

CITY of NOVI CITY COUNCIL

Agenda Item B September 9, 2019

SUBJECT: Approval to purchase two replacement sewage pumps at the Hilton Pump Station, in the amount of \$40,275.

SUBMITTING DEPARTMENT: Department of Public Works, Water and Sewer Division

EXPENDITURE REQUIRED	\$ 40,275
AMOUNT BUDGETED	\$ 89,000
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	592-592.00-937.000

BACKGROUND INFORMATION: Kennedy Industries, the City's pump maintenance contractor and pump supplier, completed an inspection at the Hilton Pump Station on one of the sewage pumps not performing properly. The attached report indicates the pump was damaged and shows signs of significant wear. Kennedy Industries provided quotes for repair (\$18,525) and replacement (\$19,200) of this pump. Due to the small difference in cost, staff recommends purchasing a new pump.

Given these pumps are 12 years old and at the end of the typical life for sewage pumps, the second pump in this station will also likely need to be replaced. Once the first pump is replaced, the second pump will be inspected to verify its condition, and replaced if warranted.

The price quoted by Kennedy includes two pumps at \$19,200 each, plus \$1,875 for testing and verification they are operating properly.

RECOMMENDED ACTION: Approval to purchase two replacement sewage pumps at the Hilton Pump Station, in the amount of \$40,275.

Hilton Pump Station

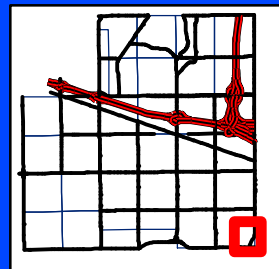
Location Map



Map Author: Croy
 Date: 8/27/19
 Project: Hilton Pump Station
 Version #: v1.0

MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi.
 Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.



City of Novi

Engineering Division
 Department of Public Services
 26300 Lee BeGole Drive
 Novi, MI 48375
cityofnovi.org



1 inch = 471 feet





INNOVATE
SOLVE
MONITOR
REPAIR



QUOTATION		
DATE	NUMBER	PAGE
8/19/2019	0026725	1 of 1

B NOV200
I CITY OF NOVI
L ATTN: FINANCE DEPT.
T 45175 WEST TEN MILE
O NOVI, MI 48375-3029

Accepted By: _____
Company: _____
Date: _____
PO#: _____

ATTENTION:
SCOTT ROSELLE 248-343-1303 sroselle@cityofnovi.org

WE ARE PLEASED TO PROPOSE THE FOLLOWING FOR YOUR CONSIDERATION:

CUSTOMER REF/PO#	JOB TITLE	SLP	SHIPPING TYPE
	HILTON STATION, FLYGT NP3153.095	KES/HLL	FREIGHT ALLOWED
QTY	DESCRIPTION	UNIT PRICE	EXTENDED

2.00	FLYGT,PUMP,NON-CLOG, NP462-4 20/208/3, 50' FM FLS FV EXPLOSION PROOF, SUBMERSIBLE SEWAGE, MODEL NP3153.095-462 WITH HIGH CHROME IMPELLER AND INSERT RING. 20 HP, 3 PHASE, 208 VOLT WITH 4" DISCHARGE AND 50 FT. MOTOR AND ENSOR CABLE. PUMP EQUIPPED WITH SEAL FAIL/HIGH TEMP CABLE.	\$19,200.00	\$38,400.00
------	---	-------------	-------------

1.00	FIELD SERVICE FIELD SERVICE LABOR REQUIRED: ***** KENNEDY INDUSTRIES WILL PROVIDE (1) FIELD SERVICE TECHNICIAN(S) ONSITE TO PERFORM THE FOLLOWING IN (2) ONSITE VISITS:	\$1,875.00	\$1,875.00
------	---	------------	------------

FIRST SERVICE CALL: INSTALL (1) REPLACEMENT PUMP #1 TEST RUN AND VERIFY PROPER
OPERATION. REMOVE PUMP #2 AND BRING BACK TO OUR WIXOM REPAIR FACILITY
SECOND SERVICE CALL: INSTALL (1) REPLACEMENT OR REPAIRED PUMP #2, TEST RUN AND
VERIFY PROPER OPERATION

DELIVERY: 8-10 WEEKS ARO

WE DO NOT INCLUDE: INSTALLATION, SITE WORK, CONCRETE, ANCHOR BOLTS, PIPING,
VALVES, COVER, STARTERS, CONTROLS, CONDUIT, WIRING, JUNCTION BOXES OR
START-UP UNLESS LISTED ABOVE.

