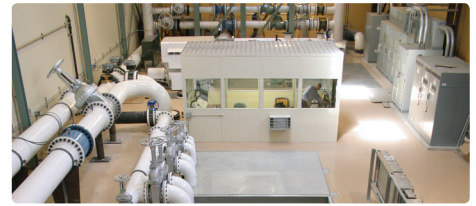


PUMP Test REPORT

PROVEN RESULTS FOR ENGINEERED UPGRADES

MAY 2015

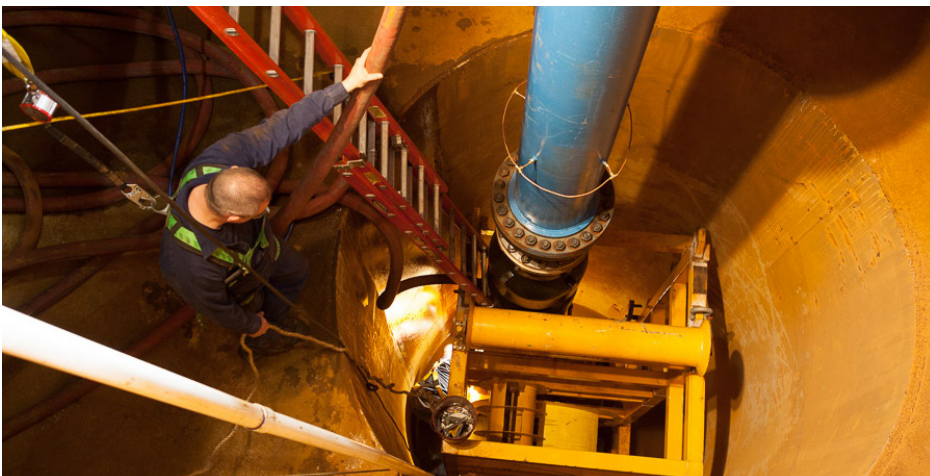


Performance Testing for Sea Water Lift Pump with 1285 kW Submersible Motor

Hydro's Test Lab worked with a pump manufacturer to support the testing of a two-stage seawater lift pump. The setup consisted of a Weir type BWM 690 vertical two-stage centrifugal pump, a 1285 kW submersible motor, power supply cables and piping that connected to the rest of the test loop. The challenge was not in testing the pump, but installing and supporting the 12,000 lb (wet) submersible motor required for the test. Through working with the customer, a motor support was implemented.

Once the motor and power supply cables were supported, all of the motor components were lowered into a completely drained test pit at a depth of 35 ft. At this depth, many additional safety precautions and checklists were implemented to ensure that all tasks were carried out with minimal risk. Once the motor was installed and secured, the pump was lowered and coupled to the motor shaft, then the piping connected. The final step was flooding the dry test pit and preparing for the test.

A Certified Performance Test (CPT) was completed and witnessed by the customer at Hydro's test facility, confirming that the pump was doing what it was designed to do. Despite complex engineering challenges, Hydro is always committed to finding the data needed to understand a pumping system's performance.



Testing doesn't interrupt our business. It is our business.

INDUSTRY	Oil & Gas
MANUFACTURER	Weir
TYPE	Submersible Pump (SUB)
MODEL	SBWM
SIZE	690
STAGES	2
IMP. DIA. (IN.)	-



This test was performed within days of receiving the pump from the customer, allowing a swift turnaround time needed to ensure minimal downtime for the customer.

PTR1505