



REQUEST FOR PROPOSAL
FOR

Tapia Water Reclamation Facility
Secondary Clarifier Rehabilitation

Condition Assessment, Design, Bid and Construction
Support Services

PROPOSALS DUE
JANUARY 20, 2023 at 4:00 p.m.

Las Virgenes Municipal Water District
4232 Las Virgenes Road
Calabasas CA 91302
818.251.2100

December 2022

REQUEST FOR PROPOSAL
Las Virgenes – Triunfo Joint Powers Authority

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- Attachment B – Brentwood Condition Assessment
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I. INTRODUCTION

The Las Virgenes – Triunfo Joint Powers Authority (JPA) invites your firm to submit a proposal to provide engineering services for the Tapia Water Reclamation Facility Secondary Clarifier Upgrade Project. Engineering services will include:

- Review of available materials from the District, other sources, and research.
- Preparation of a Condition Assessment Report, 60%, 90% and 100% design plans and specifications for the rehabilitation of the secondary clarifiers.
- Bidding and construction support services.

A preliminary scope of work is included to assist you in preparation of your proposal. Failure to submit information in accordance with the requirements in this Request for Proposal (RFP) may be cause for disqualification.

Address any questions regarding this RFP to Alex Leu, PE at 818-251-2144 or via email at ALeu@lvmwd.com. Firms may request a non-mandatory site visit meeting before the proposal deadline.

II. BACKGROUND INFORMATION

The Triunfo Joint Powers Authority (JPA) was formed between the Las Virgenes Municipal Water District (LVMWD or District) and the Triunfo Water and Sanitation District (TSD) in 1964 to construct, operate and maintain a joint wastewater treatment system for their respective service areas, primarily within the Malibu Creek Watershed. The JPA facilities include the Tapia Water Reclamation Facility (Tapia), the Rancho Las Virgenes Composting facilities (Rancho), approximately 60 miles of trunk sewers, and an extensive recycled water transmission and distribution system.

Tapia was originally constructed in 1965 and provides tertiary treatment for municipal wastewater from domestic, commercial, and industrial sources. Tapia has undergone several expansions and currently treats approximately 7 million gallons of wastewater on an average dry weather day; and the design flow capacity of the plant is 12 million gallons per day. Tapia has the following treatment process sequence: coarse screening, grit removal, primary sedimentation, secondary treatment (biological nutrient reduction), secondary sedimentation, tertiary treatment, chlorination, and dechlorination.

The Secondary Clarifier Rehabilitation Project involves the evaluation, rehabilitation, and/or replacement of mechanical and electrical equipment and structural concrete for the ten (10) rectangular secondary clarifiers. During average dry weather flow, only 4-5 secondary clarifiers are required to be online. During average wet weather flow, all ten (10) secondary clarifiers are required to be available. The secondary clarifiers are no longer reliable and prone to failure resulting in reduced treatment capacity during storm events.

The rectangular secondary clarifiers are 150-feet long, 20-feet wide, with a surface area of 3,000 square-feet. The side water depths of each clarifier are approximately 10-feet. Each clarifier is equipped with a flight and chain system that moves settled sludge towards the end of the tank. Settled sludge is either returned back into the aeration process (RAS) or wasted (WAS) and combined with primary sludge and sent to Rancho for processing. There is a scum

spray system that collects any floatables, fats, oils, or grease that accumulate at the surface. Clarified secondary effluent overflows into effluent launders that flow by gravity toward the filters for tertiary treatment. The mechanical and electrical equipment for the secondary clarifiers has also exceeded their useful life and have begun to fail.

Over time, the concrete in and around the secondary clarifiers vapor space (upper +/- 3 feet) has deteriorated due to exposure to gases from influent wastewater. Concrete spalling has been observed in several places on the clarifier deck and walkways of the original tanks; and visual inspection of the tank interior revealed locations of "softened" concrete.

