mobile laboratory was established to expedite field verification of the chemical isolation layer mixture. Following placement of the engineered cap and demobilization, a project completion report was prepared. The approximately **$20 million construction project was completed on schedule** and prior to the river freezing over in winter.

Winkelman Revetment Reconstruction and Tolt Pipeline Protection Project

King County Flood Control District, King County, Washington

Anchor QEA provided constructability review and construction management services for the Winkelman Revetment Reconstruction project, which had a construction value of $5.6 million. The Tolt Pipeline brings water from the South Fork Tolt River Reservoir to cities and communities across King County. The project consisted of reconstructing 1,200 feet of revetment using riprap to buttress the embankment, boulder ballasted log structures, and engineered logjams in order to limit the risk to the pipeline from channel migration hazards. Anchor QEA **developed constructability reviews** from the 60% design phase, provided bid review services, and administered construction and QC. Construction management and QC tasks included **field management by a full-time resident engineer**, submittal review, progress payment review and processing, change management, materials testing, surveying, permit compliance support, and aerial photography. The project was completed on schedule and under budget.

Hudson River PCBs Superfund Site

General Electric Company, Various Cities, New York

Since 1990, Anchor QEA personnel have been working with the General Electric Company (GE) on the remediation of 2.6 million cubic yards of sediment containing PCBs within the Upper and Lower Hudson River. This project demonstrates our ability to manage very large and complex projects, including **managing massive amounts of data and documentation**. Anchor QEA led sediment characterization efforts, which included collection of more than 8,000 sediment cores, management of data generated by more than 50,000 chemical analyses, and the design and execution of a comprehensive baseline water column monitoring program. All work required close cooperation with GE, the U.S. Environmental Protection Agency, and its oversight contractors, both in the field and in the decision-making process.

Relevant to the Sonora Wastewater Treatment Facility, **Anchor QEA engineer—and QA/QC and Technical Support for our RPR team—Paul Doody designed the 5,000 ton per day sediment dewatering facility** for the Hudson River project. The facility included trommel screen, hydrocyclones, vibrating screens with gravity thickening and filter press (recessed chamber plate and frame) dewatering of fines. Water removed from the sediment, along with stormwater collected in processing areas, was treated in a 2-MGD water treatment system consisting of inclined plate clarifiers, multimedia filters, granular activated carbon filters and bag/cartridge filters. Civil site work, buildings for process equipment, and electrical, instrumentation, and controls were also included.

ATTACHMENT 1: FORMS

12/04/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.1

PROJECT: Resident Project Representative Services for the Sonora Wastewater Treatment Facility

TO: All Planholders

FROM: Tuolumne Utilities District

PROPOSAL DATE: Unchanged

Notice is hereby given to prospective proposers that the Proposal Documents for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility have been modified as hereinafter set forth. This Addendum No.1 shall form a part of the Proposal Documents and takes precedence over the original Proposal Documents.

The following revisions, additions, replacements, clarifications, or deletions shall be made to the Contract Documents:

REPLACEMENT: Exhibits C & D
The attached Exhibits C & D dated 12/04/2020 shall replace Exhibits C & D of the original proposal documents.

CLARIFICATION: Exhibit C, Federal Requirements
Compliance with all Federal Requirements listed in Exhibit C must be adhered to in order to be considered an eligible proposer.

Proposers shall acknowledge receipt of Addendum No.1 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer

I acknowledge receipt of Addendum No.1.

Signed _____
Proposer

12/30/2020

Tuolumne Utilities District

NOTICE TO PLANHOLDERS

ADDENDUM NO.2

PROJECT:	Resident Project Representative Services for the Sonora Wastewater Treatment Facility
TO:	All Planholders
FROM:	Tuolumne Utilities District
PROPOSAL DATE:	Unchanged

Notice is hereby given to prospective proposers that the Proposal Documents for the Resident Project Representative Services for the Sonora Wastewater Treatment Facility have been modified as hereinafter set forth. This Addendum No.2 shall form a part of the Proposal Documents and takes precedence over the original Proposal Documents.

The following revisions, additions, replacements, clarifications, or deletions shall be made to the Contract Documents:

CLARIFICATION: Project Scope

The Resident Project Representative (RPR) shall act as an Inspector for the District and a liaison between the Engineer and the Contractor. The District will be providing a Construction Manager for the project that will be responsible for record keeping, processing pay requests, communications, etc. The RPR *is not* a Construction Manager nor shall he/she be responsible for tasks typically conducted by a Construction Manager. Any required special inspections will be coordinated by the project Engineer and are not the responsibility of the RPR. The RPR shall be present at all special inspections.

It is the District's intention to hire a firm which uses the same person for the Inspector throughout the duration of the project. The Inspector may utilize office support staff for some documentation; however, all daily logs shall be record by himself/herself. Please read Exhibit D-Services of the Resident Project Representative in the Request for Proposal very carefully.

Attached to this addendum is a plan view of the overall project site, the hydraulic profile of the project and a process flow diagram to help proposers better understand the breadth of the project.

Proposers shall acknowledge receipt of Addendum No.2 in the space below and include this page with their proposal. Failure to do so may disqualify proposer.

Jennifer L. Batt, P.E.
Associate Engineer
Tuolumne Utilities District

I acknowledge receipt of Addendum No.2.

Signed _____
Proposer Signature

Department of Industrial Relations
STATE OF CALIFORNIA

APPLICATION FOR
PUBLIC WORKS CONTRACTOR REGISTRATION

Registration Information

Type: Renewal

Period: July 1, 2020 – June 30, 2021

Contractor Information

Contractor Name: ANCHOR QEA, LLC

Trade Name: ANCHOR QEA, LLC

License Type Number: 1000022774

Contractor Physical Address

Physical Business Country: United States of America

Physical Business Address: 9700 Research Drive

Physical Business City/ Province: Irvine

Physical Business State: CA

Physical Business Postal Code: 92618

Contractor Mailing Address

Mailing Business Country:

Mailing Business Address:

Mailing Business City/ Province:

Mailing Business State:

Mailing Business Postal Code:

Contact Info

Daytime Phone:

Mobile Phone:

Daytime Phone Ext.:

Business Email: scappellino@anchorqea.com

Applicant's Email: pgesell@anchorqea.com

Workers' Compensation

Professional Employer Organization (PEO)

Do you lease employees through Professional Employer Organization? No

Workers' Compensation Overview

Insured by carrier

Carrier: TRAVELERS INDEMNITY COMPANY (THE)

Inception Date: October 10, 2019

Policyholder Name: ANCHOR QEA, LLC

Expiration Date: October 10, 2020

Policy Number: UB006J847765

Certification

Yes I certify that I do not have any delinquent liability to an employee or the state for any assessment of back wages or related damages, interest, fines, or penalties pursuant to any final judgment, order, or determination by a court or any federal, state, or local administrative agency, including a confirmed arbitration award

Yes I certify that the contractor is not currently debarred under Section 1777.1 or under any other federal or state law providing for the debarment of contractors from public works.

Yes I certify that one of the following is true: (1) I am licensed by the Contractors State License Board (CSLB) in accordance with Chapter 9 (commencing with Section 7000) of the Business and Professions Code; or (2) my business or trade is not subject to licensing by the CSLB.

I understand refunds are not authorized

I, Phil Gesell, the undersigned, am , ANCHOR QEA, LLC with the authority to act for and on behalf of the above named contractor. I certify under penalty of perjury that all of the above information provided is true and correct. I further acknowledge that any untruthful information provided in this application could result in the certification being canceled.

