

Legislation Details (With Text)

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Title:	Thermal Hydrolysis Process Design				

Attachments:

Date	Ver.	Action By	Action	Result
11/14/2022	1	City Council Business Meeting	Approve	

Thermal Hydrolysis Process Design

Action:

Approve a contract in the amount of \$14,145,000.00 with PC Construction Company for Design-Build design services to construct the McAlpine Creek Wastewater Treatment Plan Thermal Hydrolysis Process project.

Staff Resource(s):

Angela Charles, Charlotte Water
David Czerr, Charlotte Water
Ron Hargrove, Charlotte Water

Explanation

- This contract is for design services and development of a guaranteed maximum price (GMP) for construction for a thermal hydrolysis process (THP) system at the McAlpine Creek Wastewater Treatment Plant, located in the Town of Pineville (adjacent to Council District 7).
- THP is an enhanced biosolids treatment process that destroys pathogens and reduces the volume of biosolids. This process supports the city's Strategic Energy Action Plan goals by enhancing biogas production and on-site energy generation.
- Charlotte Water will have the ability to diversify its management of biosolids products by implementing this system.
- On April 19, 2022, the city issued a Request for Qualifications (RFQ); six proposals were received.
- PC Construction Company is the best qualified firm to meet the city's needs on the basis of demonstrated competence and qualifications of professional services in response to the RFQ requirements.
- In the future, City Council will receive a request for the approval of the GMP for construction once it is established.

Charlotte Business INclusion

The city negotiates participation for Design-Build contracts after the firm is selected and scopes of work are defined for design and construction services. PC Construction Company has committed (\$835,170) or approximately 5.90% of the contract for design build design services to the following certified firms (Part G: Section 2.7 of the Charlotte Business INclusion Policy):

- Southeastern Consulting Engineers, Inc. (SBE) (\$401,000) (electrical engineering)
- Smart Electric Company, Inc. (WBE) (\$169,400) (electrical)
- CITI, LLC (MBE) (\$86,970) (instrumentation and controls)
- Richa Inc., dba Richa Graphics (MBE, SBE) (\$75,000) (document reproductions)
- Capstone Civil Engineering, Inc. (MBE, SBE) (\$50,000) (geotechnical services)

- Stewart Engineering, Inc. (MBE) (\$35,000) (land surveying)
- DiverseCity Services, LLC (MBE, SBE) (\$12,800) (outreach/CBI compliance assistance)
- Eloquent Creations Catering & Design Services, LLC (MBE, SBE) (\$5,000) (catering)

Fiscal Note

Funding: Charlotte Water Capital Investment Plan