

**City Council
Agenda Memo**



**City Council
Meeting Date: Sep 25, 2014**

TO: Larry D. Gilley, City Manager

FROM: Rodney Taylor, Assistant Director of Water Utilities

SUBJECT: Oral Resolution Authorizing Amendment No. 3 to the Professional Engineering Services Agreement with Freese and Nichols, Inc. for Dam Upgrade Program for Lake Kirby Dam.

GENERAL INFORMATION

On June 12th, 2008 the Abilene City Council authorized a professional services contract with Freese and Nichols, Inc. (FNI) for the Dam Upgrade Program for Fort Phantom Hill Dam, Lake Abilene Dam, and Kirby Lake Dam (Contract). FNI performed inspections, analysis and evaluations and then provided deliverables such as O&M manuals, Emergency Action Plans and evaluation reports of recommended improvements. The recommended improvements are supported by the Texas Commission on Environmental Quality (TCEQ). Engineering design for Dam Upgrade Program for Fort Phantom Hill Dam and Lake Abilene Dam associated with Amendment No. 2, dated June 13, 2013, is underway. Second phase engineering services related to Dam Upgrade Program for Lake Kirby Dam (LKD) will be accomplished under Amendment No. 3.

Amendment No. 3 will provide for the design of improvements to LKD which are needed to address several areas of concern. The upstream slopes of the dam and west levee have eroded due to wave action and must be repaired. Excessive vegetation must be cleared along the downstream toe of dam to improve drainage and allow for thorough dam safety inspections. The dam crest elevation is not sufficient to meet TCEQ dam safety criteria for hydraulic adequacy and therefore the dam crest will be raised in elevation. The Texas Department of Transportation has requested the closure of two access points along State Highway 83/84 due to traffic safety concerns, so a safe alternate access point to the west levee will be established. The existing roadway crossing the spillway and along the dam crest is narrow, non-standard and inadequate for public motorized vehicular traffic, so access to that roadway will be restricted to allow only pedestrians, non-motorized vehicular traffic, and maintenance vehicles. With the approval of Amendment No. 3 FNI will prepare plans, specifications, and contract documents to address the above described issues and other minor items. Included are bid phase services in coordination with City staff and Construction Phase Services such as Engineer supervision of construction, Resident Project Representation, project management, and contract administration. The total fee will be computed on the basis of the Schedule of Charges and shall not exceed a total value of \$574,145.00.

FUNDING/FISCAL IMPACT

Funding for Amendment No. 3 includes \$500,000 from the 2012 CIP, 8030-01-10, Lake Kirby Dam and Levee Repairs, and the excess will use existing Water Department funds (Unrestricted, designated for capital projects).

STAFF RECOMMENDATION

Staff recommends approval of Amendment No. 3.

Prepared by:

Name Rodney Taylor

Title Asst. Water Director

Item No. 7.1

Disposition by City Council

- ☐ Approved Ord/Res# _____
- ☐ Denied _____
- ☐ Other _____

City Secretary