I certify this on: 6/3/2020 3:00:09 PM

Legal Entity Information

Legal Entity Type: LLC

Name: ANCHOR QEA, LLC

ANCHQEA-01 WJOHNDROW

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 12/22/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER License # 0C36861 Seattle-Alliant Insurance Services, Inc. 1420 Fifth Ave 15th Floor Seattle, WA 98101	CONTACT NAME: Melanie Kelly PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS: Melanie.Kelly@alliant.com
INSURED Anchor QEA, LLC 1201 3rd Ave., Suite 2600 Seattle, WA 98101	INSURER A : Travelers Indemnity Company of America — NAIC # 25666 INSURER B : Travelers Indemnity Company — NAIC # 25658 INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY			680-4R022572	10/10/2020	10/10/2021	EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
							MED EXP (Any one person)	$ 5,000
							PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	POLICY X PRO-JECT X LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	X OTHER: CA #680-4R022246							$
B	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO	X		BA-0R118959	10/10/2020	10/10/2021	BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB / OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB / CLAIMS-MADE						AGGREGATE	$
	DED / RETENTION $							$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			UB-4R041906	10/10/2020	10/10/2021	X PER STATUTE / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N: N	N / A					E.L. EACH ACCIDENT	$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Tuolumne Utilities District, its officers, agents and employees as well as Consultant, and its agents, and employee are Additional Insured with respect to the Automobile Liability per forms attached.

CERTIFICATE HOLDER

Tuolumne Utilities District
18885 Nugget Blvd.
Sonora, CA 95370

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET ADDITIONAL INSURED – PRIMARY AND NON-CONTRIBUTORY WITH OTHER INSURANCE

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

PROVISIONS

1. The following is added to Paragraph **A.1.c.**, **Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE**:

This includes any person or organization who you are required under a written contract or agreement between you and that person or organization, that is signed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, to name as an additional insured for Covered Autos Liability Coverage, but only for damages to which this insurance applies and only to the extent of that person's or organization's liability for the conduct of another "insured".

2. The following is added to Paragraph **B.5.**, **Other Insurance** of **SECTION IV – BUSINESS AUTO CONDITIONS**:

Regardless of the provisions of paragraph a. and paragraph **d.** of this part **5. Other Insurance,** this insurance is primary to and non-contributory with applicable other insurance under which an additional insured person or organization is the first named insured when the written contract or agreement between you and that person or organization, that is signed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, requires this insurance to be primary and non-contributory.

ATTACHMENT 2: RESUMES

Zach Haggard

Staff 3 Construction Manager

Zach Haggard provides construction management services for a variety of projects that include dredging, marina construction, contaminant remediation, and infrastructure. He has worked on a variety of coastal and waterfront projects for local and state agencies, as well as private organizations.

Clients and coworkers appreciate his common-sense approach toward problem-solving and project management, which he applies to duties such as constructability review, oversight of daily construction inspections, client-contractor communication, review of submittals, and cost estimation. In addition, Zach has experience in compiling specifications and permit applications for a variety of marine infrastructure projects (e.g., dredging) as well as upland remediation sites. In addition to Zach's experience in construction management, he is well-versed in environmental contaminants, sampling, and remedial actions.

Education

BS, Earth Systems Science: Geology, The City College of New York, 2016

AS, Math and Science, Hudson Valley Community College, 2013

Licenses/Certifications

OSHA HAZWOPER 40-hour certification and 10-hour site supervisor training

DOT Hazmat: General Awareness/Shipping Papers Specific

Project Experience

Phoenix Lake Restoration and Preservation Project

Tuolumne Utilities District
Sonora, California

Zach was lead on-site construction manager and owner's representative for the 2020 "dry" dredging and restoration of this drinking water and emergency fire water source. The work included excavation of 150,000 cubic yards of sediment to restore lake capacity, as well as multiple lake and upland improvements.

He was responsible for daily on-site observations, intake and review of all contractor submittals, and weekly progress meetings. He also ensured that the contract was in compliance with all contract documents, with a special focus on environmental permit compliance due to the environmental sensitivity of the area. The project was completed on time and under budget.

Lewis & Clark Station Bank Stabilization

Montana-Dakota Utilities
Sidney, Montana

Anchor QEA is the project manager for the Bank Stabilization Project at the Lewis & Clark Station on the Yellowstone River. Zach was the lead on-site owner representative during construction. He oversaw development of a construction stormwater pollution prevention plan, conducted environmental compliance inspections, and provided general oversight of adherence to the project plans and specifications.

Zach provided progress payment and project completion support for Montana Dakota Utilities to assess schedule and budget progress. The project was completed on time and on budget despite multiple shutdowns due to weather.

Project Experience

Maintenance Dredging Construction Oversight
City of Brisbane
Brisbane, California

Zach was the lead on-site construction manager during dredging and pile driving activities. His full-time, on-site role included representing the City of Brisbane to the contractor in the field and during weekly meetings and to the regulatory agencies for routine status updates. He also reviewed contractor progress surveys, performed volume calculations, communicated with regulatory agencies, assured compliance with the environmental permits (U.S. Army Corps of Engineers, Regional Water Quality Control Board, and other state agencies), processed payment applications, and ensured that target dredge depths were achieved in accordance with project specifications.

During construction, Zach successfully supported the resolution of a potential claim involving unanticipated additional sediment quantities, which ended with a no-cost change or schedule impact solution to the City's satisfaction.

River Raisin Remediation Project
Ford Motor Company
Monroe, Michigan

Zach provided daily inspection and oversight of construction as part of Anchor QEA's role in managing the 2016 remediation of the River Raisin Area of Concern. As part of his role, he reviewed third-party progress surveys, processed contractor payment applications, provided consistent and accurate communications between the client and contractor, and ensured the contractor met all requirements and expectations of the client.

Port of San Francisco O&M Dredging Inspections
Port of San Francisco
San Francisco, California

Zach has provided construction support services for the Port of San Francisco for the last four dredging seasons by leading on-site inspections for the duration of the maintenance dredging episodes. He oversaw a team of three subcontractors to complete all required inspections, which included 24-hour availability. In addition, he was responsible for reviewing all subcontractor and dredging contractor submittals and providing daily, weekly, and monthly reports to the client. At the end of each dredging episode, Zach provided annual reports to the U.S. Environmental Protection Agency and a complete construction closeout summary report to the Port.

Oakland Inner and Outer Harbor Maintenance Dredging
Manson Construction Company
Oakland, California

Zach was the lead on-site inspector for the 2020 maintenance dredging of the Oakland Inner and Outer Harbor. Duties included 24-7 on-call availability over a 5-month period, multiple daily scow inspections for San Francisco Deep Ocean Disposal, and document and photograph control for all inspections conducted during this period. He provided multiple daily updates to Anchor QEA and supporting teams and provided support to the project manager on an as-needed basis.

Jaclyn Gnusti, PE

Senior Managing Engineer

Jaclyn Gnusti is a civil engineer with 22 years of experience managing sediment and water management projects, from early concept development through construction management and closeout. Her project management and design skills include the ability to assemble and effectively manage a first-rate team of engineers and subconsultants while maintaining the project budget and schedule. Jaclyn's experience includes providing construction management support for water and sediment management projects, preparing cost estimates for dredging and marine infrastructure projects, providing regulatory support, coordinating sediment characterization efforts, preparing dredging bid documents, and providing support during bidding and award. She was named the BPC 2016 outstanding member due to her leadership as chairperson of the Dredging and Beneficial Reuse committee. BPC is a large advocacy organization that represents the interest of regulatory agencies, political officials, and industry in the San Francisco Bay region.

