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Water Reclamation Center Expands to Meet Continued Growth

[Wentzville, MO — March 27, 2023] The City of Wentzville has completed its \$11.4 million Phase 3 expansion of the Wentzville Water Reclamation Center, marking a major investment in the City's wastewater treatment capabilities, and helping to ensure continued high-quality wastewater treatment for its growing population. Earlier this week, the facility held a ribbon-cutting ceremony to celebrate this important project.

The expansion project, which began in 2020 and concluded in 2023, was divided into two phases — each with its own set of challenges and opportunities. In total, the project has increased the City's permitted discharge design flow from 5.34 MGD to 7.04 MGD.

Phase 1 of the expansion focused on biosolids dewatering upgrades, including the installation of a new biosolids dewatering facility, a screw press, and upgraded sludge pumping capabilities. These upgrades not only improved the efficiency of biosolids management and handling, but also greatly impacted the treatment process, by reducing and better controlling the solids inventory. In addition, an open-air covered storage structure was constructed to allow for safe and secure storage of dewatered biosolids.

Phase 2 of the expansion focused on the installation of a new aeration treatment unit on the west side of the plant, modifications to the main flow diversion structure, and the conversion of a 35-year-old treatment unit into an aerobic digester. These upgrades will increase the Wentzville Water Reclamation Center's treatment capacity and further reduce its environmental footprint.

The Phase 3 expansion of the Wentzville Water Reclamation Center is an important investment in the future of the City and the surrounding community. By improving the efficiency and effectiveness of its wastewater treatment operations, the City is ensuring that it can meet the growing demand for clean water while minimizing its impact on the environment.

To learn more, or for questions, please contact Susan Spiegel, Wentzville Public Works Director, by email at Susan.Spiegel@wentzvillemo.gov or call (636) 639-2030.