

**City of Fayetteville Staff Review Form**

**2019-0624**

**Legistar File ID**

**10/15/2019**

City Council Meeting Date - Agenda Item Only  
N/A for Non-Agenda Item

Tim Nyander

9/16/2019

WASTEWATER TREATMENT (730)

**Submitted By**

**Submitted Date**

**Division / Department**

**Action Recommendation:**

Staff recommends the approval of a repair quote from Jack Tyler Engineering, Inc. in the amount of \$22,120.39 plus applicable taxes and freight for a pump and motor rebuild for the Hamestring wastewater lift station, and approval of a budget adjustment.

**Budget Impact:**

5400.730.5800-5414.00	Water and Sewer																														
Account Number	Fund																														
02069.1	Plant Pumps and Equipment - WWTP																														
Project Number	Project Title																														
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><b>Budgeted Item?</b></td> <td style="width: 10%;"><u>Yes</u></td> <td style="width: 30%;">Current Budget</td> <td style="width: 10%; text-align: right;">\$</td> <td style="width: 10%; text-align: right;">1,157,303.00</td> </tr> <tr> <td></td> <td></td> <td>Funds Obligated</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">1,157,298.32</td> </tr> <tr> <td></td> <td></td> <td style="border-bottom: 1px solid black;">Current Balance</td> <td style="text-align: right; border-bottom: 1px solid black;"><b>\$</b></td> <td style="text-align: right; border-bottom: 1px solid black;"><b>4.68</b></td> </tr> <tr> <td><b>Does item have a cost?</b></td> <td><u>Yes</u></td> <td>Item Cost</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">25,374.63</td> </tr> <tr> <td><b>Budget Adjustment Attached?</b></td> <td><u>Yes</u></td> <td>Budget Adjustment</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">25,375.00</td> </tr> <tr> <td></td> <td></td> <td style="border-bottom: 1px solid black;">Remaining Budget</td> <td style="text-align: right; border-bottom: 1px solid black;"><b>\$</b></td> <td style="text-align: right; border-bottom: 1px solid black;"><b>5.05</b></td> </tr> </table>	<b>Budgeted Item?</b>	<u>Yes</u>	Current Budget	\$	1,157,303.00			Funds Obligated	\$	1,157,298.32			Current Balance	<b>\$</b>	<b>4.68</b>	<b>Does item have a cost?</b>	<u>Yes</u>	Item Cost	\$	25,374.63	<b>Budget Adjustment Attached?</b>	<u>Yes</u>	Budget Adjustment	\$	25,375.00			Remaining Budget	<b>\$</b>	<b>5.05</b>	
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V20180321

**Purchase Order Number:** \_\_\_\_\_

**Previous Ordinance or Resolution #** \_\_\_\_\_

**Change Order Number:** \_\_\_\_\_

**Approval Date:** \_\_\_\_\_

**Original Contract Number:** \_\_\_\_\_

**Comments:** Freight is estimated at \$1,000.00 and taxes are estimated at \$2,254.24 for an estimated total of \$25,374.63.



**MEETING OF OCTOBER 15, 2019**

**TO:** Mayor and City Council

**THRU:** Don Marr, Chief of Staff  
Water & Sewer Committee

**FROM:** Tim Nyander, Utilities Director

**DATE:** September 16, 2019

**SUBJECT: Pump and Motor Rebuild for Hamestrung Wastewater Lift Station**

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**RECOMMENDATION:**

Staff recommends the approval of a repair quote from Jack Tyler Engineering, Inc. in the amount of \$22,120.39 plus applicable taxes and freight for a pump and motor rebuild for the Hamestrung wastewater lift station, and approval of a budget adjustment.

**BACKGROUND:**

The Hamestrung sewer lift station on Sunshine Road delivers over 85% of the West Side treatment facility's average 7+ MGD of wastewater influent. The station, first brought online in June 2008, utilizes a series of seven 350 hp Cornell-brand pumps that have been in operation for just over 11 years. Pump No. 2 has been scheduled for maintenance rebuild as a 2019 CIP project following 48,000 hours or nearly 5.5 years of run-time service. Performing maintenance rebuilds on a preventive schedule, for instance approximately every 45,000 operating hours, safeguards against potentially more costly pump failures or unexpected pump unavailability at a location critical to the West Side facility's operation.

**DISCUSSION:**

Recently, Pump No. 2 was taken out of service and shipped to Jack Tyler Engineering, in Little Rock, for disassembly inspection and a rebuild cost proposal. Jack Tyler Engineering submitted a quote to rebuild the pump and motor in the amount of \$22,120.39. Staff recommends completion of the proposed rebuild of the lift station pump and motor in the amount of \$22,120.39 plus applicable taxes and freight. Freight is estimated at \$1,000.00 and taxes are estimated at \$2,254.24 for an estimated total of \$25,374.63.

