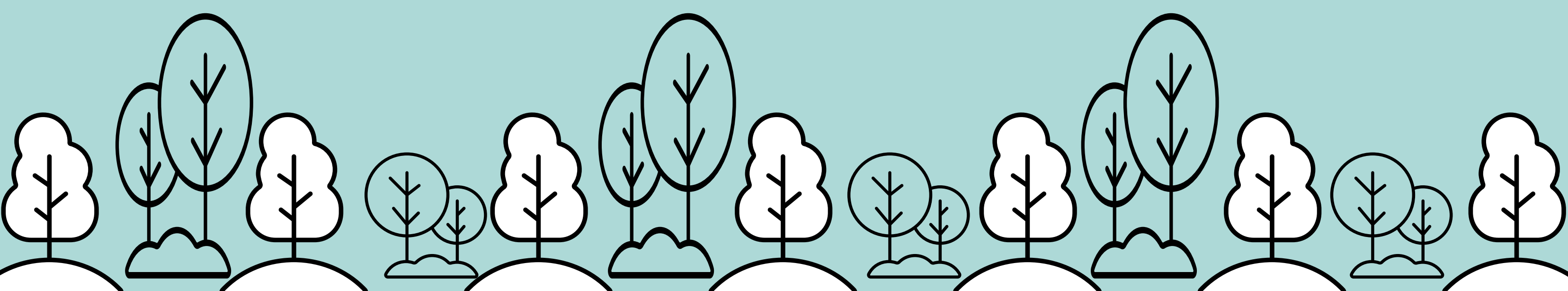




RESILIENT SUCCESS STORIES

...TRUE LIFE STORIES FROM THE KANSAS CITY REGION!

JOHNSON COUNTY WASTEWATER TOMAHAWK CREEK TREATMENT FACILITY





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JOHNSON COUNTY WASTEWATER TOMAHAWK CREEK TREATMENT FACILITY

Johnson County Wastewater (JCW) is finalizing construction of the Tomahawk Creek Wastewater Treatment Facility. One innovative component of this new facility is the sidestream treatment process. This process, the first of its kind to be implemented in Kansas, uses specially cultured anammox bacteria to remove nitrogen from a waste stream that traditionally was directly returned to the main treatment basin for biological treatment.

Once at the treatment facility, wastewater goes through a series of processes that separate the liquid and solid components and either destroy or remove most of the constituents of concern so water can safely be returned to our streams. After the solids are treated, the excess water is removed, creating a waste stream. By diverting to this new sidestream process, most of the nitrogen from the waste stream can be removed more efficiently than traditional methods, saving money by reducing energy use and chemical demands.

Wastewater treatment consumes a significant amount of electricity and chemicals. Finding ways to reduce this use of resources is challenging when regulatory limits become increasingly stringent. At Tomahawk, implementing the innovative sidestream treatment process that provides improved treatment performance while also reducing our consumption of resources and saving money is a huge win.

