



REQUEST FOR PROPOSALS

FOR

Tapia Water Reclamation Facility Summer Season Waste Load Allocation Compliance Design and Services During Construction

PROPOSALS DUE by 3:00 p.m., April 5, 2019

LAS VIRGENES – TRIUNFO JOINT POWERS
AUTHORITY
4232 LAS VIRGENES ROAD
CALABASAS, CA 91302
818.251.2100

March 2019

REQUEST FOR PROPOSALS
Las Virgenes – Triunfo Joint Powers Authority

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ATTACHMENTS

- Compliance Method Study Technical Memorandum
- Preliminary Design Report for Summer Flow Augmentation of Malibu Creek
- Mitigation Monitoring and Reporting Plan for the Summer Flow Augmentation of Malibu Creek
- CEQA Initial Study and Mitigated Negative Declaration for the Summer Flow Augmentation of Malibu Creek
- Standard Consultant Agreement

I. BACKGROUND INFORMATION

The Las Virgenes – Triunfo Joint Powers Authority (JPA) was formed between the Las Virgenes Municipal Water District (LVMWD) and the Triunfo 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 (WRF), the Rancho Las Virgenes Composting facilities, approximately 60 miles of trunk sewers, and an extensive recycled water transmission and distribution system.

The Tapia WRF was originally constructed to treat 0.5 million gallons per day (MGD). Several expansions have increased the plant to a capacity of 12 MGD, treating wastewater to the tertiary level. Tapia currently treats approximately 7.0 MGD adwf, which is disposed of through three different means: recycled water use, discharge to the Los Angeles River, or discharge to Malibu Creek. Discharges to Malibu Creek and the Los Angeles River are regulated under a National Pollutant Elimination System (NPDES) permit issued by the Los Angeles Regional Water Quality Control Board (LARWQCB). Due to the recent development and implementation of new Total Maximum Daily Loads (TMDL) to protect benthic macroinvertebrates in Malibu Creek, the permit limits for nutrients discharged to Malibu Creek have been drastically reduced making discharge of effluent from Tapia impractical.

In 2016, the Joint Powers Authority Board selected the use of indirect potable reuse of Tapia's effluent as the preferred method to attain regulatory compliance through a project known as "*Pure Water Project Las Virgenes – Triunfo.*" A new Advanced Water Treatment Plant (AWT) is to be constructed which will produce purified water from Tapia's effluent, which will be used for surface water augmentation, and eventually, treatment and distribution to potable water customers. The implementation of indirect potable reuse will eliminate almost all discharge of Tapia's effluent. However, discharge to Malibu Creek will be required during certain periods to augment flow for the protection of endangered species.

In June of 2017, the LARWQCB approved a new NPDES permit for Tapia. Limits established by the new permit for total nitrogen (TN) and total phosphorous (TP) discharged to Malibu Creek are seasonal. In the winter season (November 16-April 14), the TN limit is 4.0 mg/L and the TP limit is 0.20 mg/L. In the summer season (April 15-November 15) the TN limit is 1.0 mg/L and the TP limit is 0.10 mg/L. The permit recognized that the JPA's plan for compliance with the TMDL nutrient limits will be achieved through indirect potable reuse and recycled water use, essentially eliminating the need to discharge. A time schedule of 13.5 years was provided for construction of the AWT facilities.

The permit also contains a prohibition on discharges from Tapia to Malibu Creek from April 15 to November 15 each year, with three specific exceptions. One of these exceptions is a requirement to augment flow in Malibu Creek such that 2.5 cfs of maximum total flow is measured at downstream Los Angeles County gauging station F-130-R. This requirement is in place to sustain steelhead trout habitat during dry periods. To comply with this requirement, staff regularly monitors the flow at the gauging station and when the flow drops below 2.5 cfs for three consecutive readings, permission is requested from the LARWQCB to begin discharge. Once permission is obtained, flow is introduced into the creek in increasing increments until the desired flow at the gauging station of 2.5 cfs is reached.

The new summer season discharge limits of 1.0 TN and 0.10 TP to Malibu Creek are scheduled to go into effect on May 16, 2022 and Tapia's discharge for flow augmentation will be required to meet these limits. In February of 2016, Stantec was obtained to prepare a Technical

Memorandum, which evaluated three treatment options that could be implemented to meet the new summer season requirements. A copy of this Technical Memorandum is included with this RFP. Stantec also completed a preliminary design report and CEQA analysis resulting in a Mitigated Negative Declaration (copies attached).

