



CITY OF SUGAR LAND

Engineering Department

CIP Project Number: WA0902

Title: Sugar Creek Replacement Well

Project Phase: Land

% of Phase Completion



Cost for this Phase: \$ 130,000

Funding Sources: General Revenue

Project Manager: Shashi Kumar

Contractor: TBD

Consultant: Jones and Carter

Project Description:

Construction of a 2,000 to 2,500 GPM water production well, to replace the Sugar Creek On-site Well No. 1 (900 GPM) and Sugar Creek Off-site Well No. 3 (1,700 GPM). Land acquisition will be performed in FY2009, followed by design in FY2011 and construction in FY2012.

Justification: Sugar Creek Well No. 1 will be approximately 40 years old by the recommended replacement date and will have reached its useful life. Well No. 3 will be approximately 30 years old and is currently producing low levels of sand. Due to its limited access location, rehabilitation of Well No. 3 is not possible and abandonment is recommended when well failure occurs.

Updates: **December 2008**-This project is in the land acquisition stage. The process of land acquisition for the city is being evaluated and standard procedures are being identified. Once these procedures are determined staff will move forward with all land acquisition projects.

March 2009 – Jones and Carter, Inc. selected to prepare Preliminary Engineering Report of design of new water production well. Initial scope will include evaluation and cost estimates for an on-site well. If off-site well needed, the land needed for an offsite well will be selected under WA0901 – Groundwater Well Replacement.

June 2009 – Progress meeting held 5/13/09 to discuss consultant work effort to date and costs for an on-site water well. Based on field investigations and Jones and Carter, it appears that upgrades to electrical system to accommodate a new on-site water well may be more expensive than installation of an off-site well with additional plumbing and pipes. Therefore, consultant for WA0901 is pursuing an off-site well location for Sugar Creek. Once land is known, Jones and Carter will finish the Preliminary Engineering Report and compare on-site and off-site capital costs.

July 2009 – Jones and Carter will continue evaluating onsite well options. Kelly Kaluza Engineers will complete offsite well location under separate CIP project. Once a site is recommended, Jones and Carter will finish offsite evaluation.

August 2009 – Jones and Carter have completed 40% preliminary design of onsite well location. They will complete analysis of onsite and offsite well location cost comparison as soon as Kelly Kaluza Engineers have completed recommended offsite location.

September 2009 – no changes. Waiting on Kelly Kaluza to complete offsite location recommendation.

November 2009 – A final draft of the PER was received in Nov. 2009. The project is being closed-out.

December 2009 – Final version of the PER report is expected in January 2010.