



Newterra's skid systems allowed the San Antonio Water System to treat over five million gallons of water daily, meet EPA Stage 2 DBP regulations, and streamline installation, reducing costs and boosting efficiency

Case Study: When a Project Requires a Texas-Sized Solution!

Summary

Through a competitive bid process, Newterra was selected by the San Antonio Water System (SAWS) to supply an Activated Carbon Treatment System to proactively remove total organic carbon (TOCs) and trihalomethanes (THMs) from more than five million gallons of water per day. The system will treat source water from Canyon Lake, a nearby potable surface water supply. The system will also reduce the potential for the formation of disinfection byproducts (DBP) in the distribution system and ensure compliance with Environmental Protection Agency (EPA) Stage 2 DBP regulations.

The Client

The San Antonio Water System (SAWS) is the largest drinking water and sewage utility in Bexar County, Texas, USA. Based in the Midtown Brackenridge district of San Antonio, SAWS draws water from the Edwards Aquifer to service its customers in all eight counties of the Greater San Antonio metropolitan area.

The Challenge

What makes this project so unique is though Newterra has been manufacturing the popular **Dual-Vessel CP 20K-10 System** for years, in this case, it was the first time a client required a complete system on a skid. "We specifically engineered each skid to ship on a single flatbed truck. Plus, the skids simplify the setup process and help reduce labor costs," said one Newterra representative. To achieve this, each skid had to be specifically engineered to ship on a single flatbed truck. As a built-in bonus, the skid system configuration simplified the setup process and helped significantly reduce labor costs.

Solution

Newterra supplied three activated carbon dual-vessel skid systems capable of purifying more than five million gallons of water daily. Dual-vessel activated carbon adsorption systems like these are ideal for municipal water purification since they can contain from 20,000 to 80,000 lbs of activated carbon for treatment. By increasing the amount of carbon online, a system needs less frequent media changeouts. In addition, varying vessel diameters and heights allow the users to select the system that best fits their available footprint. Interconnecting 12-valve pipe



Newterra's Activated Carbon Dual-Vessel Systems: Treating over five million gallons per day with 20,000 to 80,000 lbs of activated carbon capacity.

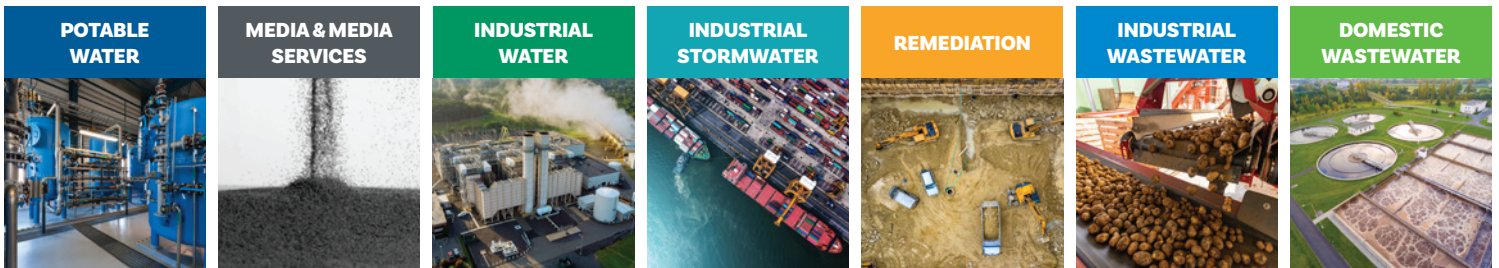
racks allow the dual-vessel systems to run in parallel or lead-lag. Pipe rack systems can include pressure relief valves, pressure gauges to monitor each vessel, and sample valves.

Results/Impact

Newterra also included operational training for SAWS employees to round off the contract. Municipal drinking water providers like SAWS are more and more looking to quickly come into regulatory compliance or solve other potable water problems. Newterra offers municipalities options to purchase or rent reliable adsorption and filtration vessels and other water-related equipment. Newterra also provides aftermarket services and support, including spent activated carbon changeout and disposal.

What's Your Unique Water Question?

Contact us today at **+1 800.420.4056** to solve your most challenging water issue. Our experts are here to solve your water problems by tailoring solutions based on your operational, regulatory and safety goals.



From Source to Solution – Choose Newterra

Your trusted partner for comprehensive environmental solutions

With **technology brands whose histories expand back for more than 150 years**, Newterra has steadily grown from its roots to become a global solutions provider in water and wastewater treatment. Our journey is a testament to our deep understanding of the multifaceted challenges across various markets and applications.

Our “One Newterra” ethos is a commitment to providing a comprehensive array of technical solutions, ensuring we address the full spectrum of our clients’ needs. This dedication extends beyond technology, as we nurture enduring partnerships with our clients, standing by them throughout every phase of their challenges. At the heart of Newterra is our unwavering commitment to sustainability.

Our people, our technologies and our practices contribute meaningfully to a sustainable and brighter future.



Newterra Corporation, Inc. | +1 800.420.4056 | [newterra.com](https://www.newterra.com)

All indicated Newterra trademarks and logos are property of Newterra Corporation, Inc.. Third-party registered trademarks and logos are the property of their respective owners. Copyright © 2025. Newterra Corporation, Inc. 03-25

