



AGENDA ITEM SUMMARY

Agenda Date	July 8, 2025
Requested Action	APPROVE RESOLUTION NO. 2025-R46; A RESOLUTION OF THE CITY OF BOERNE, TEXAS, AUTHORIZING THE CITY MANAGER TO ENTER INTO AND MANAGE A PROFESSIONAL SERVICES AGREEMENT BETWEEN THE CITY OF BOERNE AND HDR ENGINEERING, INC. FOR DESIGN OF A NEW GRANULAR ACTIVATED CARBON (GAC) TREATMENT SYSTEM AT THE WATER TREATMENT PLANT FOR AN AMOUNT NOT TO EXCEED \$350,000.00.
Contact Person	Michael Mann – Utilities Director Andrew Wilkinson – Utilities Engineer
Background Information	<p>The Boerne Water Treatment Plant, originally constructed in the early 1970s, uses a mixed media filtration system designed specifically for raw water sourced from Boerne City Lake. While the treatment process remains effective, evolving regulatory standards now require enhanced treatment steps.</p> <p>A maximum contaminant level for disinfection byproducts (DBPs) was introduced in the early 2000s. These byproducts form when free chlorine—used for disinfection—reacts with microscopic organic matter that remains after standard filtration. Surface water is especially susceptible to this issue due to the organic content from runoff. DBP formation continues as water travels through the distribution system, potentially increasing over time.</p> <p>To address this, staff recommends the addition of a granular activated carbon filtration system before the disinfection step. This will significantly reduce DBP formation and also help with occasional geosmin taste and odor events that have occurred in the past.</p> <p>The current fiscal year budget includes funding for the design of this project. Design and bidding are expected to take approximately one year. Staff has negotiated a professional services agreement with HDR Engineering, Inc. to perform design and construction phase services. The proposed contract amount is \$329,900. A copy of the proposed task order is attached for Council review.</p> <p>The estimated construction cost for the filtration system and associated site improvements is approximately \$1 million. This amount has been</p>

	<p>included in the capital improvement budget request for the upcoming fiscal year.</p> <p>Staff recommends that the City Council approve the professional services agreement and authorize the City Manager to enter into a contract for an amount not to exceed \$350,000 to accommodate any necessary additional services.</p> <p>Additional Note: Pilot testing for the City’s future water treatment plant is nearing completion. That facility’s design will incorporate more advanced treatment technology and will further mitigate DBP formation.</p>
Strategic Alignment	<p>F2 – Investing in and maintaining high-quality infrastructure systems and public assets</p> <p>B1 – Utilizing data to drive smart decision making</p> <p>B2 – Advancing master plan recommendations</p>
Financial Considerations	Funding for the professional services contract is included in the adopted FY2025 budget.
Citizen Input/Board Review	N/A
Legal Review	The City Attorney’s Office has reviewed and approved the contract documents.
Alternative Options	<ol style="list-style-type: none"> 1. Delay design work – This may increase risk of noncompliance with DBP regulatory standards. 2. Reinitiate consultant selection – Restarting the qualifications-based selection process would delay the project and could increase total project costs.
Supporting Documents	<p>Resolution No. 2025-R46</p> <p>Proposed task order from HDR Engineering, Inc.</p>