

**Meeting Date** (?) 11/08/2016

**Subject Matter**\* (?) Design contract for ASR project  
This must match rolling agenda entry

**Department of Origin**\* WATER SERVICES

**Submitted By**\* Jayson E. Barfknecht

**Type of Meeting**\*  BCD  Special  Regular

**Classification**\*  Public Hearing  Consent  Statutory  Regular

**Ordinance**\*  None  First Read  Second Read  First & Only Read

**Strategic Initiative**\*  Public Safety  Economic Development  Service  Quality of Life  Infrastructure

**Agenda Item Description**\* Consider authorizing the Mayor to sign a professional services contract with CDMSmith Inc in an amount not to exceed \$620,000 for the first phase of the Aquifer Storage and Recovery (ASR) project to perform a feasibility study and assessment and piloting phase for the project.

**Summary Statement**\* In the most recent State Water Plan, the City of Bryan has a recommended water strategy for an ASR project to provide water to meet future water demands for the City. This project ranked 13th out of 137 projects that were Recommended Water Strategy Projects from Region G. On August 23rd, the City Council approved the financial assistance with the Texas Water Development Board (TWDB) for the project. On October 11th, the City Council approved the issuance of bonds for the project with expected purchase of the bonds by TWDB on November 10th.

This professional services contract will consist of two parts: initial assessment and ASR pilot test. The initial assessment will consist of program development and coordination, data collection and review, well #10 evaluation, and conceptual ASR pilot test and ASR system design. The second part will consist of Well #10 pilot test design, permitting, bidding and construction phases, cycle testing and reporting, and O&M manual development for ASR system operation. The permitting for this project will be handled by Texas Commission on Environmental Quality (TCEQ).

The purpose of the first two parts of this contract and first phase of funding (\$2,291,640 available from the recent debt issued) is to determine how much and into what aquifer the ASR project will best work. Based on the results of this pilot study, the City of Bryan can move into the second phase of building and constructing the ASR well field. The funds remaining from the initial debt issuance and the professional services contract (\$1,671,640) will be used to retrofit well #10 or drill a new ASR well. The need to drill a new well will be determined once the assessment on well #10 is complete.

**Staff Analysis & Recommendation**\* Staff recommends approving the professional services contract to CDM Smith, Inc in an amount not to exceed \$620,000. The first phase of this project will provide information on how much water can be stored and recovered. It also will provide more information to estimate the long term yield for the well field to meet the long water needs for the City of Bryan.

**Options**\* (In Suggested Order of Staff Preference)

1. Approve the contract
2. Do not approve the contract (may require a penalty to TWDB)

**Funding Source**\* Recently issued debt

**Attachments** ASR Pilot Project Task 1 and 2 only.pdf 355.66KB

Please detail attachments and note attachments available for viewing in City Secretary's Office:  
1. Proposed contract for engineering services, including the scope of services

**Dept. Head Signature**

JAYSON E. BARFKNECHT 11/27/16

**Deputy City Manager Signature**

Hugh R. Walker

City Manager Signature

A handwritten signature in black ink on a light gray rectangular background. The signature is stylized and cursive, appearing to be the initials 'JH'.

City Attorney Signature

A handwritten signature in black ink on a light gray rectangular background. The signature is written in a cursive script and reads 'Janis K. Hampton'.