

Exhibit B. Scope of Services

Repair of Created Stormwater Treatment Wetland

RFQ 19-035

1.1 OVERVIEW

The University of Houston - Clear Lake (UHCL) requests responses to this Request for Qualifications (RFQ) for award of a Services Contract to a Contractor(s) to design and conduct repairs to a created stormwater treatment wetland system located on the campus of the UHCL (hereafter referred to as the "Project"). The wetland system is located at latitude: 29.582733, longitude: -95.101358 on the UHCL campus (Figure 1 – Exhibit A).

1.2 CONTRACT TERM

Service for the Project shall begin upon execution of the Contract. The completion date for the Project shall be November 1, 2019.

1.3 COMPENSATION

To be negotiated once the UHCL selects a respondent based on qualifications. Failure to arrive at mutually agreeable terms of a contract with the most qualified respondent shall constitute a rejection of the UHCL's offer and may result in subsequent negotiations with the next most qualified respondent. The UHCL reserves the right to reject any or all responses.

1.4 BACKGROUND

The UHCL constructed an experimental stormwater treatment wetland in 2007 with funding from the Galveston Bay Estuary Program (Figures 1 and 2 - Exhibit A). The 0.32 acre wetland complex is composed of a primary wetland complex (0.10 acres) and a secondary complex (0.22 acres) located immediately downstream which receives runoff from approximately 19 acres of the campus (Figure 2 and 3 – Exhibit A). The wetland cells were constructed by modification of the original pond located adjacent to the secondary wetland (Figures 3 and 4 – Exhibit A). The pond discharges through an elevated overflow drain pipe out to Horsepen Bayou.

In early March 2018, leaks in the confining levee separating the receiving pond and primary wetland complex were observed beneath the observational Gazebo located near the end of the observational boardwalk (Figures 5 and 6 – Exhibit A). It was believed that flooding from Hurricane Harvey in August 2017 and possible additional runoff from the construction of new buildings (e.g. STEM building) may have contributed to the erosion of the levee. Continued erosion is occurring at the water control structure between the wetland and the receiving pond and it is likely without repairs the structure will eventually collapse. UHCL would like to repair the levee and replace the spillway with a more permanent stable and effective low maintenance drainage system. If feasible, UHCL would also like to replace the structurally compromised educational boardwalk that will likely be removed during levee repairs and installation of new water control structure.

SECTION II – STATEMENT OF WORK

2.1 DESCRIPTION OF SERVICES

The selected Contractor must provide services which shall include, but are not limited to, the requirements contained in this RFQ. Services set forth that contain the words “must,” “will,” or “shall” are mandatory and must be provided as specified with no alterations, modifications or exceptions. Services set forth that contain the words “may” or “can” allow Respondents to offer alternatives to the manner in which the Services are provided. The selected Contractor will provide assistance to the UHCL for activities described below for the Project stated within this RFQ.

2.2 SCOPE OF WORK

The primary objectives of the proposed project is to design a comprehensive approach that will be implemented to repair the constructed stormwater wetland levee which is leaking and install a new water level control and/or overflow pipe/ structure, and optionally repair and reinstall the associated educational boardwalk.

The primary identified tasks that will need to be completed include 1) repairing the existing wetland levee system, 2) conducting necessary engineering analyses and calculations to construct the appropriate sized drainage structure, 3) installing a new water level control structure capable of handling high-flow flood/rainfall events (e.g. 100 year) and associated runoff volumes from the upstream campus watershed, and 4) optionally if feasible repairing the educational gazebo and boardwalk after reconstruction and repair of the levee and installation of drainage systems. Installing the water level control structure can be accomplished using several approaches including removing and/or replacing the current water control structure with a flashboard riser and corrugated aluminum pipe (Figure 7 – Exhibit A). The successful applicant will work with the project officer to select the final alternative design. The successful applicant shall provide at a minimum a 10 year warranty on all labor, materials and workmanship that covers leakage or erosion associated with installed structures and/or repairs to the levee and associated features.

2.3 MINIMUM QUALIFICATIONS

Applicant team should possess a P.E. and/or P.G. and associated experience in the design and construction of wetlands including evaluation of associated surface water hydrology, hydraulics, soils and associated design criteria.