Because it was necessary to have the repair facility disassemble the units to determine the extent of hidden and unknown damage to equipment already purchased, a bid waiver and/or formal sealed bidding is not necessary according to Ark. Code Ann. §19-11-203(14)(DD).

**BUDGET/STAFF IMPACT:**

Funds will be moved from the Sanitary Sewer Rehabilitation account to the Plant Pumps and Equipment account to cover the costs of the pump and motor rebuild. Funds being moved are budgeted funds for sewer rehabilitation/replacement and maintenance.

**Attachments:**

Quote from Jack Tyler Engineering, Inc.  
Budget Adjustment

**PUMP INSPECTION  
REPORT**



**Jack Tyler Engineering, Incorporated**  
6112 Patterson Road  
Little Rock, AR 72209-2430  
(501) 562-2296 Phone  
(501) 562-4273 Fax

**CUSTOMER:**

CH2M Hill  
Hamestring LS (LS#7)  
2053 N. Sunshine Rd.  
Fayetteville, AR 72704

**REGARDING THE 12NHG28-F20 WITH S/N# 145781**

The customer has reported vibration within the pump housing, need to check all possible reasons: bearings, seals, shaft and impeller balance.

Inboard Bearing Condition:	Rough - replace
Outboard Bearing Condition:	Rough - replace
Mechanical Seal Condition:	Worn - replace
Shaft Condition:	Need to be balanced
Impeller Condition:	Worn - replace
Dynamic Wear Ring Condition:	Worn - replace (new impeller includes installed wear ring)
Stationary Wear Ring Condition:	<b>Not in Shop, need to inspect volute for wear</b>

When our pump technician inspected the pump, he discovered the shaft felt rough when hand-turned. This would mean that when the pump is turning at motor speed, the bearings would have caused the whole pump housing to vibrate.

In order to eliminate any further cause of vibration, we need to have the shaft with the bearings and impeller assembled in order to balance the assembly.  
Impeller lead time -- 11 weeks.

Quote



**Jack Tyler Engineering, Incorporated**  
 6112 Patterson Road  
 Little Rock, AR 72209-2430  
 (501) 562-2296 Phone  
 (501) 562-4273 Fax

Order Number: 0130125  
 Order Date: 9/13/2019  
 Quoted By: CBOHNER  
 Entered by: chrisb  
 Salesperson: S016  
 Customer Number: 0010802  
 Customer Fax: (720) 286-9184

**Sold To:**  
 CH2M Hill  
 Operations Management (OMI)  
 P.O. Box 241329  
 Denver, CO 80224-1329  
**Confirm To:**

**Ship To:**  
 Hamestring LS (LS #7)  
 2053 N Sunshine Rd  
 Fayetteville, AR 72704

Customer P.O.	Ship VIA	Freight	F.O.B.	Terms		
	JTE DELIVERY			Net 15		
Item Number	Unit	Ordered	Shipped	Back Order	Price	Amount
CORNELL PUMP MODEL 12NHG28-F20 WITH S/N# 145781 CUSTOMER HAS PROVIDED ORING, SHAFT SLEEVE, MECH SEAL, BEARINGS, SHIMS, IMPELLER BOLT AND WASHER						
/REPAIR Repair	EACH	1.00	0.00	0.00	18,140.39	18,140.39
D5884-3PB-CI-L IMPELLER - CORNELL	EACH	1.00	0.00	1.00	0.00	0.00
Whse: 001						
*A659AI-197GA VOLUTE GASKET	EACH	1.00	0.00	0.00	0.00	0.00
/BOV MACHINING BOV Machine Work		1.00	0.00	0.00	0.00	0.00
Balance shaft and impeller as complete assembly						
/LABOR Service Labor	HR	12.00	0.00	0.00	0.00	0.00
/SHOP SUPPLIES Misc Shop Supplies		1.00	0.00	0.00	0.00	0.00
/FREIGHT Freight, Shipping & Handling	EA	1.00	0.00	0.00	0.00	0.00

NORMAL LEAD TIME FOR REPAIR 12-14 WEEKS, ARO

*Subb* 9/13/19  
 SEN SALES REP

Net Order: 18,140.39

Sales Tax and Freight Charges are NOT included in quoted price

Freight not to exceed \$500.00

Thank you for the opportunity to quote on your requirements. If you have any questions, please do not hesitate to contact us. NOTE: This quotation expires 30 days from above date unless noted.

