



Jefferson County Environmental Services Department

Qualifications-Based Selection Program

REQUEST FOR QUALIFICATIONS STATEMENT

TO: All eligible consultants in the "Large Scale Wastewater Facilities and Line Work - Design Engineering and Construction Management" project category:

FROM: Jefferson County Environmental Services Department
Daniel White, Deputy Director

DATE: September 9, 2022

RE: Request for Qualifications Statement

Your firm is invited to submit your Qualifications Statement to become eligible to compete for consulting engineering and construction management services relative to the following upcoming project:

UV REPLACEMENT AND MECHANICAL AND ELECTRICAL IMPROVEMENTS - VALLEY CREEK WRF

Attached to this memo you will find the following:

1. A list of materials and information that should be included with your Qualifications Statement.
2. A general definition of the Preliminary Scope of Work.
3. Project Specific Selection Criteria/Grading Sheet
4. A Schedule of Activities for the selection process.

Your Qualifications Statement materials should be forwarded to the following address to be received no later than **5:00 p.m. on September 19, 2022** Qualifications Statements should be mailed or hand delivered. Consultants should submit at least **five (5)** copies of their Qualifications Statement. Qualifications Statements to:

Mr. Daniel White, P.E.
Deputy Director
Jefferson County Environmental Services Department
Suite A-300
716 Richard Arrington, Jr. Blvd. N.
Birmingham, Alabama 35203
205-214-8610
whited@jccal.org

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REQUIREMENTS FOR QUALIFICATIONS STATEMENT

**PROJECT NAME: UV REPLACEMENT AND MECHANICAL AND ELECTRICAL
IMPROVEMENTS - VALLEY CREEK WRFs**

Qualifications Statements should include the following information:

1. Name, address, and brief description of the firm.
2. Resumes of key personnel to be assigned to this project.
3. Statement regarding Firm's particular abilities and qualifications related to this project.
4. Description of other projects done by the Firm which are pertinent to this project. Include reference contact information.
5. Other information which you feel may be useful and applicable to this project.

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PRELIMINARY SCOPE OF WORK

PROJECT NAME: UV REPLACEMENT AND MECHANICAL AND ELECTRICAL IMPROVEMENTS - VALLEY CREEK WRF

Project Background:

The Valley Creek Water Reclamation Facility (WRF), NPDES Permit No. AL0023655, is located at 3923 Clear Water Drive Bessemer, Alabama 35023. The WRF is permitted at a 85 million gallons per day (MGD) design flow and has the biological capacity to treat peak flows in excess of 170 MGD. The monthly average flow varies between 39.5 MGD and 66.5 MGD. The existing ultraviolet (UV) system is a Trojan 4000 Plus and was placed in service 7/05/2005. The summer *E. coli* monthly average limit is 126 col/100 mL with a daily maximum of 298 col/100 mL.

Project Description:

The goal of the project is to improve the reliability of wastewater treatment at the facility by identifying and replacing equipment with a high risk of failure due to age, condition, and/or lack of OEM support with more reliable, energy efficient, and standardized systems. The department has identified the UV disinfection systems as the major system in need of replacement. Other systems, equipment units and components, and facility needs have also been identified.

Consultant's Scope of Work:

The general scope of work will include detailed engineering designs and plans for the construction of the recommended improvements, bidding services including UV pre-selection bid, and construction observation and management. The detailed design scope of work may include: gas flare and piping improvements including new valves and new piping configuration through the scrubber system; plant water system improvements, instrumentation and control improvements; electrical improvements to provide a redundant power feed to the UV system and effluent pump station; electrical equipment replacements for critical assets – obsolete medium voltage Benshaw soft starters, corroded MCC's in headworks and primary clarifier buildings, obsolete intermediate clarifier and 1st-stage effluent pump Robocon VFD's; evaluation of the reliability of electrical systems, ventilation improvements where electrical corrosion is severe; Citect integration; and design of other upgrades as desired by the County and recommended by the Consultant.

**Qualifications-Based Selection Program
SELECTION CRITERIA/GRADING SHEET**

**PROJECT NAME: UV REPLACEMENT AND MECHANICAL AND ELECTRICAL
IMPROVEMENTS - VALLEY CREEK WRFs**

Firm Name: _____

Criteria	Rating	x	Weight	=	Total
Pertinent Design Experience: Evaluate firm's experience designing replacement UV systems and selecting UV systems by competitive bidding prior to final design.		x	25	=	
Pertinent Design Experience: Evaluate firm's experience designing process and equipment upgrades in similar wastewater treatment facilities.		x	20	=	
Key Personnel and Roles: Evaluate personal qualifications and professional skills of the individual team members designated for this project.		x	20	=	
Construction Management: Evaluate firm's ability to provide engineering construction management and observation.		x	20	=	
Other relevant issues: Evaluate importance of other relevant issues presented by the firm.		x	15	=	
Total Score					

Instructions for ESD Project Engineer:

Weight each category according to the needs of your project. A lower numerical value in a category indicates the category is less relevant to your particular project and a higher numerical value indicates that the category is very relevant to your project.

Instructions for Reviewers:

Assign the consultant a rating for each category on a scale of one (1) to five (5), with five being the highest. Multiply the rating by the predetermined weight for each category and enter the total.

Reviewer Signature

Date

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SCHEDULE OF ACTIVITIES

REVISED

PROJECT NAME: UV REPLACEMENT AND MECHANICAL AND ELECTRICAL IMPROVEMENTS - VALLEY CREEK WRFs

DATE	TASK
09/09/22	Request for Qualifications Statements distributed to all appropriately classified eligible consultants.
09/28/2022 5:00 PM	Deadline for interested consultants to return Qualifications Statements.
10/17/2022	Date to distribute notification to short-listed consultants advising them of the schedule and requirements for interviews*. Notification will also be sent to consultants who are not short-listed.
11/04/2022	Date to conduct consultant interviews and rank short-listed consultants.
11/09/2022	Date to notify short-listed consultants of selection.

* Final Selection may be made from the Qualification Statements