WE APPRECIATE THIS OPPORTUNITY TO QUOTE AND LOOK FORWARD TO BEING OF
FUTURE SERVICE.

SINCERELY,
KEITH SIKAITIS / HEATHER LAKE
KENNEDY INDUSTRIES INC

This quote is subject to and incorporates by reference Kennedy Industries, Inc.'s ("Kennedy") Terms & Conditions (Rev'd 4/2019) and Customer
Warranty available at www.kennedyind.com which will be provided by email upon written request. Kennedy reserves the right to change the
Terms & Conditions and Customer Warranty for future orders. By accepting this quote and/or issuing a purchase order relative to this quote,
buyer expressly agrees to the provisions set forth in the Terms & Conditions and Customer Warranty posted on Kennedy's website.

CREDIT CARD PAYMENTS ARE SUBJECT TO AN ADDITIONAL 3% CHARGE
NO TAXES OF ANY KIND ARE INCLUDED IN THIS PROPOSAL

TOTAL: \$40,275.00

P.O. Box 930079 Wixom, MI 48393 - 4925 Holtz Drive Wixom, MI 48393 - Phone: 248-684-1200 - Fax: 248-684-6011

www.KennedyInd.com



August 14, 2019

Mr. Scott Roselle
City of Novi
Novi, MI 48375

**RE: Flygt 3153.091 Hilton Station Sewage Pump
Serial Number: 0660153
Customer Reference Order #:
Kennedy Industries #: 100254**

Mr. Roselle:

Attached are photos with descriptions of the parts in need of repair or replacement. If you have any questions, please do not hesitate to contact us.

Sincerely,

Mike Horn

Repair Center Manager
KENNEDY INDUSTRIES, INC.



PUMP



- Pump at disassembly.
- Pump rotates roughly by hand.
- Pump failed initial electrical testing.

PUMP



- Rags wrapped around impeller back hub caused a mechanical seal failure and allowed product and oil to enter the cooling jacket.
- Mechanical seals, bearings and O-rings will be replaced with new.

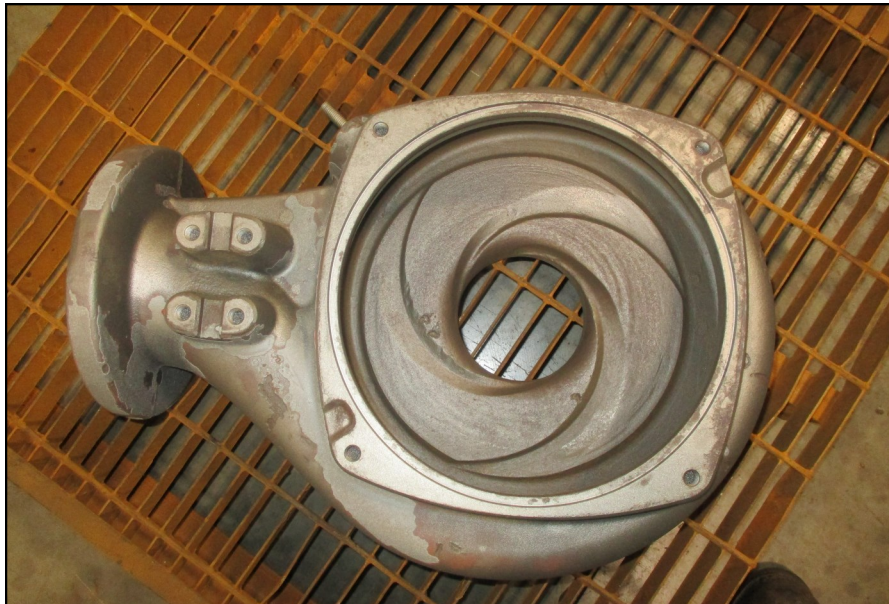


IMPELLER



- Impeller is worn but usable.
- Optional hi chrome impeller upgrade is recommended.