Quote



**Jack Tyler Engineering, Incorporated**  
 6112 Patterson Road  
 Little Rock, AR 72209-2430  
 (501) 562-2296 Phone  
 (501) 562-4273 Fax


Order Number: 0130321  
 Order Date: 9/13/2019  
 Quoted By: OGB  
 Entered by: OGB  
 Salesperson: S016  
 Customer Number: 0010802  
 Customer Fax: (720) 286-9184

**Sold To:**  
 CH2M Hill  
 Operations Management (OMI)  
 P.O. Box 241329  
 Denver, CO 80224-1329  
**Confirm To:**  
 JEREMY LACOE

**Ship To:**  
 Hamestring LS (LS #7)  
 2053 N Sunshine Rd  
 Fayetteville, AR 72704

Customer P.O.	Ship VIA	Freight	F.O.B.	Terms
	JTE DELIVERY			Net 15

Item Number	Unit	Ordered	Shipped	Back Order	Price	Amount
/BOV EQT REPAIR BOV Equipment Repair	EACH	1.00	0.00	0.00	3,980.00	3,980.00
6322 BEARING						
6222 BEARING						
CLEAN, BAKE AND INSULATE STATOR						
SHOP LABOR						
INSULATE SPRAY						
ANALYZER REPORT						
MEG AND HI POT TEST						

 9/13/19  
 SCOTT JONES  
 SENIOR SALES REP

Net Order: 3,980.00

Sales Tax NOT included in quoted price

Thank you for the opportunity to quote on your requirements. If you have any questions, please do not hesitate to contact us. NOTE: This quotation expires 30 days from above date unless noted.



# JACK TYLER ENGINEERING, INCORPORATED

6112 PATTERSON AVENUE, LITTLE ROCK, ARKANSAS 72209  
(501) 562-2296 • FAX (501) 562-4273 • ARKANSAS WATS 1-800-562-2296

## STATEMENT OF TERMS AND CONDITIONS

**TERMS/PAYMENTS:** Our terms of payment are net cash 15 days from date of the invoice subject to Seller's prior credit approval. If the Buyer shall fail to make any payments in accordance with the terms and conditions of sale, the Seller, in addition to its other rights and remedies, but not in limitation thereof, may, at its option, without prior notice, cancel this order as to any undelivered products or defer shipments or deliveries hereunder, or under any other agreement between Buyer and Seller, except upon Seller's receipt of cash before shipment or such security as Seller considers satisfactory. In the event Buyer's failure to make timely payments to Seller results in Seller incurring additional costs, including but not limited to collection expenses and attorneys' fees, said costs shall be added to the amount due Seller from Buyer. Buyer shall have no right to any discount or retainage and shall not withhold payment as a set-off on Seller's invoice in any amount. Visa, MasterCard, Discover, and American Express credit card purchases are accepted.

**SHIPMENT:** The date of shipment is subject to our receiving your order with complete information at our office, final approval of any prints or drawings as may be required, credit approval, and the acceptance of your order by the company. Freight Charges are not included in the quoted price.

**EXPIRATION:** Quotation expires 30 days from the date of proposal and, in the interim, is subject to change without notice.

**TAXES:** Unless otherwise stated in the proposal, the prices quoted herein are exclusive of all sales, use and similar taxes and, wherever applicable, such taxes will be added to the invoice as separate items.

**RETURNS/REFUNDS:** Items wished to be returned are subject to prior approval and must be accompanied by a Return Merchandise Authorization (RMA). Items returned without proper approval and/or paperwork will be returned to the customer at their expense. Returns past 30 days of initial receipt will not be accepted.

All returned items are subject to a restocking fee. The customer's credit will be equal to the credit Jack Tyler Engineering, Inc. receives from the vendor, minus original freight and freight back to the vendor. Please note that all items must be returned to JTEI, who will return the item to the vendor. Credit will only be issued once JTEI receives credit from the vendor.

### SPECIAL NOTE:

THIS PROPOSAL IS BASED ON CURRENT PRICES. EQUIPMENT IS SUBJECT TO THE SAME PERCENTAGE INCREASE AS MADE BY OUR SUPPLIERS AND THE INVOICE WILL REFLECT PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS SPECIFICALLY EXCEPTED. **WE WILL NOT ACCEPT RETAINAGE ON ANY OF OUR INVOICES!**

\*\*\*\*\* A \$50.00 minimum order charge will apply \*\*\*\*\*

### WARRANTY:

"The products sold by Jack Tyler Engineering, Inc. hereunder are manufactured by others, and the only warranties that apply to these products are those of the manufacturer of the products which can be passed on by Jack Tyler Engineering, Inc. to its customers. No other warranty of any kind is given in connection with the sale of any of the above products, and JACK TYLER ENGINEERING, INC. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR AS TO ANY OTHER MATTER RESPECTING THESE PRODUCTS. Jack Tyler Engineering, Inc. shall not be liable in connection with the sale of the above products for any incidental or consequential damages of any kind."

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