

CITY OF TUSCALOOSA)
STATE OF ALABAMA)

**ADDENDUM #1
(A18-0990)**

**RE: Request for Proposals for: Engineering and Related Services for
Lake Tuscaloosa Aerator Valve and Crib Intake**

DATE ADDENDUM ISSUED: November 27, 2019

**DUE DATE: Proposals are due by close of business December 13, 2019 before
5:00 p.m. CST.**

Addendum #1

General

Although labeled a request for proposal, the City is treating this as a request for qualifications. We are not providing enough information for prospective firms to provide detailed proposals. We are seeking a firm with applicable experience for work of this type.

The Lake Tuscaloosa dam and associated appurtenances were built in 1970. The City does not have provision to drain Lake Tuscaloosa. The work involved in this project will be underwater construction.

For security reasons, the City chooses not to provide more detail than necessary at this time.

The City will enter into a Master Services Agreement (MSA) with the selected firm. Each distinct project phase will be commissioned as a Task Order Directive (TOD). The first TOD will be to review existing plans, studies, and prior inspections to allow the engineer to develop recommendations for the design phase (the second TOD).

Aerator

The aerator pipe is a 24-inch cement-lined cast iron pipe with a 24-inch bellmouth fitting on the upstream end. The bellmouth is housed in a crib structure made of 2"x6" creosoted pine. The aerator pipe is approximately 950 feet in length.

At normal pool, the invert of the aerator pipe at the bellmouth fitting is 98 feet below the surface of the lake. The water surface does not vary much from normal pool, normally ranging between a foot below normal pool to two or three feet above normal pool.

The aerator intake crib is located approximately 600 feet from the raw water intake structure (nearest point with existing electrical service).

There is an operable valve on the downstream end of the aerator pipe immediately upstream of the aerator assembly.

The aerator pipe has not been inspected since entering service in 1970.

Intake Structure

The intake structure is a square concrete structure with three intake openings: low, mid, and high. The low suction intake is a wood box crib system. The box intake is constructed with 2"x6" creosoted pine for the frame and 1"x4" creosoted pine to form the grate. The four corners are designed with rock crib anchors to provide weight (essentially box structures filled with rock). The entire structure is bolted to a concrete slab. The approximate overall dimensions of the crib are 16.5' long x 8' wide x 9' high. The bottom of the structure is approximately 50 feet below the surface of the lake (at normal pool elevation).

The intake was inspected in 2009. The wood members of the intake crib were found to be in good condition. But the metal fasteners had deteriorated thus causing some of the cribbing boards to become loose.



END OF ADDENDUM #1