The anticipated scope of the project includes:

- The installation of approximately 1,270 feet of new 8-inch potable water pipeline and appurtenances, including hanging pipe on an existing bridge. The pipeline needs to be installed with equipment mounted to or suspended from the bridge to prevent impacts to the creek below.
- Modifications to the existing effluent pond to allow treatment of potable water to achieve new permit limits.
- Installation of a sodium hypochlorite and sodium bisulfite feed system.
- Installation of analyzers for total chlorine, ammonia, nitrate, and dechlorination.
- Installation of a new programmable logic controller and connection to Tapia's SCADA system.
- Installation of a new conduit duct bank from the Tapia entrance gate to the chemical building with several intercept points to allow for better communications with gate and camera.
- Installation of new duct banks for chemical feed lines at Tapia. The scope includes new banks and feed lines for sodium hypochlorite from the chemical building to the chlorine contact channel, balancing pond, and RAS channel.

The scope of work for this RFP requires the consultant to:

1. Using the preliminary design report and CEQA documentation as a reference, prepare plans and specifications for bidding and construction of facilities to convey and treat potable water to meet the summertime limits that will go into effect in May of 2022.
2. Provide services during bidding and services during construction for this project.

II. SCOPE OF WORK

The proposed scope of work includes the following tasks; however, the consultant should include additional tasks as necessary for the ultimate success of the project:

1. Summer Season Compliance construction design
 - Using the preliminary design report and CEQA documentation as guidelines, provide complete, ready to bid, plans and specifications necessary to construct the recommended facilities.
 - Identify and assist in the acquisition of permits necessary to complete the project including permits from L.A. County (bridge Pipeline and roadway excavation), Caltrans, SCAQMD, and a Coastal Development Permit if necessary. It is anticipated that construction methods will be chosen which avoid disruption of the Malibu Creek and so a Streambed Alteration Agreement will not be necessary.
 - Five (5) hard copies of the final plans and specifications shall be submitted to the JPA, as well as a digital copy of both. (Specifications shall be in MS Word format, drawings are to be in AutoCAD format).
 - Plans and specifications shall include CEQA mitigation measures and incorporate construction methods recommended in the CEQA document. Impact to the creek bed below the bridge is to be avoided.

- Treatment plant operations should have minimal interruption during the project. Some items of work may need to be scheduled to occur during certain timeframes to minimize impacts.
 - Provide support services during bidding and construction.
2. Receive and incorporate JPA staff input/direction.
 3. Perform site visits and meetings with District staff as necessary.
 4. Attend and/or present at JPA Board meeting as necessary (assume one meeting).
 5. Other proposed services and tasks.

III. SERVICES OR DATA PROVIDED BY DISTRICT

The District will provide the following data, access, services or resources:

- Access to the facilities.
- Available records.
- District staff to answer questions.

IV. MINIMUM CONSULTANT QUALIFICATIONS

- The selected firm shall have staff registered as a State of California Professional Engineer.
- The District's standard Consultant Agreement is included as an attachment. The consultant shall have the ability to execute the agreement in this form Professional liability insurance in the amount of \$2 million.
- Proven experience on at least three recently completed projects of scope.

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.
- 3) A recommended scope of work, which clearly displays an understanding of the project, including a proposed schedule.
- 4) Provide an itemized list of cost for the investigation, evaluation, identification of options, and recommendation listed in the scope of work.
- 5) List of assumptions or recommended services that are not a part of the proposal.
- 6) Names and résumés of individual(s) proposed to perform the services, including proof of professional registrations, as appropriate.
- 7) Names, qualifications and principals of any sub-consultants to be utilized in providing the service(s).
- 8) References for three recently completed projects of similar scope, including contact person and telephone number.
- 9) Description of the firm's internal quality control process.
- 10) Certificate of professional liability insurance.
- 11) Cost to perform the services, a schedule of rates and any anticipated rate changes. The costs and rate schedule shall be provided in a separate package.

VI. EVALUATION CRITERIA

Proposals will be evaluated based upon the following:

- 1) A comprehensive and understandable Scope of Work.
- 2) Expertise in performing the Scope of Work.

- 3) The quality of performance on similar past projects, including those on which the proposed team has worked together.
- 4) The ability to meet time schedules and complete the work within established budgets.
- 5) The firm's history and resource capacity to perform the requested service.
- 6) The experience and qualifications of assigned personnel.
- 7) The cost of proposal.

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

VII. REQUEST FOR PROPOSAL SCHEDULE

Request for Proposals	March 6, 2019
Pre-proposal Meetings	If requested by consultant
Proposal Due Date (3:00 p.m.)	April 5, 2019
Interviews if necessary (week of)	April 15, 2019
Acceptance of Proposal (Board meeting)	April 29, 2019

Please submit five (5) physical copies and one (1) digital copy of your proposal no later than 3:00 p.m. on April 5, 2019 by mailing or delivering them to:

Attn: Brett Dingman, P.E.
Las Virgenes Municipal Water District
4232 Las Virgenes Road
Calabasas, CA 91302

For questions, or to arrange a tour. Please contact Brett Dingman (818) 251-2330, bdingman@lvmwd.com.