Education

BS, Civil and Environmental Engineering, University of California, Berkeley, 1998

Licenses/Certifications

Professional Engineer (PE), California, No. C62446

Professional Affiliations

Bay Planning Coalition (BPC), Executive Board of Directors, Vice President,

BPC, Dredging and Beneficial Reuse Committee, Chair

Project Experience

Phoenix Lake Restoration and Preservation Project

Tuolumne Utilities District
Sonora, California

Jaclyn was project manager for the 2020 "dry" dredging and restoration of this drinking water and emergency fire water source. The work included excavation of 150,000 cubic yards (cy) of sediment to restore lake capacity, as well as multiple lake and upland improvements. She led constructability review and was responsible for construction management for the 6-month project duration, including overseeing contractor compliance with bid document and permit conditions, approving payment requests, and administrating change orders.

Mission Bay Ferry Landing Dredging Project

Port of San Francisco
San Francisco, California

Jaclyn managed construction inspections during dredging and debris management for this $13.1 million construction project to prepare a site on the San Francisco waterfront for a future ferry landing site. Her work included training and managing a crew of site inspectors, preparing field reports, and reviewing contractor submittals. Procore construction management software was used for document control between the Port, contractor, and multiple consulting teams. Due to her careful budget management, Anchor QEA was able to perform beyond the scope of work using only 80% of the allotted budget.

San Francisco Marina West Harbor

City and County of San Francisco, Recreation and Parks Department
San Francisco, California

Jaclyn has served as project manager and engineer of record for five maintenance dredging projects at this 700-berth marina since 2017. These projects include minor modifications to the shoreline riprap, removal of various floating docks and associated piling, and installation of new navigational aids. She was also responsible for permit acquisition, preparation of bid documents, bid support, construction management, and closeout.

Project Experience

Brisbane Marina Maintenance Dredging
City of Brisbane
Brisbane, California

Jaclyn served as construction manager for the City of Brisbane's 2016 dredging and channel pile installation project. The project included dredging more than 70,000 cy of clean sediment from the marina and installing concrete channel marker piles. The work included daily on-site inspections, weekly contractor meetings, and document control. Despite challenges with this project, including unanticipated El Niño winter shoaling and boat movement concerns, her effective coordination with the Harbormaster, the Director of Public Works, and the contractor helped ensure that the project was completed under budget and on schedule.

Port of San Francisco O&M Dredging Inspections
Port of San Francisco
San Francisco, California

As project manager, Jaclyn has managed comprehensive dredging inspection services since 2017 for the Port of San Francisco's operation and maintenance dredging program at their deepwater berths. Her efforts included assembling and training inspection teams, managing inspection crew schedules (which required 24-hour availability), reviewing agency submittals, reviewing post-dredge surveys for contractor compliance with contract documents, and preparing closure reports for Port and regulatory agencies.

Martinez Marina Maintenance Dredging and Renovation
City of Martinez
Martinez, California

Jaclyn was project manager, lead engineer, and manager for marina maintenance dredging in 2008 and 2017. The work was performed hydraulically with upland placement at an adjacent disposal pond complex. She directed hydrographic and topographic surveying, collected sediment for laboratory analysis, managed permit acquisition, and prepared bid documents as the engineer of record. During construction, Jaclyn was responsible for quantity verification and oversight of contractor compliance with design and permit conditions. Throughout this project, she provided multiple technical presentations to the mayor, city council, and the public.

Pittsburg Marina Dredging Project
City of Pittsburg
Pittsburg, California

Jaclyn served as project engineer and oversaw on-site construction management support for mechanical dredging of the Pittsburg Marina Basin II in 2019. Her responsibilities included preparing bid documents as the engineer of record and overseeing construction management, which included weekly meetings, on-site inspections, overseeing contractor compliance with design and permit conditions, quantifying verifications, reviewing contractor payment requests, and managing the schedule and budget.

Alameda Point Channel
City of Alameda
Alameda, California

Jaclyn has supported the City of Alameda with a wide range of sediment management and environmental support services related to the deepwater ship channel at Alameda Point since 2005. She calculated volumes and prepared dredging cost estimates. Jaclyn previously supported the City during three maintenance dredging events, including oversight of surveying and sediment characterization, permitting, bid document preparation, bid support, and construction management. She was the lead on-site inspector, reviewed contractor submittals and pay requests, and prepared closeout documents.

Mike Roberts, CCM

Principal Engineer

As Anchor QEA, LLC's national lead for construction services, Mike Roberts provides a common-sense, problem-solving approach and builds successful teams. He manages multiple projects that focus on ports, navigational and contaminated sediment dredging, infrastructure, landfills, grading, roadways, bridges, rail, sensitive areas, and water and wastewater treatment plants. His responsibilities include preparing construction quality assurance plans, negotiating change orders, resolving claims, coordinating with local permitting agencies, reviewing submittals, preparing progress pay estimates for contractors, and providing coordination between public agencies, property owners, utilities, and contractors.

During his 32 years in construction management, Mike has worked with many local and state agencies, developing strong project management skills in earned value management and quality control (QC). He focuses on project setup to achieve project success through initial planning, document control, and cost control while providing projects that are ready for financial and documentation audits. In fact, many of his projects have been federally funded where compliance audits were commonplace. Mike is also an experienced engineer designer on roadway improvement, utility, and drainage facility projects and has managed design and predesign elements for roadway and utility segments.

Education

BS, Construction Management, Arizona State University, 1988

Licenses/Certifications

Professional Engineer (PE): Washington, No. 33795 (Civil); Oregon, No. 19596PE (Civil)

Construction Manager Certification Institute, Certified Construction Manager (CCM), No. 239

OSHA HAZWOPER 40-hour certified

Professional Affiliations

Construction Management Association of America, member and chapter president

Western Dredging Association, Member

American Public Works Association, Chairman of Construction Management Committee, 1998 to 2005

Project Experience

Karcher Creek Wastewater Treatment Facility Expansion, Phase II

City of Port Orchard and Karcher Creek Sewer District
Port Orchard, Washington

For the final phase of construction, Mike served as the project manager on a $13 million wastewater treatment plan for the City of Port Orchard and the Karcher Creek Sewer District. The project included construction of a new Zenon membrane filtration system, including a new equipment building to house the membrane bioreactor process; construction of a new biosolids/biofilter structure; upgrades to existing grit units; the addition of new grit units and a high rate clarifier; expansion of existing headworks facilities; and construction of a new laboratory and office space. Plant capacity was increased from 3.4 million gallons per day (MGD) to over 6.7 MGD, with a maximum treatment capacity at peak flow of 16 MGD. Mike managed resident engineer, document control, and inspection staff assigned to the project and assisted in reviewing monthly progress payments. In addition, he assisted with and reviewed change orders to address cost saving proposals by the contractor, changes requested by the owner, or changed conditions and other items. Payment to the contractor was made by a cost-loaded schedule.

Project Experience

Port Angeles Landfill Stabilization
City of Port Angeles
Port Angeles, Washington

As project manager for this $14.5-million landfill cell stabilization project, Mike established project controls and provided oversight on the review of project issues and the development of change orders. The project involved the removal and relocation of more than 400,000 cy of waste away from an eroding bluff above the Strait of Juan de Fuca. He led efforts to resolve a significant change-of-conditions claim through a mediated settlement resulting from the discovery of a large, undocumented volume of asbestos-containing material.

Cedar Hills Regional Landfill – Area 8 Excavation and Area 7 Closure
King County Department of Natural Resources
Maple Valley, Washington

For this $40 million project, Mike initially led a team in the constructability review of this landfill project that included two separate projects that were bid under a single contract. The project included creation of a new landfill cell (Area 8), which involved the excavation of 1.8 million cy of material and subsequent liner and leachate pump installation. Area 7 involved the temporary and final cover of an additional cell that will span two construction seasons. The project also included modifications and control systems to the landfill's leachate treatment facility that included supervisory control and data acquisition (i.e., SCADA) system integration, aerators, and cleanout of the leachate lagoons. Mike led development of complex change orders to address a change of conditions for newly discovered groundwater seeps that would threaten the performance of a lined landfill cell.