The first set of five (5) rectangular secondary clarifiers were originally constructed in 1970. Secondary clarifier #5 was originally intended to serve as a chlorine contact tank and a redundant secondary clarifier. Two additional secondary clarifiers (#6 and #7) were constructed in the 1987 expansion. Three additional clarifiers (#8, #9 and #10) were constructed as part of the 1990 expansion. The 1990 addition also included upgrades to the effluent launders and drain for Tanks #1-3 and the inlet diffusers for Tanks #4-7. The structural condition of the concrete and mechanical and electrical equipment for each secondary clarifier varies from tank to tank. Upgrades to Tanks #3, 5, 9, and 10 were also completed as part of the BNR project in 2008. The record drawings from the major upgrades can be referenced in Attachment A. Full as-built sets can be provided upon request. There has been various routine preventative maintenance, emergency repairs, and replacements that were completed throughout the years. Because of this, the condition and age of the concrete, mechanical, electrical equipment varies from tank to tank.

III. SCOPE OF WORK

A general outline of the scope of work is provided below. It is the District's expectation that the proposer uses their expertise to customize the scope below, as appropriate, to meet the project objectives in a cost-effective manner. The District does not own any AutoCAD dwgs for this area and the selected proposer is expected to use available TIFF/PDF files (Attachment A) as the basis of their design drawings. Proposers may identify additional tasks as needed to meet the project objectives or may offer optional tasks as appropriate.

1) Phase 1 – Research and Investigation

- Project Introductions/Kickoff Meeting (Online)
- Review existing record drawings, as-builts, records, and data, including but not limited to construction records, drawings, previous reports/studies, maps, and other documents relevant to the limits and scope of the project.
- Review of Brentwood's September 2022 Condition Assessment Report (Attachment B).

2) Phase 2 – Condition Assessment Report – Draft and Final

- Includes but not limited to the complete assessment of the structural concrete for each tank, structural walkways between tanks, associated electrical equipment, and mechanical equipment for each secondary clarifier. The consultant may propose any additional testing and or studies for a comprehensive condition assessment.

- Deteriorated Concrete (spalls, cracks, honeycombing, etc.) within each secondary clarifier, along the perimeter, and walkways
 - Assessment of the structural integrity of the tank walkways
- Leaking wall seals/penetrations and deteriorated expansion joints between tanks and along walkways
- Mechanical Equipment
 - Sludge Collection Equipment
 - Flights, chains, sprockets, head shafts, return rails, shoes, etc.
 - Drives, control panels, conduit, wires, etc.
 - Scum Collection Equipment
 - Floating surface/scum collector
 - Scum drain piping, valves, and supports
 - Spray water piping, nozzles, etc.
 - Effluent Launderers
 - Launder drains
 - Influent gates and scum gates
 - Inlet baffles
 - Tank drain valves and piping
 - Tank and walkway handrails
 - Tank accessibility
 - Grating
 - Hose bibs
 - RAS gates, piping, valves, and pumps are not included as part of this project.
 - Tank lighting is not included as part of this project
- The Condition Assessment Report will document the current condition of the structural concrete, electrical, and mechanical equipment for each secondary clarifier and provide a recommendation solution for repair, rehabilitation, or replacement. The age and condition of the equipment vary due to upgrades and preventative maintenance throughout the years. The Condition Assessment Report will also include recommendations on coating for the rehabilitated or replaced concrete.
 - Associated costs for repair, rehabilitation, or replacement to be included for each recommendation. A determination of remaining useful life and a cost analysis of repair versus replacement will be included.
- The final recommendation for the design will be based on recommendations presented in the Final Condition Assessment Report and the District's input.
- No California Environmental Quality Act (CEQA) investigation is necessary. This project falls under categorical exemption from CEQA requirements; Existing Facilities, Section 15301(b). The District will file documentation related to CEQA.

3) Phase 3 – Design – 60%, 90%, 100%

- Design drawings and specifications shall be provided at 60, 90% and Final.
 - Design plans and specifications will be based on the recommendations for replacement or rehabilitation of the components in the secondary clarifiers identified in the Final Condition Assessment Report

- Specifications shall include the District's standard front-end specifications (inclusive of bid schedule, summary of work, and measurement and payment section) and any required technical specifications.
- Design review meetings for the 60% and 90% Design Submittals.
- Engineer's Estimate/Opinion of probable construction cost (OPCC)
- One full set of stamped and signed final plans and specifications in PDF format ready to bid.

