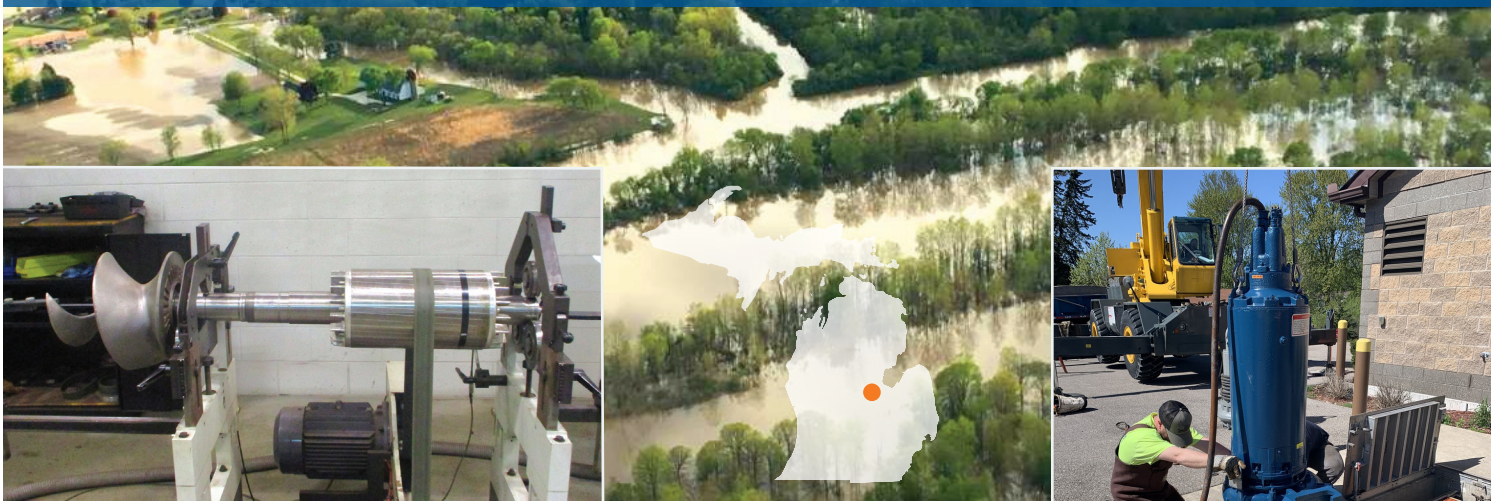


## Fast-Track Pump Repair for Thomas Twp. During Midlands Flood



Thomas Township needed to pull, repair, and reinstall one of their four main 100 HP Weir Specialty Submersible Pumps.

**Pump Specs**  
*Flow Rate:* Each pump (of 4) is rated for 2,200 gpm at 89' TDH; two pumps running achieves over 4,000 gpm  
*Discharge:* 20" Ductile Iron Force Main  
*Weight:* 1,300 lbs. per pump  
*Depth:* Over 42 ft.  
*Horsepower:* 100 HP



**BEFORE** **AFTER**

*Kennedy's Field Service and Repair teams were contacted by Thomas Township to remove, diagnose, repair, and reinstall their 100HP submersible pump, all during the 2020 flood.*

**PROBLEM:**

Thomas Township's DPW Superintendent requested that their failing main pump in Pump Station #1 be repaired. The challenge was the station depth (over 42 ft.) and pump weight (over 1,300 lbs). Each station's main pump is rated for 2,200 gallons per minute at a total dynamic head of 89 feet. Kennedy's Field Service team immediately mobilized to pull the pump for a complete overhaul at our shop. But while the pump was in for repair, the Midland and Saginaw County flood of 2020 occurred, which elevated the job to a fast-track status.

**SOLUTION:**

The first order of business for Kennedy's Repair team at our 100,000 square foot facility was to thoroughly dismantle the pump, glass-bead blast all components, perform a precision inspection, non-destructive tests, shaft run-out checks, and concentricity checks on all major components. We then performed numerous machining processes, including impeller balancing, critical component replacements, and a detailed cleaning. As a final measure, we completed an "as-built" inspection, painted, and reassembled the pump with all new hardware.

*Kennedy's Repair and Field Service teams came to the rescue! The pump repair was expedited, tested, and RUSHED back to Thomas Township for installation and startup all while the Tittabawassee River was raging at record high levels.*