

A G E N D A



Recommendation for Council Action (CCO)

Austin City Council		Item ID:	70670	Agenda Number	7.
Meeting Date:	May 18, 2017				
Department:	Capital Contracting Office				
Subject					
Authorize negotiation and execution of an amendment to the professional services agreement with CH2M HILL, INC., for additional professional engineering services for the Walnut Creek Wastewater Treatment Plant Secondary Process Improvements project in an amount of \$104,086.20 for a total contract amount not to exceed \$1,659,086.20.					
Amount and Source of Funding					
Funding is available in the Fiscal Year 2016-2017 Capital Budget of Austin Water.					
Fiscal Note					
A fiscal note is attached.					
Purchasing Language:	Original contract was awarded through the City's qualifications-based selection process.				
Prior Council Action:	September 27, 2012 – Council approved a professional services agreement with CH2M Hill, Inc.				
For More Information:	Inquiries should be directed to the City Manager's Agenda Office, at 512-974-2991 or AgendaOffice@ austintexas.gov . NOTE: Respondents to this solicitation, and their representatives, shall direct inquiries to Rolando Fernandez, 512-974-7749 or Garrett Cox, 512-974-9423.				
Boards and Commission Action:	May 10, 2017 - Recommended by the Water and Wastewater Commission on a vote of 9-0 with Commissioners Kellough and Michel absent. September 12, 2012 - Recommended by the Water and Wastewater Commission on a vote of 6-0-1 with Commissioner Fishbeck recusing.				
Related Items:					

MBE / WBE:	This contract was awarded in compliance with City Code Chapter 2-9B (Minority Owned and Women Owned Business Enterprise Procurement Program) by meeting the goals with 15.32 % MBE and 19.96 % WBE participation to date.
Additional Backup Information	
The Walnut Creek Wastewater Treatment Plant is permitted to treat and discharge an average daily flow of 75 million gallons per day with a peak flow of 120 million gallons per day. The plant currently averages between 50 and 55 million gallons per day with peaking flows in excess of 165 million gallons per day during large rain events. The plant effluent is used for non-potable water on the plant site, supply for the growing Water Reclamation Initiative program, with the remainder discharged into the Colorado River. Startup of the reuse water system added new effluent quality requirements, particularly turbidity limits, which the plant has struggled to meet during winter months.	
The Walnut Creek Wastewater Treatment Plant is generally divided into three treatment areas: the primary area which includes screening and settling of raw sewage; the secondary area that includes the activated sludge treatment process, clarification and disinfection; and the tertiary area that includes filtration.	
Since 2007, the Walnut Creek Wastewater Treatment Plant has faced increased difficulty in maintaining a stable, reliable process in the secondary treatment trains due to aging equipment and changing influent characteristics, particularly due to an increasingly significant alkalinity deficit.	
In 2012, the engineering firm of CH2M-Hill was retained to complete evaluation of the secondary treatment areas (aeration basins, secondary clarifiers, and chlorine contact basins) at the plant. CH2M-Hill completed a preliminary phase which evaluated the existing assets and made recommendation regarding process improvements and physical deficiencies in the secondary treatment areas. These recommendations included the repair and replacement of equipment that was determined to be at the end of its useful life, the addition of a chemical feed system to add alkalinity to the treatment process to support stable nitrification, and aeration basin diffuser and air line leak repairs.	
Final design of improvements is now nearing completion. Some additional design work has been identified by staff to address issues at the plant which include:	
• Cooling Pipe Material Change and Extension – Additional engineering design and drawings to replace cooling pipe with Polyvinyl Chloride and additional routing; • Collapsed Launder in Clarifier No. 5 – Design of structural repair to a recently collapsed launder in Clarifier No. 5. • Drainage Improvements between Aeration Basins – Structural design services to evaluate integrity of existing baffle wall in Aeration Basins 1, 2, 3, and 4 to accommodate new openings in the baffle wall to facilitate basin draining and cleaning. • 4 Valve Replacement Changes – Change an additional 30 additional valve replacements in the secondary complexes, including complete replacement of valves around the scum pumps. Additionally, permanent abandonment and sealing of 22 slide gates around Aeration Basins 1, 2, 3, and 4 and Chlorine Contact Basins in all three complexes. • Permanent Abandonment of existing backwash supply wet wells and sumps at Complex No. 1 chlorine contact basin – Permanent abandonment of sumps on either side of the Chlorine Contact Basin to prevent biological hazard due to stagnant wastewater.	
This request allows for completion of final design of the items above and authorization of funds for the construction phase of the project including solicitation. When bids are obtained staff will return to Council for authorization to enter into a contract with a general contractor for the construction phase of the project and to authorize funds for CH2M-Hill to perform engineering services during construction.	

In rehabilitation projects such as this one, it is common to run into issues that require additional preliminary engineering and final design. While it was anticipated in September 2012 that \$1,500,000 would cover the preliminary engineering, final design, construction and warranty phases, the preliminary engineering and final design work is actually considerably more due to the reasons identified in the project description. Once the additional final design work is completed the engineer will be better able to estimate their budget for services during construction, and we can return to Council with accurate information regarding construction phase services.

Final design is scheduled to be completed by the end of December 2017 and construction is expected to be underway in the third quarter of 2018.

This amendment has been approved by the City's Change Control Committee. The Change Control Committee was established to comply with Council Resolution No. 20120126-048, which required the establishment of consistent criteria and process to evaluate contractual changes for all contracts administered by the Capital Contracting Office. The Change Control Committee is comprised of management-level subject matter experts.

This project is managed by the Public Works Department.

CH2M Hill, Inc. is located in Austin, TX.