

TONTO APACHE TRIBE WWTP, PAYSON, AZ

CASE STUDY

When the Tonto Apache Tribe decided to expand its casino operations to include a 101-room hotel, complete with convention space and food service operations located on their 87-acre reservation in Payson, Arizona, they needed a technology that would provide dependable, high-quality wastewater treatment results. They wanted a complete treatment system that would allow for growth; would fit into a relatively small footprint; that could handle the flow variations from the hotel, casino and convention center; and a plant that was easy to operate so they could manage it themselves. The technology also needed to be effective as with the shortage of water in the Southwest, they made the decision to reuse the effluent within the fire suppression system of the hotel, casino and convention center and for local irrigation.



In 2006 the Tribe decided on the Upflow Sludge Blanket Filtration (USBF™) wastewater treatment technology to treat the sewage from the residences as well as the hotel, casino and convention center.

The plant itself is designed to be simple and straightforward to operate, utilizing a SCADA system which if required, allows ECOfluid to supervise the plant operations remotely from their office in British Columbia. The state-of-the-art facility utilizes USBF™ technology, followed by microfiltration, sand filtration and UV disinfection, to produce Title 22 or Class A reclaimed water suitable for reuse. The facility, designed to treat 300m³/d (80,000gpd) of sewage, is complete with office and lab space and emergency power supply generator.



Notice the close proximity of the WWTP to the casino/hotel, attesting to the non-odorous nature of the USBF process