

CTW Corporation

Wells - Pumps - Controls

July 31, 2026

MAUSTON WATER DEPT.
ATTN: MR. ROB NELSON DPW
303 MANSION ST.
MAUSTON, WI. 53948

Re: Well #3 pump service, variable frequency drive, water meter replacement

Dear Mr. Nelson,

CTW Corporation is pleased to present the following proposal to service the pump in Well #3. Our firm specializes in this service and we will strive to restore your equipment to its best efficiency possible.

According to information available, the 100 horsepower, 1800 rpm well pump is suspended on 130 feet of 10 inch column pipe. The well pump is believed to be a 12 inch diameter, 5 stage assembly. Our basic service will consist of the following repairs:

- Remove well pump and evaluate components
- Inspect the pump components with you prior to removing to our shop for repairs.
- Replace lineshaft bearings
- Remove stuffing box and install a new bushing and repack.
- Change motor oil
- Install new airline
- Reinstall rebuilt assembly, disinfect, flush and collect a sample for bacteriological analysis

The above services are expected to not exceed a cost of \$ 16,988.00.

In addition, we offer a full range of additional services that may be recommended to provide the best service needed. Prior to performing any of these additional services we will discuss and obtain your approval.

- Televis well and provide an electronic copy \$1500
- Brush and Bail well \$2200/day
- Electric motor service estimate \$4500.00 est
- Minor well treatment depending on well condition \$5,000.00 est

Generally, this process may take up to three weeks to complete and will vary depending on the conditions found and additional services. We will keep your staff well informed of our findings and will not proceed with additional services or materials without your approval.

In addition, replacing the present motor starter with a variable frequency drive was requested. The current starter is a low end solid state starter without a bypass contactor. The power wires feeding it are undersized for the motor load. We propose to install a conservatively sized, heavy duty Mitsubishi variable frequency drive with DC choke input and output reactor to control electrical surges and smooth the output power. We will obtain the required DNR approval for this upgrade included in the cost. The existing starter cabinet will be removed and will mount the proposed vfd in its place. The cost of this

replacement as described will be \$19,480.00. I need to look further at the incoming wire sizes. Replacing them with larger conduit will cost a few hundred dollars I estimate.

Finally, the water meter replacement. A replacement Badger Mag Meter, basic model with flanged spacer, flange kits, and 120 volt power supply will cost \$10,110.00 and approximately \$2975.00 in labor and additional materials. You may want to consider replacement of the gate valve and check valve if their quality is questionable.

For information purpose , a replacement US Electric brand, inverter duty, premium efficiency motor will cost approximately \$13,000, plus installation.

In today's world, the material prices are currently stable but can suddenly change. Availability of materials is good though. We appreciate the opportunity to present this proposal to your community and we look forward to providing you with many years of dependable service from your well and pump.

Sincerely



Thomas Goethel P.E., CTW Corporation

Cc: Hunter Cummins, Troy Simonar, CTW Corporation