4) Phase 4 – Bidding and Construction Phase

- Bidding Phase
 - Attendance of Pre-Bid Meeting.
 - Review and respond to bidder request for information (RFI's)
 - Preparation of addendums for the project.
- Construction Phase
 - Attendance at the project kick-off meeting.
 - Review and respond to contractor submittals with one re-review on each anticipated submittal.
 - Attendance at (5) five construction meetings, and (3) three site visits.
 - Review and respond to RFI's.
 - Preparation of project record drawings based on Contractor's red line markups.
 - Create a final punch-list with the District and the contractor's representative of all project work.
 - Conduct a final inspection with the District and the contractor's representative of all project work.

Meetings with District staff during the course of the project should be included. The below are deliverables required of the selected firm:

- Condition Assessment Report – Draft and Final.
- Final Design Plans – 60%, 90%, and Final
- Front End and Technical Specifications – 60%, 90%, and Final
- One full set of stamped and signed final plans and specifications in PDF format ready to bid.
- Engineer's Estimate/ OPCC
- As-Built Record Drawings
- All digital files (AutoCAD dwgs, MS Word, MS Excel, etc.) for the project to be submitted.

IV. MINIMUM CONSULTANT QUALIFICATIONS

Consultant shall provide information to verify the following minimum qualifications:

- 1) Condition Assessment, design, and construction management experience related to the wastewater processes in a setting similar to the proposed project environment, with a value of at least \$1 million. Experience with condition assessments of structural,

electrical, and mechanical components for a rectangular clarifier. Experience with structural concrete repair and rehabilitation for tanks and walkways.

- 2) Professional liability insurance in the amount of \$1 million.
- 3) Project manager shall have sufficient experience in the assessment, design and construction of either rectangular primary or secondary clarifiers, with a preferable minimum of 5 years' experience.
- 4) Ability to execute the standard Professional Services Agreement (Attachment D).
- 5) Project manager must be a registered Civil Engineer in the State of California.

V. PROPOSAL REQUIREMENTS

- 1) Legal name of firm with address, telephone number and the name of at least one principal.
- 2) Project understanding and approach, including resource capacity to perform work on several projects simultaneously.
- 3) A recommended scope of work which clearly displays an understanding of the project, using as a basis the preliminary scope of work outlined above.
- 4) Names and resumes of individual(s) proposed to perform the services, including proof of professional registrations, as appropriate.
- 5) Description of the firm's internal quality control process.
- 6) Names, qualifications, and principals of any sub-consultants to be utilized in providing the service(s).
- 7) References for three (3) recently completed projects of similar size and scope, including contact person and telephone number.
- 8) Sample of a Condition Assessment Report for a recently completed wastewater process project evaluating the condition of electrical, mechanical, structural components and provide recommendations with associated costs for either replacement or rehabilitation.
- 9) Certificate of professional liability insurance.
- 10) Schedule of Rates and Fees.
- 11) List any assumptions and inclusions/exclusions.

VI. EVALUATION CRITERIA

Proposals will be evaluated based upon the following:

- 1) The quality of performance on past projects, including those on which the proposed team has worked together.
- 2) Expertise and experience in the condition assessment for structural concrete and, mechanical and electrical equipment for wastewater rectangular clarifiers as demonstrated by reference check.
- 3) Demonstration of understanding project scope, objectives, and potential solutions.
- 4) The ability to work within established budgets.
- 5) The ability to provide a comprehensive and understandable scope of work.
- 6) The overall quality and constructability of construction plans.
- 7) Cost of proposal in terms of overall value to the District
- 8) The firm's history and resource capacity to perform the requested service.
- 9) The experience and qualifications of assigned and use of sub-consultants.

Interviews with selected consultants maybe conducted as a part of the RFP review process.

VII. SCHEDULE

A scope of work is included to assist you in the preparation of your proposal. Failure to submit information in accordance with the requirements in this RFP may be cause for disqualification.

For questions, or to arrange a site walk (optional) or meeting before the proposal deadline, contact Alex Leu, PE at 818-251-2144 or via email at ALeu@lvmwd.com.

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| Request for Proposal Issued | December 1, 2022 |
| Pre-Proposal Site Walk or Meeting | By request (Optional) |
| Request for Proposal Due Date | January 20, 2023, 4 PM |
| Acceptance of Proposal (Board meeting) | March 6, 2023 |

Please submit one (1) digital copy of your proposal to ALeu@lvmwd.com no later than 4:00 p.m. on January 20, 2023.