Pioneer Park Hatchery Constructability Review
Washington Department of Fish and Wildlife
Tumwater, Washington

Mike was the lead reviewer for a three-person constructability review for a proposed fish hatchery to be located on a 39-acre parcel in the City of Tumwater along the Deschutes River. The review focused on the proposed structural elements, foundations, staging, building, and systems. The work included an initial orientation meeting with the design team followed by developed of a detailed tabular report providing feedback and a secondary meeting to review and respond to the provided comments.

Port Angeles CSO and Esplanade
City of Port Angeles
Port Angeles, Washington

Mike served as project manager responsible for QC and assisted in development of the construction management plan for construction of combined sewer overflow facility. The project utilized an abandoned water main for carrier pipe and constructed line and tie into outfall in Rayonier Mill site. Close coordination was needed with the City for tie into the wastewater treatment plant. He coordinated with tribes for discovery of midden. Esplanade construction included construction of 400 linear feet of seawall and driven pile along waterfront with architectural features and Americans with Disabilities Act accessibility.

Stillaguamish Water Treatment Plant Project
City of Marysville
Arlington, Washington

For the construction of a new water treatment facility, Mike was the project manager for this $4.9 million new filtration plant, which was planned to treat water from the Stillaguamish River Ranney Collector. He oversaw construction, change management, and coordination with the design team. The plant utilizes membrane filtration technology and post-filtration disinfection with sodium hypochlorite. The facility was built on a constrained 1.31-acre parcel.

Dominic Massaro, EIT

Senior Professional

Dominic Massaro has more than 9 years of experience as a design engineer, cost estimator, and construction manager. He has been responsible for the design, estimation, construction management, and environmental monitoring of high-profile environmental projects in California, Massachusetts, and New York. Dominic's technical expertise has been applied to the implementation of cleanup and restoration projects ranging from sediment remediation, confined aquatic disposal, landfill closure systems, estuary restoration, and water treatment. He has extensive experience in all aspects of the in-water and upland design process, including predesign investigations (geotechnical investigations and conducting aerial surveys for design purposes), the design phase (construction drawings, cost estimating, and technical specification writing), and construction management (daily field inspections, biological monitoring, water quality monitoring, submittal review, survey and quantity review, payment requests, and change order review). He has experience with structural analysis, material specification, regulatory code evaluation, hydraulic and mechanical dredging, GPS systems, permitting, and quality control.

Education

BS, Civil Engineering, Pennsylvania State University, 2011

Licenses/Certifications

Professional Engineer (PE), New York, No. 098915

Engineering in Training, California

OSHA HAZWOPER 40-hour certified, 8-hour refresher, Workplace Bloodborne Pathogens, and Hazardous Waste Operations

U.S. Army Corps of Engineers (USACE) Construction Quality Management for Contractors

Federal Aviation Administration, Small UAS Certificate of Registration, No. 2333742

Professional Affiliations

American Society of Civil Engineers

Project Experience

Former Tow Basin and Marine Railway Terminal

Lockheed Martin Corporation
San Diego, California

Dominic is a lead designer for a $15 million Cleanup and Abatement Order at a former military submarine testing facility in San Diego. The project includes existing structure and building demolition, contaminated sediment mechanical dredging, upland sediment processing and disposal, mechanical sand cover placement, and outfall protection installation. He is providing lead design support, including pre-design investigations, remedial drawing design, technical specification writing, and permitting.

India Basin 900 Innes Voluntary Cleanup Project

City and County of San Francisco Parks and Recreation Department
San Francisco, California

Dominic is a lead designer for a $8 million voluntary cleanup project at a contaminated shipyard in San Francisco. The project includes existing structure demolition, contaminated sediment and soil excavation and disposal, and placement of clean backfill material in the upland, nearshore, and offshore areas. He has provided lead engineering support, including subcontractor coordination, remedial design, technical specification writing, and cost estimating.

Phoenix Lake Restoration and Preservation Project

Tuolumne Utilities District
Sonora, California

Dominic served as construction manager and engineer for this restoration and preservation project. The project included excavation of 40 acres of open water and wetland habitats to improve the storage capacity and water quality of a water reservoir supplying the neighboring municipality. He was responsible for documentation and management of project work within the agreed-upon

Project Experience

	construction documents and permit regulations. His daily tasks included contractor management, health and safety management, documentation of project production, water quality monitoring, subcontractor correspondence, regulatory agency correspondence, and client correspondence.
San Diego Shipyard Sediment Site – North Shipyard *General Dynamics NASSCO* *San Diego, California*	Dominic provided on-site construction management and environmental monitoring support as part of a maintenance dredging project to clear ship berthing and mooring zones. Work included tracking contractor operations (dredging, sediment hauling, demolition and construction, and water treatment), water quality monitoring, automated buoy management, sediment sampling, biological monitoring, and environmental permit compliance. He also prepared independent cost estimates and assisted with change management, conducted weekly progress meetings, and drafted correspondence regarding contract compliance issues.
Menominee River Sediment Removal Project *TYCO* *Marinette, Wisconsin*	Dominic was a project engineer and project estimator for mechanical dredging of approximately 235,000 cubic yards of river sediment, which was loaded onto hopper barges for transport to an offloading and storage area. Sediments were stabilized using a pugmill followed by processing for off-site transport and disposal. Dredge water was treated in a wastewater treatment plant prior to discharge.
Erie Canal Emergency Dredging *New York State* *Scotia, New York*	Dominic was a project engineer for emergency dredging of 22 miles between three locks in the Erie Canal following Hurricane Irene, with close supervision by New York State Department of Transportation and New York State Thruway Authority. He oversaw the mobilization of two 12-inch cutterhead dredges and assembly of a new 14-inch dredge. Dominic managed 40 workers on site 24 -7 during mobilization and pipeline assembly. He coordinated survey data to confirm required removal limits and executed multiple equipment component changes to resolve pumping issues and achieve peak performance.
Silver Lake Removal Action and Sediment Cap Installation *General Electric* *Pittsfield, Massachusetts*	As project engineer, Dominic oversaw installation of a 14-inch-thick subaqueous cap in a lake-bottom environment with multiple thin-layer 1-inch lifts to minimize sediment disruption. Geotextile materials were installed to enhance cap integrity and stability. A turbidity curtain system was installed to minimize total suspended solids and impacts to water quality. Shoreline area soils and sediments were excavated with steel sheet pile for protective shoring for transfer to an on-site storage facility for off-site transport and disposal. An armor stone layer was placed along the shoreline to prevent cap erosion due to wave action.

Nick Kennedy, EIT

Senior Professional

Nick Kennedy has more than 6 years of experience as an engineering and construction management field inspector, which includes design, construction management, and environmental monitoring of high-profile dredging and environmental projects in California. Nick's technical expertise has been applied to the implementation of various dredging projects, including routine maintenance, cleanup and remediation, and restoration projects. He has extensive experience in all aspects of the in-water and upland design process, including predesign investigations (collecting samples for design purposes), the design phase (design, cost estimating, and technical specification writing), and the construction management phase (field inspection, permit compliance, water quality monitoring, biological monitoring, and project management). Nick has an excellent track record when managing client and contractor expectations and has successfully completed multiple high-profile environmental projects, including two driven by the California State Water Resources Control Board and one by the U.S. Environmental Protection Agency (USEPA).

