

Thompson Pump Dewaterers a Part of the Kansas River

Thompson Pump's Kansas City Branch representative was called to provide assistance on a pump upgrade on an existing raw water intake structure project on the Kansas River, in Johnson County, Kansas.

The contractor had trouble dewatering a coffer dam that was installed to allow crews to gain access to the pump tubes and permanent pumps that would feed river water into the Johnson County Water Treatment Plant. Until the coffer dam could be successfully dewatered, the job was at a complete standstill.



Thompson pumps dewatering the coffer dam to allow crews to make repairs to the Johnson County Water Treatment Plant.

The contractor installed sheet piling around the area to block off the section of the river to be pumped, and to dewater the area where work was to take place. Although the sheet piling was installed deep enough to hit bedrock, a large amount of river water was still entering through the sheet piling at the riverbed.

Thompson Pump's Kansas City Branch representative provided four units to help successfully dewater the coffer dam:

- A Thompson 6-inch Compressor-Assisted Open Trash/Sewage Pump with *ENVIROPRIME*[®] Priming System, capable of a maximum of 1,750-gallons per minute,
- A Thompson 6-inch Compressor-Assisted Solids Handling High Pressure Pump with *ENVIROPRIME*[®] Priming System, capable of a maximum of 2,550-gallons per minute,
- A Thompson 12-inch Compressor-Assisted Solids Handling High Pressure Pump with *ENVIROPRIME*[®] Priming System, capable of a maximum of 7,500-gallons per minute,
- And, a 6-inch electric submersible pump.

Thompson Pump was able to immediately supply all of the pumps along with other accessories, such as Thompson Galvanized Pipe, directly from their branch location. All of the pumps were started first thing in the morning as crews arrived at the Water Treatment Plant in order to remove the river water than collected in the coffer dam overnight. With all four pumps operating, the coffer dam would be successfully dewatered in 30-minutes. Once the dewatering was complete, the repair crews would then enter the coffer dam and begin their repairs. At that time, the Thompson 6-inch Compressor-Assisted Open Trash/Sewage Pump and the Thompson 6-inch Compressor-Assisted Solids Handling High Pressure Pump were turned off, leaving the Thompson 12-inch Compressor-Assisted Solids Handling High Pressure Pump and the 6-inch electric submersible pump operating to maintain dryness in the coffer dam as repairs were made throughout the day.