

Memo

To: Grayson Bottom, City Manager
From: Bob Gauger
Date: 03/13/2008
Re: Request permission to purchase impeller for WWTP

The impeller on the filter pump at the Wastewater Treatment Plant is in need of replacement. The impeller has been in service on this pump since 1993. Over the years, the normal wear from use and its location in such acidic water has caused the pump to not carry the volume that is necessary.

The pump was made in Japan. The staff at the treatment plant have contacted the manufacturer and an impeller is available for \$11,722. However; they indicated that it will have a six month delivery date at minimum. This does not include the possible waiting time in customs that we have experienced on some other parts orders.

Trying to find other alternatives, staff also contacted a company in Port Arthur, Texas by the name of Standard Alloys. A representative came to the plant and made a sketch of the impeller and provided a quote in the amount of \$12,867 to make a custom fabrication of the impeller. This price includes a one-time charge of \$3724 to make the casting for the impeller. They keep the casting on file indefinitely and in the event that we need to have another impeller produced, the casting fee would be waived. The delivery date is estimated at 4 – 6 weeks.

Considering the fact that parts for this type of pump are scarce due to its limited application and foreign ability, I would recommend that we purchase the impeller from Standard Alloys since they have a much faster delivery time. A replacement in the future would also be much cheaper since we would not have to pay the casting/tooling fee.