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**WATER POLLUTION CONTROL**

**MEMORANDUM**

To: Gregg Mandsager, City Administrator

CC: Nancy Lueck, Finance Director  
Fran Donelson, Secretary

From: Jon Koch, WPCP Director

Date: September 15, 2014

Re: Mad Creek Lifstation Pump #4 Powerhead

**INTRODUCTION:** The #4 pump at the Mad Creek Liftstation must have the powerhead assembly replaced due to a complete shear of the shaft from the impeller. The Fairbanks pump is the only available replacement from the Midwest vendor of Zimmer and Francescon for \$15,935.00. This is an unbudgeted item and will come out of the plant reserve fund.

**BACKGROUND:** This is the pump that takes excess stormwater from the station and pumps to the Papoose Liftstation to avoid flooding. The pump was installed in 1993 after the flooding ruined the existing pumps. The replacement of the shaft and individual parts would come to \$16,312.00 so buying the complete powerhead assembly is a saving in parts and labor. A completely new pump is \$18,840.00 but is not necessary at this time.

**RECOMMENDATION/RATIONALE:** Staff recommends using the plant reserve fund to purchase the Fairbanks 12" non-clog rotating powerhead assembly from Zimmer and Francescon for \$15,935.00.

**BACKUP INFORMATION:**

1. Quote from Z&F

# ZIMMER & FRANCESCON, INC.

## QUOTATION

TO: Muscatine WWTP  
1202 Musser Street  
Muscatine, IA 52761

6200 65th Avenue  
Moline, IL 61265  
1-800-621-1118  
309-797-1117 tel  
877-244-2508 fax

QUOTATION NO: 140805AL  
DATE: 8/15/14

**SUBJECT:** Mad Creek Lift Station Pump Replacement

Gentlemen:

We are proposing to furnish the following equipment at the prices indicated and in accordance with the terms set forth herein.

### Rotating Assembly Option

One 1 Fairbanks 12" B5711 T40 non clog Rotating Assembly for sn K4B1-073860. Assembly includes Bearing Frame, Backhead, and Impeller with wear ring. Case wear ring and gasket are shipped loose for field installation \$15,935.00  
Just Power Head

### Bare Shaft Pump Assembly Option

One 1 Fairbanks 12" B5711 T40 non clog pump duplicate to sn K4B1-073860. Fitted with 13.4" impeller for 5,000 gpm @ 44' tdh. \$18,840.00  
Complete New Pump

### NOTES

- 1 Installation of equipment is NOT included
- 2 Rotating Assembly delivery is estimated to be 8-10 weeks
- 3 Bare Shaft Pump Option is estimated at 14-16 weeks
- 4 Supplied Assembly covered by standard 1 year warranty
- 5 Freight is included in proposed price.