



March 6, 2014

TO: JD Kehrman, City Manager

FROM: Shawn Middendorf, Local Manager (Alliance Water Resources)

RE: CITY CAPITAL PURCHASE
Wastewater Treatment Plant
#2 Lift Station, #2 Pump Repair

The #2 lift station contains three pumps (45 horse power). Under normal operating conditions only one pump is needed. During high flows, typically following significant rain events, two pumps are needed to keep up with demand. The third pump is a backup to the other two, and is rotated into operation as preventive maintenance. The #2 pump has run 23,513 hours since startup in 2006 and has not had any major repairs. According to manufacturer's recommendations, these pumps should be rebuilt at 20,000 hours of run time. An obvious bearing noise was noticed by operators recently. Through trouble-shooting and discussion with a Flygt pump representative and bearing failure is suspected; also running amps on this pump are slightly lower than normal, indicating wear ring and impeller failure. We recommend this pump to be rebuilt according to the manufacturer's specifications to prevent complete failure and unexpected repairs, such as what happened in November 2013 with pump #1 at this lift station.

Quotations as follows:

JCI	\$14,747.00
Evan Enterprises	\$16,610.00
FTC Equipment	\$18,931.76

At this time, I am requesting approval to allow the low bidder, JCI to rebuild the #2 Pump for the amount of \$14,747. This is a budgeted item to be expensed from City funds, line item 500-5-4225-234.

If you have any questions, please contact me.

Cc: Gary Johnson, file



1161 SE Hamblen Rd.
 Lee's Summit, MO 64081
 United States
 Tel: 816-525-3320
 Fax: 816-525-5881
<http://www.jciind.com>

Quote #: 0538839297DTL

Item	Description	Qty.	Unit Price	Subtotal
1.00	Flygt 3202.090 Budget Repair	1	\$12,369.00	\$12,369.00

The following work will be completed:

1. Clean, disassemble and inspect
2. Replace the following purchased parts:
 - Repair Kit (Bearings, seals, etc.)
 - Rotor
 - Stator
 - 50 Cable
 - Seal sleeves
3. Other Work:
 - Balance rotor / impeller assembly
4. Assemble, Pressure Test, Test Run and Paint

Note:

Add \$2,378 if impeller needs replacement

Additional work required will be quoted prior to repair

Total **\$12,369.00**

Terms & Conditions

Proposed Shipping Date 4 Weeks After Receiving Order

Payment Terms Net 30

Shipping Method Best Way

Shipping Terms Prepaid and Added to Invoice

F.O.B. Warehouse

This Quotation is valid for 30 days.

EVANS ENTERPRISES

4647 WEST FARM ROAD 130, SPRINGFIELD, MO 65802

(417) 886-8886 Fax: (417) 447-0695

www.goevans.com e-mail: cbwrog@goevans.com

Confirmation of Quotation

1/20/2014

Mark Mendenall
City of Nevada
110 S. Ash Street
Nevada, MO 64772

Phone Number: (417) 448-2761

Fax Number:

Authorized By: _____

Authorized Date: _____

Re: Purchase Order No: n/a
Quote No: 3807
Quoted By: Brian Whitman

Job No: n/a

Dear Mr. Mendenall:

We are pleased to quote the following items:

Pump Size/Type/M 3202.090-0221	HP/Phase/Voltage: 45hp/ 3ph / 230/460 vac
RPM: 1170	GPM:
Head:	Impeller Diameter: 641
Manufacturer: Flygt	Serial Number: 0610058
Additional Description:	

Qty	Work Code	Description	Unit Price	Extended Price
1	1110	Recondition	2,880.00	2,880.00
1	1000	Rewind AC stator	1,615.00	1,615.00
1	5045	Furnish & install factory repair kit	8,065.00	8,065.00
1	9999	Impeller - furnish & install	3,510.00	3,510.00
1	4000	Dynamically balance rotor & impeller	540.00	540.00
	5060	Machine work extra		

Subtotal: \$16,610.00

Tax: \$0.00

Total Order: **\$16,610.00**

Brian Whitman

FTC Equipment, LLC

5238 Winner Road
 Kansas City, MO 64127

Phone: 816-833-7200
 Fax: 816-833-1074

Quote

Date	Estimate #
2/5/2014	6307

Name/Address
Alliance Water Resources Attn: Shawn Middendorf C/O City of Nevada City Hall 110 South Ash Nevada, MO 64772

Ship To
City of Nevada Waste Water Treatment Plant 16517 S. 1338 Road Nevada, MO 64772

Terms	Rep	FOB	FTC Job #
Net 30	LM	Factory	

Qty	U/M	Item	Description	Rate	TOTAL
1	EA	Pump Repair	Budgetary Repair Pricing for "Worst Case" repair of Flygt 3202.090-0610058, 45HP, 460V To Include: Teardown and Inspection - 8 Hours @ \$80/Hour Clean Up - 5 Hours @ \$80/Hour Assembly - 8 Hours @ \$80/Hour Materials, Lubes, Solvents & Supplies Qty (1) Repair Kit, Which includes one of each of the following: Upper Bearing, Lower Bearing, Upper Shaft Seal, Lower Shaft Seal, O-Ring Kit Qty (1) Impeller - 007625911 Qty (1) Stator-006477601 Qty (1) Cable Assembly-00942109 Machine Work **Note: This quote is for budgetary pricing only. After teardown and inspection, customer will be notified if additional work is needed.** Repair kit and impeller have a 10-12 week lead time. ***The budgetary price for an ABS replacement pump for this would be \$17,630.20, for an XFP200J-CH2 47HP 8" Discharge. The operating conditions and installation specifics would need to be verified. ~12 week lead time.***	18,931.76	18,931.76

We appreciate the opportunity to be of service to you!

Subtotal	\$18,931.76
Sales Tax (8.35%)	\$0.00
TOTAL	\$18,931.76