Education

MS, Biological and Agricultural Engineering, Washington State University, 2012

BS, Environmental Systems: Earth Sciences, University of California, San Diego, 2009

Licenses/Certifications

Engineer in Training (EIT), California

OSHA HAZWOPER 40-hour certification, 8-hour refresher, and 10-hour construction safety, Workplace Bloodborne Pathogens

First aid, CPR, and AED

California Boater Card, ID No. BOA5611981

Federal Aviation Administration, Small UAS Certificate of Registration, No. FA3X37HNXR

Project Experience

India Basin 900 Innes Voluntary Cleanup Project

City and County of San Francisco Parks and Recreation Department
San Francisco, California

Nick continues to provide engineering support including development of the design, technical specifications, and cost estimates for a voluntary cleanup of a contaminated shipyard in San Francisco, California. Design services include dredging and excavation of contaminated sediments from nearshore and upland sources and replacement with clean fill material. He also provided support during the bidding process by presenting at pre-bid meetings and preparing addenda with responses to bidder questions.

Mission Bay Ferry Landing Construction Support

Port of San Francisco (Ultimate Client)
San Francisco, California

Nick provided dredging construction support during dredging and debris management for this future ferry landing site on the San Francisco waterfront. His work included on-site inspections to assure compliance with regulatory permit conditions, monitoring of dredging progress through production analysis, and preparation of field reports for the Port of San Francisco. Part of the dredging work was classified as not suitable for unconfined aquatic disposal and required use of silt curtains for containment. All sediment was placed upland as beneficial reuse at the Montezuma Wetland Restoration Project.

Project Experience

Oakland Federal Dredging Inspections *Manson Dredging* *Oakland, California*	Nick provided on-site dredging inspections for this large federal dredging project in 2020. His work included 24-hour on-call availability to respond to scow loads with ultimate placement of sediment offshore. Part of his work included monitoring production and assessing compliance with permit conditions from the regulatory agencies and disposal requirements by USEPA.
Colorado Lagoon Restoration Program, Project 2A *City of Long Beach* *Long Beach, California*	Nick continues to provide engineering support including development of the design and technical specifications for a high-profile restoration project in Long Beach, California, to reconstruct an open channel between a marina and a lagoon. Design services include excavation, grading, utility removal and relocation, and park restoration design.
Colorado Lagoon Restoration Program, Project 2B *City of Long Beach* *Long Beach, California*	Nick provided on-site construction management and environmental monitoring support as part of a $2 million lagoon restoration project in Long Beach, California. Work included construction management (e.g., invoicing, change orders, technical memoranda, and design modifications) and conducting water quality monitoring, sediment sampling, biological monitoring, and environmental permit compliance.
Newport Beach Federal Dredging *City of Newport Beach* *Newport Beach, California*	Nick continues to provide engineering support including development of the design, technical specifications, and cost estimates for an anticipated U.S. Army Corps of Engineers federal dredging project within the Lower Newport Harbor in Newport Beach, California.
Andrée Clark Bird Refuge *City of Santa Barbara* *Santa Barbara, California*	Nick assisted with the predesign phase (site investigations and oversight during cone test penetration investigations) as part of a lagoon restoration project in Santa Barbara, California.
Yakima Valley Dairies Project *Yakima, Washington*	Nick designed and provided construction management services for four wastewater lagoons in the state of Washington. Design included earthwork, design of a double liner containment system, and design of the electronic leak detection system.
2018 Maintenance Dredging *NASSCO General Dynamics* *San Diego, California*	Nick provided design and construction management services for a $2 million maintenance dredging project in San Diego, California. Work included tracking contractor operations, water quality monitoring, environmental permit compliance, and other construction management duties (e.g., invoicing, change orders, technical memoranda, and design modifications).

Emil Voges, PE

Senior Managing Engineer

Emil Voges has 30 years of experience in project management, planning, engineering, construction management, commissioning, and operations of water, wastewater, and power generation systems. He has provided program management, owner representation, value engineering, and process planning, including the integration of financial, regulatory, and stakeholder interests with technology selection and scheduling. This has included construction management or resident engineering during the preconstruction, construction, and closeout phases of projects.

Emil has delivered projects during the construction phase using conventional and design-build procurement integration and overseeing the implementation of the civil, architectural, structural, mechanical, electrical, and instrumentation and controls disciplines.

Education

MS, Civil and Environmental Engineering, University of Washington, 1996

BS, Civil Engineering, Texas A&M University, 1987

Registrations/Licenses

Professional Engineer (PE), Washington, No. 35221

Memberships

American Society of Civil Engineers

Water Environment Federation/Pacific Northwest Clean Water Association - multiple conference presentations

Project Experience

Nitrification-Denitrification Process Design

Confidential Client
Eastern Washington

Emil is the lead process and design engineer for a manure wastewater nitrification-denitrification system. The system will include lagoons, flow balance management, an aeration blower-diffuser system, and sludge withdrawal.

Wastewater Outfall Options

Darigold
Chehalis, Washington

Emil has been supporting Darigold in its evaluation of options to remove an existing river outfall. The evaluation includes review of all Darigold and Chehalis treatment assets to cost-effectively maximize treatment and minimize impacts on city sewers.

Water Reuse Utility Process Integration

City of Quincy
Quincy, Washington

Emil provided process engineering integration for multiple consultants each designing separate unit processes including lime softening, membrane ultrafiltration, ion exchange, reverse osmosis, and brine storage and evaporation lagoons. The project included developing a minerals mass balance for the closed-loop utility.

Water Softener Building

American Water
Quincy, Washington

Emil was the project manager for a 2-MGD ion exchange water softening system. The project was procured as design-build with Emil as the general contractor's lead, directly managing all construction and start-up-related work in addition to planning and design.

Project Experience

Stormwater Retention Pond Design/Build *Darigold* *Sunnyside, Washington*	Emil was the construction contractor's project manager and lead engineer for a design-build project, procuring and managing subcontractors for the construction of two 1-million-gallon lined stormwater retention ponds and associated site conveyance.
Data Center Cooling Water Treatment Facility *Microsoft* *Quincy, Washington*	Emil was the project manager and lead engineer for the process, civil, mechanical, electrical, and instrumentation design team for a 0.5-mgd ion exchange water treatment system. The project was implemented as CMAR (construction manager at risk). Emil also provided resident engineering, start-up, and commissioning.
Aeration Basin 1 and 2 Improvements (2006, 2009) *City of Richland* *Richland, Washington*	Emil was the project manager and lead engineer during design, construction, and start-up of two aeration basin upgrades. During construction, Emil supported the owner with conflict resolution, change order negotiations, and progress payments. He developed control strategies and worked directly with the system integrator during programmable logic controller/supervisory control and data acquisition programming.
Brightwater Influent Pump Station *King County* *Bothell, Washington*	Emil was the project engineer for the design of a 130-mgd pumping system facility. He coordinated mechanical design across the main pumping structure and adjacent flow control portal and odor control, reclaimed water and emergency generator buildings. Emil was the assistant project manager during a 1-year equipment procurement and submittal review period that immediately followed construction bidding.
Water Filtration Plant Hypochlorite System *City of Everett* *Everett, Washington*	Emil was the project manager for the design engineering and construction phase support for the installation of a 40,000-gallon sodium hypochlorite storage system and associated metering pump system.
Martin Way Reclaimed Water Plant *LOTT Clean Water Alliance* *Olympia, Washington*	Emil was the design manager and resident engineer for the expansion of a modularized membrane bioreactor wastewater treatment plant. His construction phase services included coordination of delivery and installation of the major vendor's equipment between the vendor and contractor.
AutoCAD Document Management System *Port of Seattle* *Seattle, Washington*	Emil was the project manager for the development of electronic standards for AutoCAD. He mapped and enhanced the workflow and business model to provide consistent record drawings.

