

RESOLUTION 20-116 A

A RESOLUTION TO AUTHORIZE THOMAS AND HUTTON ENGINEERING TO DEVELOP A TECHNICAL MEMORANDUM REGARDING WASTE WATER TREATMENT PLANT EFFLUENT LAND APPLICATION SPRAY FIELD IRRIGATION

WHEREAS, the City of Spring Hill Board of Mayor and Aldermen approved a Professional Services Agreement with Thomas and Hutton Engineering (formerly Dempsey Dilling and Associates) for variety of professional engineering, design, and municipal support services; and

WHEREAS, the Spring Hill Wastewater Treatment Plant is in need of expansion and is being restricted from such until an alternative discharge method of an expanded system effluent is approved by the Tennessee Department of Environment and Conservation (TDEC); and

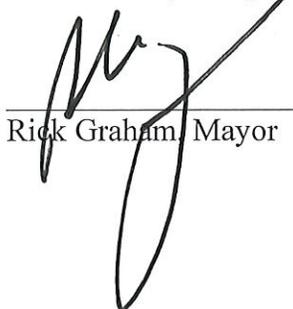
WHEREAS, through conversations between the City and TDEC, it has been recommended that the City locate and acquire property suitable for spray irrigation as a suitable sewer effluent discharge process; and

WHEREAS, to begin that process it is recommended that a technical memorandum be developed outlining the need for such a facility and certain criteria related to land evaluation for that purpose; and

WHEREAS, Thomas and Hutton Engineering has provided the City with a proposal to develop a technical memorandum as outlined more specifically in the attached Scope of Services titled Waste Water Treatment Plant Effluent Land Application Proposal for Engineering Services.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Mayor and Aldermen of the City of Spring Hill authorize Thomas and Hutton Engineering to provide Waste Water Treatment Plant Effluent Land Application Services for at a cost not to exceed \$9,800.00

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on this 17th day of August, 2020.



Rick Graham, Mayor

ATTEST:


April Goad, City Recorder

LEGAL FORM APPROVED:


Patrick Carter, City Attorney



DEMPSEY, DILLING & ASSOCIATES

an affiliate of

THOMAS & HUTTON

ENGINEERING | SURVEYING | LANDSCAPE ARCHITECTURE | GIS | CONSULTING



August 12, 2020

Mr. Victor Lay, City Administrator
199 Town Center Parkway
P.O. Box 789
Spring Hill, TN 37174

**Re: WASTEWATER TREATMENT PLANT EFFLUENT
LAND APPLICATION TECHNICAL MEMORANDUM
ENGINEERING SERVICES PROPOSAL**

Dear Mr. Lay:

Thank you for requesting a revision to our initial proposal dated May 22, 2020 for engineering services to develop a *Land Application Technical Memorandum*. The LATM will contain technical components for consideration when evaluating a tract of land to determine the suitability and capacity for land application of treated effluent. This LATM will contain requirements as outlined by Tennessee Department of Environment and Conservation (TDEC) such as buffer requirements, soils requirements, allowed land use, and future maintenance requirements which can then be utilized to determine the feasibility and suitability of certain identified sites. This LATM will provide the City with guidelines when considering sites, prior to performing an in-depth soils classification and engineering study, to determine the feasibility of land application via methods of buried drip irrigation and/or surface spray irrigation.

The LATM would be a tool to determine the potential capacity of a site as to possibly allow expansion of the WWTP's discharge by a volume of 2.5 MGD (5.0 MGD to 7.5 MGD). This discharge method could possibly be an alternative to additional discharge to Rutherford Creek if a correct site is identified and approved by TDEC. TDEC will require an in-depth study on any site being proposed for land application.

Should a site be identified which appears to be suitable for land application, based on the LATM guidelines, it would then be recommended (as an addendum to this LATM) to develop a Design Development Report (DDR) for submittal to TDEC requesting review and approval of the identified site. The DDR would require a boundary and topographic survey, environmental assessment and a soils investigation to determine the actual hydrologic soil capacities (performed by a soil scientist approved by TDEC). The DDR would be an in-depth engineering report with all required information to request TDEC's approval of the sites for land application. If the sites were approved by TDEC, the City could then begin to plan the needed expansion of the WWTP from 5.0 MGD to 7.5 MGD and associated land application infrastructure.

We propose to develop the LATM for a lump sum fee of \$9,800.00, under the current Terms and Conditions of our contract with the City of Spring Hill. We propose to begin work on the study immediately upon notification from the City and will complete the study within 30-days.

The parties agree and acknowledge that any of the parties hereto may execute this agreement by electronic signature, and the other party may rely upon such electronic signature as an original record of signature.

