

# **Town of Middlebury Vermont**

**77 Main Street, Middlebury VT 05753**

## **MEMORANDUM**

**To: Kathleen Ramsay, Town Manager  
From: Bob Wells, Wastewater Superintendent  
Re: Rebuild of Pump at the Main Pumping Station**

9/13/2018

Kathleen,

The Main Pumping Station has (3) 150 HP Ingersoll-Dresser centrifugal pumps. One pump was rebuilt in 2016, one rebuilt in 2017 and one has yet to be rebuilt.

Upon startup in 2000 one of the pumps had a seal leak which required this pump to be disassembled and repaired. Pizzagalli Construction contacted Ingersoll-Dresser who then had Aqua-Solutions make the repair of this pump.

The pumps had been abused due to the grit and irregular flow patterns into the wet well – which was resolved after we added the grit removal and expended the wet well which now absorbs the hydraulic shock load onto the pumps.

I have been having one pump rebuilt per year to ensure their reliability and I now have one pump left to rebuild.

Aqua-Solutions is certified to rebuild Ingersoll-Dresser pumps and we have used them for the last 2 pump rebuilds. I would request that we again have Aqua-Solutions be authorized thru the Purchasing Policy as a Sole Source Purchase to rebuild this last pump.

The estimated cost for this rebuild is \$37,600 which has been budgeted for.

If you need more information please do not hesitate to contact me.

Thanks,

Bob



www.aquasolutionsinc.net

4/7/18

*\* Jim on phone said  
The estimate from host  
Rebuild will be the same  
for this one -*

November 16, 2017

To: Bob Wells – Middlebury, VT  
From: Jim DeLuca – Aqua Solutions, Inc.

Re: Flowserve (IDP) Pump; M/N 6MFC-18  
S/O S-000887; Pump Repair Quote

Steve,

**1. Onsite Work:**

- Detach motor electrical connections and place motor on floor.
- Disassemble rotating assembly from pump volute.
- Pull rotating assembly and ready for shipping to repair shop
- Receive rotating assembly (after repair) and rig for re-installation
- Install repaired rotating assembly and button-up.
- Install motor and check alignment.
- Perform mechanical run test.

**2. Repair Shop Work:**

- Pick up rotating assembly only, deliver to shop
- Disassemble, perform incoming inspection
- Document as found condition including photos
- Report findings and any added repair or material required
- Clean, sandblast as needed
- Measure shaft and housing fits, impeller fits, wear rings, seal fits, etc.
- Dial indicate, polish all surfaces
- Dynamic balance impeller
- Assemble using all parts required and furnished per below list.
- Deliver back to site

**3. Parts Included:**

- Casing Wear Ring with Screws
- Impeller with Wear Ring and Screws \*
- Shaft Sleeve with Key
- Line Bearing
- Thrust Bearing
- Casing Handhole Cover Gasket
- Casing to Stuffing Box Gasket Material
- Thrust End Lip Seals

- Line End Lip Seals
- Line Bearing Cover Gasket
- Thrust Bearing Cover Gasket
- Casing to Suction Elbow Gasket
- Double Mechanical seal
- Falk Coupling \*
- Inboard & Outboard Grease Retainers \*
- Shim Sets \*
- Suction Elbow Handhole Cover Gasket \*

#### 4. General

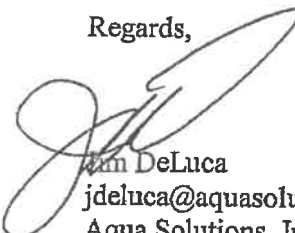
- Upon completion of inspection if further repair or parts are needed it will be quoted separately.
- Delivery is 8 – 10 weeks after receipt of a PO or release to manufacture.
- Confirmation of pump serial number is required.
- **Total price - \$37,600.00**

#### 5. ~~Replacement Pump~~

- ~~Duplicate 6MEC18A to duplicate order # S000887, Less Motor, Freight Allowed, Lead Time = 18 Weeks ARO.~~
- ~~Labor to pull existing pump and install new/duplicate pump~~
- ~~Total price - \$56,500.00~~

Please review the above and let me know if you have any questions or comments. Our payment terms are 100% net 30 days and this quote will remain firm for 60 days.

Regards,

  
 Jim DeLuca  
 jdeluca@aquasolutionsinc.net  
 Aqua Solutions, Inc.  
 154 West Grove St.; Unit D  
 Middleboro, MA 02346

Ph# 508-947-5777

\*Parts were added to original quote of 7/13/16 to pump repaired last year.