Paul Doody, PE

Principal Engineer

Paul Doody has more than 38 years of professional experience, beginning with his work in facilities engineering at IBM Corporation, where he was responsible for the design, installation and operations of groundwater treatment, high purity water treatment, and recycling systems, as well as evaluating overall water recycling at the semiconductor manufacturing facility.

As an environmental consultant, Paul has been responsible for design, installation, and operations of numerous groundwater treatment and industrial wastewater treatment systems. He was the lead engineer for one of the largest remedial dredging projects in the world, where he was in responsible charge of design for a 5,000-ton-per-day (ton/day) sediment processing facility.

In addition to project work, Paul served as a peer reviewer for the National Research Council of the National Academy of Sciences report *Sediment Dredging at Superfund Megasites: Assessing its Effectiveness*. He also was an active team member in developing contaminated sediment guidance for the Interstate Technology and Regulatory Council and ASTM International.

Education

BS, Chemical Engineering, Clarkson College of Technology, 1982

Licenses/Certifications

Professional Engineer (PE): Connecticut (No. PEN.0029522); Florida (No. 78024); Illinois (No. 062-053788); Kentucky (No. 18935); Michigan (No. 6201046964); New Hampshire (No. 13791); New Jersey (No. 24GE04235800); New York (No. 67405); North Carolina (No. 045096); Pennsylvania (No. PE056886E); South Carolina (No. 26698); Tennessee (No. 106200); Texas (No. 87116); Washington (No. 50722); West Virginia (No. 22734); Wisconsin (No. 44014-6)

Project Experience

Design of Sediment Processing Facility, Hudson River

General Electric Company
Albany, New York

Paul served as the lead engineer for the remedial design of dredging, processing, transport, and disposal of more than 2 million cubic yards of polychlorinated biphenyl (PCB)-containing sediment from the Upper Hudson River north of Albany, New York. This project included the design of a 5,000 ton/day sediment dewatering facility consisting of coarse solids removal via trommel screen, hydrocyclones, vibrating screens with gravity thickening and filter press (recessed chamber plate and frame) dewatering of fines. Water removed from the sediment along with stormwater collected in processing areas was treated in a 2-million-gallon-per-day (MGD) water treatment system consisting of lamella clarifiers, multimedia filters, granular activated carbon (GAC filters) and bag/cartridge filters. Civil site work, buildings for process equipment and electrical, instrumentation and controls were also included.

Groundwater and Wastewater Treatment System Design, Installation and Operations

Rockwell International
Russellville, Kentucky

Paul served as the lead engineer for a range of facility water treatment activities relative to Rockwell International's former die-casting facility in Russellville, Kentucky. Design activities included groundwater and spring water collection and treatment systems (250-gallon-per-minute capacity) consisting of multimedia filtration, GAC filters, and bag filters, as well as a wastewater treatment system

Project Experience

	to remove PCBs from oily wastewater using dissolved air flotation, multimedia filters, and GAC filters.
Groundwater Treatment and Wastewater Treatment/Recycling *IBM Corporation* *East Fishkill, New York*	Paul was responsible for the design, installation, operation, and maintenance of several systems used to treat and recycle deionized rinse water from semiconductor manufacturing operations. Unit processes included physical filtration, anion and cation exchange, and GAC filters. He designed and coordinated the installation of a temporary biological treatment system consisting of bioreactors, chemical feed systems for nutrient addition and pH adjustment, and an extensive in situ lagoon aeration system for treatment of an ethylene glycol spill. He was also responsible for design and installation of a 1-MGD groundwater treatment system consisting of air stripping (with carbon treatment of air discharge), sand filters, and GAC filters.

Designated Expert Examples

Expert Report on Economic Feasibility, Shipyard Sediment Site (San Diego, California), before the Regional Water Quality Control Board, San Diego. March 2011.

Expert Witness in *Thomas & Betts Corporation v. New Albertson's Inc., et. al.* Developed expert report (*Mother Brook Response Action Implementation Schedule and Costs*) and provided expert trial testimony. September 2014.

Expert Witness in *State of Minnesota v. 3M Company*. Developed expert report (*Expert Report of John Paul Doody in the Matter of State of Minnesota v. 3M Company*) and provided expert deposition testimony. October 2017.

Publication Examples

Mohan, R., J.P. Doody, C. Patmont, R. Gardner, and A. Shellenberger, 2016. "Review of Environmental Dredging in North America: Current Practice and Lessons Learned." *WEDA Journal of Dredging* 15(2):29–50.

Doody, J.P., A. Esposito, and D. Weeks, 2009. "A Comeback Story: Restoring the Town Branch Creek in Russellville Kentucky." *Land and Water* 53(5):14–18.

Presentation Examples

Powell, K., P. Doody, J. Detor, C. Dousharm, P. Olander, and B. Cardwell, 2019. *Dredging and Material Management of a Superfund Alternative Project Located Within a Historic Town*. Tenth International Conference on the Remediation and Management of Contaminated Sediments (New Orleans, Louisiana); February 13, 2019.

Doody, J.P., A. Corbin, D. Opdyke, C. Pinter, and W. Murray, 2019. *Unique Aspects of Capping and Long-Term Monitoring at River Raisin, Michigan*. Tenth International Conference on the Remediation and Management of Contaminated Sediments (New Orleans, Louisiana); February 12, 2019.

Doody, J.P., and C. Patmont. *In Situ Sediment Treatment: State of the Practice*. 22nd IPEC Conference (Denver, Colorado); November 18, 2015.

Attachment B

USDA Exhibit D-Services of the Resident Project Representative

RESIDENT PROJECT REPRESENTATIVE (RPR) – SERVICES

A. Owner shall furnish a Resident Project Representative ("RPR") to assist Engineer in observing progress and quality of the Work. The RPR may provide full time representation or may provide representation to a lesser degree. RPR is Engineer's representative at the Site, will act as directed by and under the supervision of Engineer, and will confer with Engineer regarding RPR's actions.

B. Through RPR's observations of the Work, including field checks of materials and installed equipment, Engineer shall endeavor to provide further protection for Owner against defects and deficiencies in the Work. However, RPR shall not supervise, direct, or have control over the Work, nor shall RPR have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected or used by any Constructor, for security or safety at the Site, for safety precautions and programs incident to the Work or any Constructor's work in progress, for the coordination of the Constructors' work or schedules, or for any failure of any Constructor to comply with Laws and Regulations applicable to the performing and furnishing of its work. The RPR neither guarantees the performance of any Constructor nor assumes responsibility for any Constructor's failure to furnish and perform the Work, or any portion of the Work, in accordance with the Construction Contract Documents

C. The duties and responsibilities of the RPR are as follows:

1. *General:* RPR's dealings in matters pertaining to the Work in general shall be with Engineer and Contractor. RPR's dealings with Subcontractors shall only be through or with the full knowledge and approval of Contractor. RPR shall generally communicate with Owner only with the knowledge of and under the direction of Engineer.

2. *Schedules:* Review the progress schedule, schedule of Shop Drawing and Sample submittals, schedule of values, and other schedules prepared by Contractor and consult with Engineer concerning acceptability of such schedules.

3. *Conferences and Meetings:* Attend meetings with Contractor, such as preconstruction conferences, progress meetings, job conferences, and other Project-related meetings (but not including Contractor's safety meetings), and as appropriate prepare and circulate copies of minutes thereof.

4. *Safety Compliance:* Comply with Site safety programs, as they apply to RPR, and if required to do so by such safety programs, receive safety training specifically related to RPR's own personal safety while at the Site.

5. *Liaison:*

   a. Serve as Engineer's liaison with Contractor. Working principally through Contractor's authorized representative or designee, assist in providing information regarding the provisions and intent of the Construction Contract Documents.

   b. Assist Engineer in serving as Owner's liaison with Contractor when Contractor's operations affect Owner's on-Site operations.

   c. Assist in obtaining from Owner additional details or information, when required for proper execution of the Work.

