

NOTICE FOR PROFESSIONAL SERVICES
2020-PROF-1-ENG

Pursuant to the provisions of HRS 103D Procurement of Professional Services, the County of Kaua'i hereby provides public notice to invite persons engaged in the professional services listed below to submit current statements of qualifications and expressions of interest:

Wailua Homestead Wells A & B Evaluation of Granular Activated Carbon Treatment:

Provide services to assist the County of Kaua'i, Department of Water in evaluating the Wailua Homesteads Wells A & B Granular Activated Carbon (GAC) treatment system. The Department of Health (DOH), Safe Drinking Water Branch (SDWB) has indicated as follows:

"In preparation for our sanitary survey of the subject system in 2020, the Safe Drinking Water Branch (SDWB) staff has been reviewing various legacy issues or facilities within the system. The Wailua Homesteads Wells A & B GAC facility has been in operation for roughly twenty years due to the documented presence of mercury leaked from a Byron Jackson well pump. Untreated well water quality data during this time has shown periodic detections of mercury in both wells, occasionally exceeding the State Maximum Contaminant Level (MCL) of 2 ug/L. Treated water quality data, however, has always been below detection limits, implying that GAC treatment may still be working.

The past record of treatment notwithstanding, it is likely that the existing GAC media's treatment capability is close to being exhausted, and that a serious breakthrough of mercury into the system could occur. There is currently no monitoring data to evaluate this possibility. Moreover, it is also likely that 20 years of biological activity within the GAC contactors is reducing available adsorption sites, not only further degrading the GAC's mercury treatment capabilities, but introducing bacteria into the distribution system due to media sloughing. While a target chlorine residual of between 0.3-0.4 mg/L has been adequate to maintain acceptable bacteriological populations in the system, this multi-barrier technique should not be a substitute for proper maintenance of the upstream GAC treatment.

We recommend that a consultant be retained to prepare a technical memo or report identifying a recommended solution to these mercury contaminated wells. DOW management and staff should be in agreement with the recommended solution. The technical memo or report shall be submitted for SDWB's review and concurrence. The consultant should have experience with GAC treatment and mercury contamination of drinking water."

Proposed scope of work:

1. Summarize the history of these wells from inception, mercury contamination, assumed/proven source of contamination, GAC treatment, conditional approval, repairs, carbon change out, etc.
2. Update monitoring data and clarify where and when samples were taken
3. Provide further detail on the current operation of the GAC facility, including but not limited to Operation and Maintenance manual detailing monitoring, flushing, GAC change out determination/frequency/disposal, etc.
4. Provide information on monitoring compliance of the wells and GAC facility in accordance with New Source Conditional Approval, as well as compliance with monitoring schedules in SDWIS/State to ensure that they are consistent with the New Source Conditional Approval or later correspondence. SDWB staff will assist with this work item.
5. Provide an analysis and assessment of the remaining carbon bed life.
6. Provide an analysis of possible alternatives or options for the future operation of these wells and the recommended option. Some potential options include, but are not limited to:
 - a. If the pump is still at the bottom of the well, encase the old pump in concrete with adequate remaining screened casing to maintain expected well capacity. The existing pump will have to be pulled and bowl elevations adjusted;
 - b. Replace carbon;
 - c. Remove GAC treatment;
 - d. Reduce monitoring due to a history of non-detection of mercury in the raw and/or treated water; or
 - e. Continue operating GAC if bed evaluation shows remaining life before breakthrough.

The following requirements pertain to all Statement of Qualifications (SOQ's) submitted. Entire SOQ package shall not exceed 20 pages, printed on one side, using a minimum of size 12 font. SOQ's should identify the area(s) of professional services provided by the proposer, and include a description of the proposer's firm, the qualifications and related experiences of the principals and staff members, and supporting data and information as they relate to the proposed subject-matter areas. Use of Federal Form SF 330 or State Form DPW 120 with supplemental information, where appropriate, is encouraged. SOQ's should include, but not be limited to, the following information:

- A. The name of the firm or person, the principal place of business, and location of all of its offices;
- B. The age of the firm and its average number of employees for the past five years;
- C. The education, training, and qualifications of key members of the firm;
- D. The education, training, and qualifications of key members of the associate firms for subcontracted work;
- E. The names and phone numbers of up to five clients who may be contacted, including at least two for whom services have been rendered during the preceding year;
- F. Examples of projects, performed by the firm, which best illustrate the firm's ability to complete contracts within the category of interest. A minimum of 2 example projects or assessments must have been done within the past 10 years.
- G. Any promotional or descriptive literature which the firm desires to submit, and
- H. Submit Quality Assurance Procedures (this item is important and submittals will be rejected without it).

The furnishing of consultant services shall comply with the General Terms and Conditions for Professional Services Contracts, dated January 1, 2019. A copy of the document can be found at www.kauaiwater.org.

Expressions of interest, SOQ's, and accompanying information must be received by the DOW addressed to the Manager & Chief Engineer, Department of Water, County of Kaua'i. All submittals must be received in **ELECTRONIC FORM ONLY** via www.publicpurchase.com no later than 4:30 p.m. (HST), **Friday, March 6, 2020**, and shall include the following reference: 2020-PROF-1-ENG – Wailua Homestead Wells A & B Evaluation of Granular Activated Carbon Treatment – Company's name (for example: 2020-PROF-1-ENG Wailua Homestead Wells A & B Evaluation of Granular Activated Carbon Treatment -XYZ Co.)

The expression of interest shall include:

1. Project number and title;
2. Name of the person to which the resume(s) is/are to be directed.
3. Signature of an authorized representative.

Awards shall be electronically posted on the Department of Water website within seven (7) days of the contract award.

Questions may be directed to Ms. Christine Erorita at (808) 245-5409.

(POSTED via www.kauaiwater.org , www.publicpurchase.com , www.hands.ehawaii.gov , 02/05/20)