Sincerely,
**DEMPSEY, DILLING & ASSOCIATES, an affiliate of,
THOMAS & HUTTON ENGINEERING CO.**

By _____
Jerome Dempsey, P.E.
Principal/Regional Director

ACCEPTED DATE: _____, 2020

BY: _____
Authorized by City of Spring Hill, TN

TITLE: _____

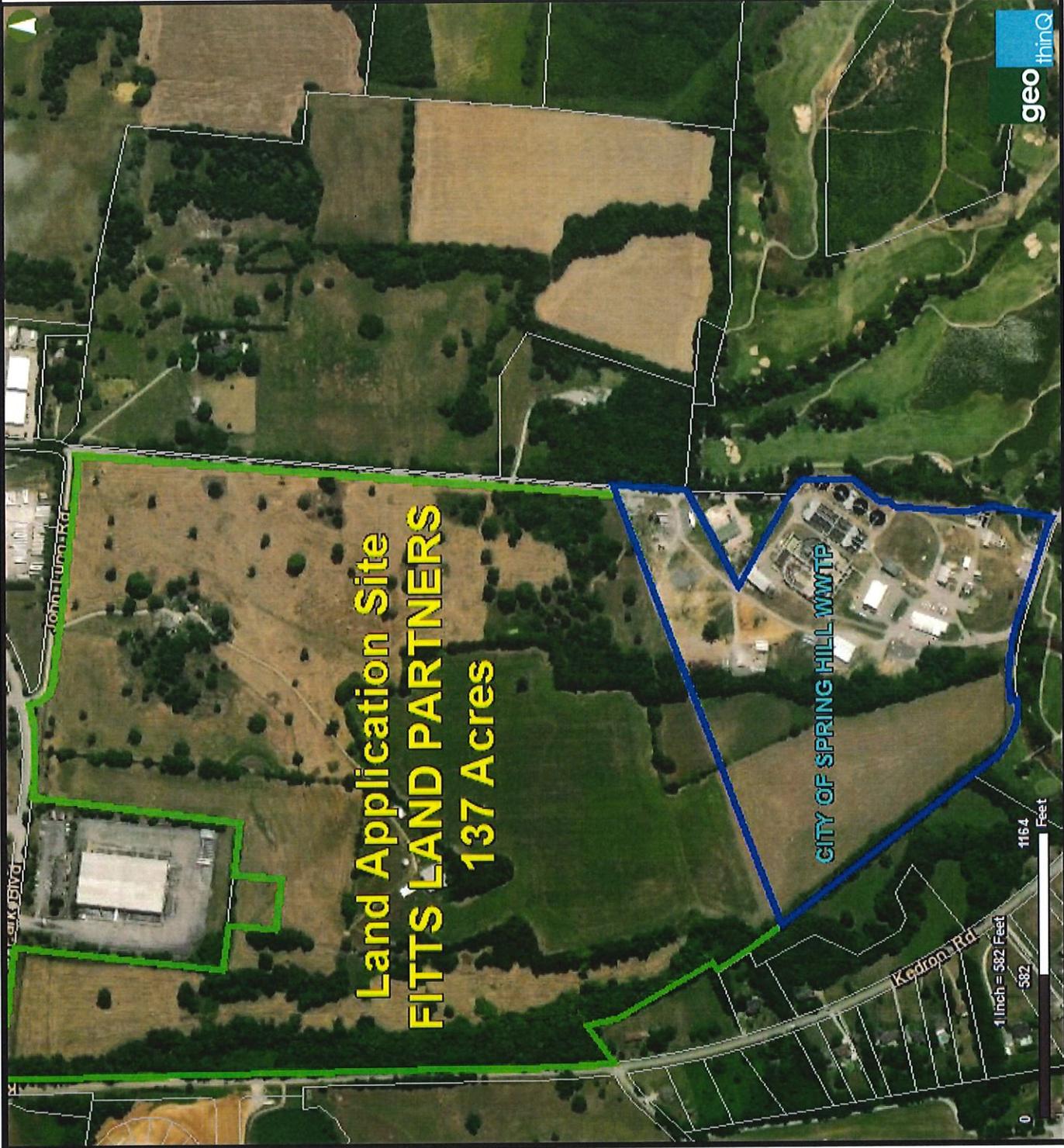
cc: Mr. Chuck Downham, Assistant City Administrator



CITY OF SPRING HILL

LAND APPLICATION SITE
05/21/2020

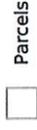
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City of Spring Hill

Land Application Site
05/21/2020



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