6. *Clarifications and Interpretations:* Receive from Contractor submittal of any matters in question concerning the requirements of the Construction Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Construction Contract Documents. Report to Engineer regarding such RFIs. Report to Engineer when clarifications and interpretations of the Construction Contract Documents are needed, whether as the result of a Contractor RFI or otherwise. Transmit Engineer's clarifications, interpretations, and decisions to Contractor. ,

7. *Shop Drawings and Samples:*

   a. Record date of receipt of Samples and Contractor-approved Shop Drawings.

   b. Receive Samples that are furnished at the Site by Contractor and notify Engineer of availability of Samples for examination.

   c. Advise Engineer and Contractor of the commencement of any portion of the Work requiring a Shop Drawing or Sample submittal, if RPR believes that the submittal has not been received from Contractor or has not been approved by Contractor or Engineer.

8. *Proposed* M*odifications:* Consider and evaluate Contractor's suggestions for modifications to the Drawings or Specifications, and report such suggestions, together with RPR's recommendations, if any, to Engineer. Transmit Engineer's response (if any) to such suggestions to Contractor.

9. *Review of Work; Defective Work:*

   a. Report to Engineer whenever RPR believes that any part of the Work is defective under the terms and standards set forth in the Construction Contract Documents, and provide recommendations as to whether such Work should be corrected, removed and replaced, or accepted as provided in the Construction Contract Documents.

   b. Inform Engineer of any Work that RPR believes is not defective under the terms and standards set forth in the Construction Contract Documents, but is nonetheless not compatible with the design concept of the completed Project as a functioning whole, and provide recommendations to Engineer for addressing such Work. ; and

c. Advise Engineer of that part of the Work that RPR believes should be uncovered for observation, or requires special testing, inspection, or approval.

10. Inspections, Tests, and System Start-ups:

a. Consult with Engineer in advance of scheduled inspections, tests, and systems start-ups.

b. Verify that tests, equipment, and systems start-ups and operating and maintenance training are conducted in the presence of appropriate Owner's personnel, and that Contractor maintains adequate records thereof.

c. Observe, record, and report to Engineer appropriate details relative to the test procedures and systems start-ups.

d. Observe whether Contractor has arranged for inspections required by Laws and Regulations, including but not limited to those to be performed by public or other agencies having jurisdiction over the Work.

e. Accompany visiting inspectors representing public or other agencies having jurisdiction over the Work, record the results of these inspections, and report to Engineer.

11. *Records*:

a. Maintain at the Site orderly files for correspondence, reports of job conferences, copies of Construction Contract Documents including all Change Orders, Field Orders, Work Change Directives, Addenda, additional Drawings issued subsequent to the execution of the Construction Contract, RFIs, Engineer's clarifications and interpretations of the Construction Contract Documents, progress reports, approved Shop Drawing and Sample submittals, and other Project-related documents.

b. Prepare a daily report or keep a diary or log book, recording Contractor's hours on the Site, Subcontractors present at the Site, weather conditions, data relative to questions of Change Orders, Field Orders, Work Change Directives, or changed conditions, Site visitors, deliveries of equipment or materials, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures; and send copies to Engineer.

c. Upon request from Owner to Engineer, photograph or video Work in progress or Site conditions.

d. Record and maintain accurate, up-to-date lists of the names, addresses, fax numbers, e-mail addresses, websites, and telephone numbers (including mobile numbers) of all Contractors, Subcontractors, and major Suppliers of materials and equipment.

e. Maintain records for use in preparing Project documentation.

f. Upon completion of the Work, furnish original set of all RPR Project documentation to Engineer.

12. *Reports:*

    a. Furnish to Engineer periodic reports as required of progress of the Work and of Contractor's compliance with the progress schedule and schedule of Shop Drawing and Sample submittals.

    b. Draft and recommend to Engineer proposed Change Orders, Work Change Directives, and Field Orders. Obtain backup material from Contractor.

    c. Furnish to Engineer and Owner copies of all inspection, test, and system start-up reports.

    d. Immediately inform Engineer of the occurrence of any Site accidents, emergencies, acts of God endangering the Work, possible force majeure or delay events, damage to property by fire or other causes, or the discovery of any potential differing site condition or Constituent of Concern.

13. *Payment Requests:* Review applications for payment with Contractor for compliance with the established procedure for their submission and forward with recommendations to Engineer, noting particularly the relationship of the payment requested to the schedule of values, Work completed, and materials and equipment delivered at the Site but not incorporated in the Work.

14. *Certificates, Operation and Maintenance Manuals:* During the course of the Work, verify that materials and equipment certificates, operation and maintenance manuals and other data required by the Contract Documents to be assembled and furnished by Contractor are applicable to the items actually installed and in accordance with the Contract Documents, and have these documents delivered to Engineer for review and forwarding to Owner prior to payment for that part of the Work.

15. *American Iron and Steel Requirements:* The RPR is to assist the Engineer in implementing the Engineer's Responsibilities for project compliance with the USDA RUS American Iron and Steel Requirements. The RPR typically is responsible for field identification and photo documenting domestic iron and steel products used in the project. The RPR may also be requested to maintain a log of manufacturer's certifications.

16. *Completion*:

    a. Participate in Engineer's visits to the Site regarding Substantial Completion, assist in the determination of Substantial Completion, and prior to the issuance of a Certificate of Substantial Completion submit a punch list of observed items requiring completion or correction.

    b. Participate in Engineer's visit to the Site in the company of Owner and Contractor, to determine completion of the Work, and prepare a final punch list of items to be completed or corrected by Contractor.

    c. Observe whether all items on the final punch list have been completed or corrected and make recommendations to Engineer concerning acceptance and issuance of the Notice of Acceptability of the Work.

D. Resident Project Representative shall not:

1. Authorize any deviation from the Construction Contract Documents or substitution of materials or equipment (including "or-equal" items).

2. Exceed limitations of Engineer's authority as set forth in this Agreement.

3. Undertake any of the responsibilities of Contractor, Subcontractors, or Suppliers, or any Constructor.

4. Advise on, issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences or procedures of the Work, by Contractor or any other Constructor.

5. Advise on, issue directions regarding, or assume control over security or safety practices, precautions, and programs in connection with the activities or operations of Owner or Contractor.

6. Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by Engineer.

7. Accept Shop Drawing or Sample submittals from anyone other than Contractor.

8. Authorize Owner to occupy the Project in whole or in part.

TUD Wastewater Committee Meeting of February 8, 2021 Item #2

Review the attached Summary of Equipment Ranking for equipment to be installed as part of the Sonora Regional Wastewater Treatment Facility (SRWWTF) Project

Recommendation

Staff recommends the Wastewater Committee review the attached Summary of Equipment Ranking for equipment to be installed as part of the Sonora Regional Wastewater Treatment Facility (SRWWTF) Project. Staff is requesting the Committee provide a recommendation to the full Board at its upcoming meeting scheduled for February 23, 2021.

Background

On September 8, 2020, Pacific Advanced Civil Engineering (PACE) issued, on behalf of the District, Advertisement for Bids for equipment packages needed for construction of the SRWWTF. The five equipment packages include

1. Headworks and Grit Removal System
2. Biological Treatment System
3. Aeration and Digester Blowers
4. Filtration System
5. Screw Press

Anywhere from three to six proposals were received for each of the equipment packages. PACE conducted an exhaustive review of each proposal and evaluated each proposed equipment package on the basis of performance, reference list, maintenance and repair contract, capital cost, 20-year life cycle cost, installation requirements, delivery schedule, and completeness of responses. Tables summarizing the proposal scores and ranking are attached to this Committee Report. Detailed Technical Memorandum, with all of the equipment proposals, and draft procurement contracts for each equipment package can be accessed at the following link which is book marked for your convenience:

https://tudwater.com/wp-content/uploads/2021/02/WWCommittee-Report-Big-5-Equipment-Selection.pdf

The purpose of preselecting and pre-negotiating purchase prices on important equipment is to ensure the District receives the best equipment possible. The strategic and methodical approach eliminates the Contractor's ability to substitute inferior equipment and achieves superior cost control. Another benefit of preselection is that it allows the design engineer, in this case PACE, to customize the plans to match up exactly with the specific equipment selected.

