



## Legislation Text

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**File #:** 24-5672, **Version:** 1

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**Department:** County Engineer

**Department Head/Elected Official:** Milton Rahman, PhD, P.E., PMP, CFM, ENV SP, County Engineer

**Regular or Supplemental RCA:** Regular RCA

**Type of Request:** Report

**Project ID (if applicable):** 21289MF1YK01

**Vendor/Entity Legal Name (if applicable):** 5engineering, LLC

**MWDBE Contracted Goal (if applicable):** N/A

**MWDBE Current Participation (if applicable):** 60%

**Justification for 0% MWDBE Participation Goal:** N/A - Goal not applicable to request

**Request Summary (Agenda Caption):**

Request for approval of Phase 2 study report prepared by 5engineering, LLC for the Countywide Water Wastewater Study, UPIN 21289MF1YK01.

**Background and Discussion:**

The Countywide Water Wastewater Study, funded by Community Development Block Grant-Disaster Recovery (CDBG-DR) funds, aided Harris County in identifying areas for providing water and/or wastewater services. The objectives of Phase 1 of the Water and Wastewater Study provided sufficient data for recommending projects to the Office of the County Engineer (OCE) for further analysis in Phase 2 and provide a viable Geographic Information System (GIS) database. In 2023, OCE completed Phase 1 of the Water and Wastewater Study assessing the needs in Harris County Housing and Community Development's Target Areas. Through this effort, the consultant team collected data to assess existing conditions and identified a list of areas where water and/or wastewater systems could be provided. These areas were ranked in terms of criticality and feasibility. Phase 2 of the study was completed in 2024 and focused on developing a phasing plan to implement improvements, identifying potential funding sources, performing a 30% concept design, and providing cost estimates.

**Expected Impact:**

The study developed recommendations for improvements that could potentially provide public water and/or wastewater service to over 9,000 utility connections, removing an estimated 30,000 Harris County residents from individual well and septic systems.

**Alternative Options:**

Without the approval of this study, an estimated 30,000 Harris County residents will continue to rely on individual well and septic systems.

**Alignment with Goal(s):**

- Justice and Safety
- Economic Opportunity
- Housing
- Public Health
- Transportation
- Flooding
- Environment
- Governance and Customer Service

**Prior Court Action (if any):**

Date	Agenda Item #	Action Taken
11/30/2021	220	Approval of an award based on successful negotiations with the highest overall evaluation and that the County Judge execute an agreement with 5engineering, LLC in the amount of \$1,705,486 for professional architectural and/or engineering services to conduct a water and wastewater study for Harris County.
6/27/2023	116	Approval of a Phase 1 study report prepared by 5engineering, LLC for the Countywide Water Wastewater Study, UPIN 21289MF1YK01.

**Location:**

Address (if applicable): N/A

Precinct(s): Countywide

Fiscal and Personnel Summary				
Service Name	Current Fiscal Year Cost			Annual Fiscal Cost
	Labor	Non-Labor	Total	Recurring Expe
<b>Funding Sources</b>				
<b>Existing Budget</b>				
Choose an item.	\$	\$	\$	\$
Choose an item.	\$	\$	\$	\$

Choose an item.	\$	\$	\$	\$
Total Current Budget	\$	\$	\$	\$
<b>Additional Budget Request</b> ( <i>Requires Fiscal Review Request Form</i> )				
Choose an item.	\$	\$	\$	\$
Choose an item.	\$	\$	\$	\$
Choose an item.	\$	\$	\$	\$
Total Additional Budget Request	\$	\$	\$	\$
<b>Total Funding Request</b>	\$	\$	\$	\$
<b>Personnel</b> (Fill out section only if requesting new PCNs)				
Current Position Count for Servic	-	-	-	-
Additional Positions Request	-	-	-	-
<b>Total Personnel</b>	-	-	-	-

**Anticipated Court Date:** September 19, 2024

**Anticipated Implementation Date (if different from Court date):** N/A

**Emergency/Disaster Recovery Note:** Disaster Recovery related item

**Contact(s) name, title, department:** Patrick Mandapaka, PhD, AICP, Director of Community Planning and Transportation, OCE

**Attachments** (if applicable): Final Report