More accurate engineering plans contribute to less confusion and help minimize errors in construction. Furthermore, this process allows for equipment to be ordered by the Contractor early in the project and helps eliminate delays in equipment fabrication and delivery.

District Operations and Engineering Staff, along with PACE, selected the following equipment manufacturers to execute procurement contracts with:

Process	**Manufacturer**	**Procurement Contract Amount**
Headworks and Grit Removal System	Vulcan Industries	$734,823
Biological Treatment	Parkson	$630,193
Aeration and Digester Blowers	Kaeser	$618,003
Filtration System	Veolia Hydrotech	$501,038
Screw Press	FKC	$414,022

*Procurement Contract Amounts include applicable sales tax.

Discussion

Prior to advertising the project for bids, equipment procurement agreements must be executed by the District. The agreements will then be assigned to the Prime Contractor awarded the project through the following language to be contained in the construction agreement.

> *Owner (TUD) as "Buyer" will execute a procurement contract with (selected manufacturer) as "Seller" for the procurement of goods and special services for (equipment package). The materials and equipment to be provided through the procurement contract are to be furnished and delivered to the Site for installation by Contractor. Owner will assign said procurement contract to Contractor as set forth in the Construction Agreement. Contractor will accept the assignment, as Buyer (Contractor/Assignee), and will be responsible to Owner for the performance of obligations by Seller, which will become a Subcontractor or Supplier to Contractor. Contractor will be required to schedule, receive, off-load, inspect, provide secured storage, installation, start up and training coordination, etc. Contractor will be responsible for providing a complete operable system. The delivery schedule of this equipment to the job site is XX weeks after the date of the Notice to Proceed to Order Equipment. The shop drawings for this equipment shall be provided separately.*

Under the terms and conditions outlined above, the Contractor will be responsible to purchase the equipment. The cost of the equipment will be invoiced to the District in the same manner the District pays the Prime Contractor for all other aspects of the project. Equipment costs are eligible for USDA funding.

Attachment A
Summary of Equipment Ranking

Headworks

Criteria	Weight	Duperon & Hydrodyne Grit	Headworks Int'l & S&L Grit	Hydrodyne	Kusters	Lakeside	Vulcan
		Scoring Scale 1-6					
Performance	*10*	5.0	1.0	4.0	3.0	2.0	6.0
Reference List	*10*	3.0	1.5	1.5	4.5	4.5	6.0
Full Maintenance and Repair Contract	*10*	3.0	2.0	1.0	4.0	6.0	5.0
Capital Cost	*5*	2.0	3.0	4.0	6.0	5.0	1.0
20-Year Life Cycle Cost	*5*	3.0	1.0	4.0	6.0	5.0	2.0
Installation Requirements	*5*	5.0	1.0	3.0	4.0	2.0	6.0
Delivery Schedule	*5*	5.5	3.0	1.0	5.5	4.0	2.0
Completeness of Response	*5*	3.5	3.5	1.5	5.0	1.5	6.0
Provided Bond or Willingness to Provide Bond Letter Included?	*y/n*	Y (Duperon) N (HDE)	Y (S&L) N (Headworks)	N	Y	Y	Y
Total		205	102.5	132.5	247.5	212.5	255
Order of Recommendation		4	6	5	2	3	1

Biological Treatment

Criteria	Weight	Nexom	Bioworks	Parkson
		Scoring Scale 1-3 (3 is best)		
Performance	*10*	1.0	3.0	2.0
Reference List	*10*	1.0	2.0	**3.0**
Full Maintenance and Repair Contract	*10*	2.0	1.0	**3.0**
Capital Cost	*5*	3.0	2.0	1.0
20-Year Life Cycle Cost	*5*	3.0	1.0	2.0
Installation Requirements	*5*	1.0	2.0	3.0
Delivery Schedule	*5*	1.5	1.5	3.0
Completeness of Response	*5*	1.5	1.5	3.0
Provided Bond or Willingness to Provide Bond Letter?	*y/n*	Yes	No	Yes
Total		**90**	**100**	**140**
Order of Recommendation		**3**	**2**	**1**
Note: The total sum of scores for each evaluated item/criterion equates to 6.0				

Aeration and Digester Blowers

Criteria	Weight	ABS Sulzer + Excelsior	Aerzen	Atlas Copco	Kaeser
		Scoring Scale 1-4			
Performance	*10*	3.0	1.0	4.0	2.0
Reference List	*10*	2.0	1.0	4.0	3.0
Full Maintenance and Repair Contract	*10*	2.0	3.0	4.0	1.0
Capital Cost	*10*	1.0	2.0	3.0	4.0
20-Year Life Cycle Cost	*10*	2.5	2.5	2.5	2.5
Installation Requirements	*10*	1.0	2.0	3.0	4.0
Delivery Schedule	*5*	1.0	4.0	3.0	2.0
Completeness of Response	*5*	2.0	3.0	4.0	1.0
Provided Bond or Willingness to Provide Bond Letter Included?	*y/n*	Yes	Yes	Yes	No
Total		130	150	240	180
Order of Recommendation		4	3	1	1

Order of Recommendation Notes: Atlas Copco requires larger electrical equipment for both the Hi Aeration (300 Hp vs. 250 Hp) and for the Digester blowers (100 Hp vs. 60 Hp). Leads to additional costs for the dist panel, conductors, conduits, generator upsizing, etc.

Filters

Criteria	Weight	Nexom Option 1	Nexom Option 2	Alfa Laval	Veolia-Hydrotech
		Scoring Scale 1-4			
Performance	*10*	1.0	2.0	3.0	**4.0**
Reference List	*10*	2.5	2.5	1.0	**4.0**
Full Maintenance and Repair Contract	*10*	3.5	3.5	2.0	1.0
Capital Cost	*5*	3.0	4.0	2.0	1.0
20-Year Life Cycle Cost	*5*	3.0	3.0	3.0	1.0
Installation Requirements	*5*	1.0	2.0	3.0	4.0
Delivery Schedule	*5*	1.5	1.5	4.0	3.0
Completeness of Response	*5*	2.5	2.5	1.0	4.0
Provided Bond or Willingness to Provide Bond Letter Included?	*y/n*	Y	Y	Y	Y
Total		**125**	**145**	**125**	**155**
Place		**3**	**2**	**3**	**1**

Screw Press

Criteria	Weight	Schwing	FKC	PW Tech
		Scoring Scale 1-3 (3 is best)		
Performance	*10*	1.0	**3.0**	2.0
Reference List	*10*	2.0	**3.0**	1.0
Full Maintenance and Repair Contract	*10*	1.5	1.5	3.0
Capital Cost	*5*	2.0	1.0	3.0
20-Year Life Cycle Cost	*5*	1.0	2.0	3.0
Installation Requirements	*5*	2.0	3.0	1.0
Delivery Schedule	*5*	1.0	2.0	3.0
Completeness of Response	*5*	1.0	3.0	2.0
Provided Bond or Willingness to Provide Bond Letter?	*y/n*	Yes	Yes	Yes
Total		**80**	**130**	**120**
Order of Recommendation		**3**	**1**	**2**