INSERT RING



- Insert ring is worn but usable.
- Optional hi chrome insert ring upgrade is recommended.

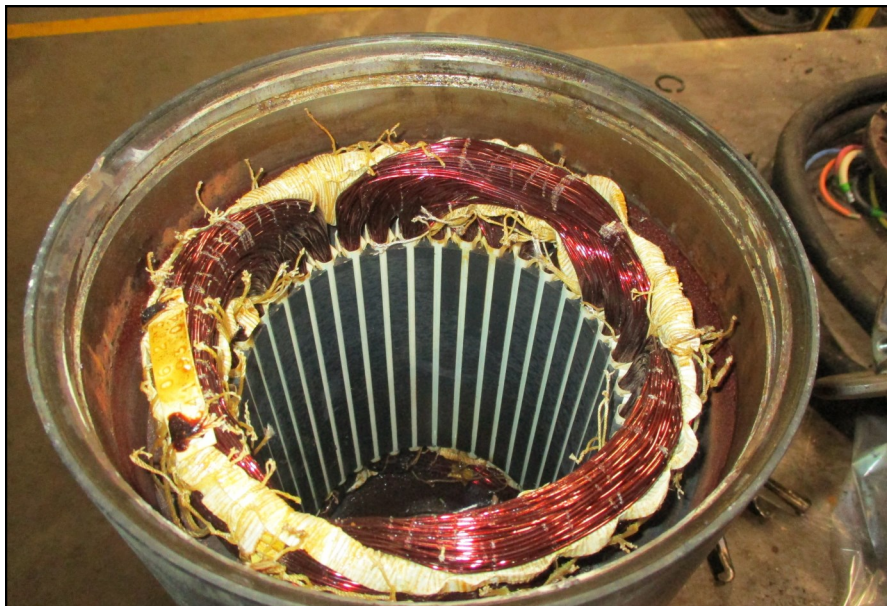


ROTOR



- Rotor Total Indicator Runout is .005 and within specification.
- Rotor is in good condition and will be reused.

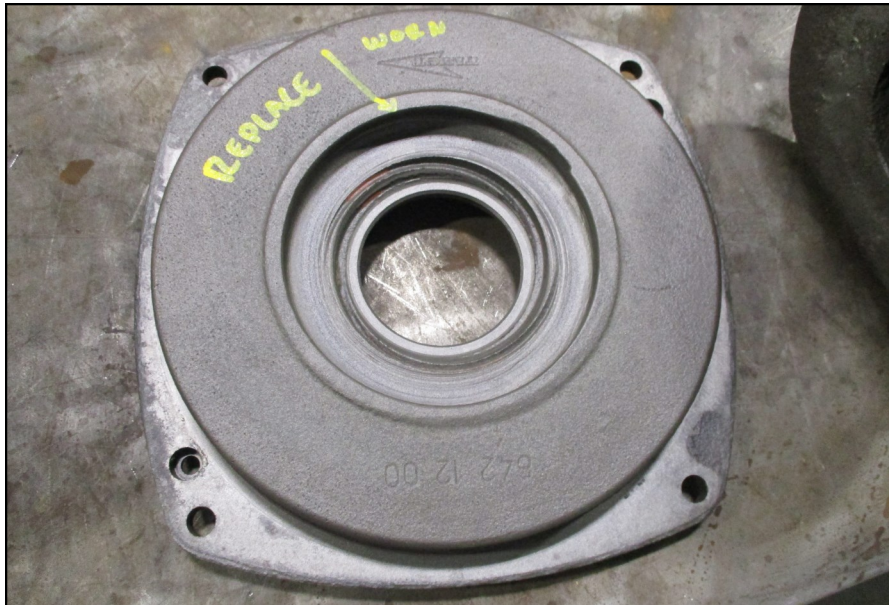
STATOR



- Stator windings got hot from overloading.
- Winding wrap melted due to high temperature.
- Stator will be replaced with new due to factory mutual explosion proof requirements.



SEAL HOUSING



- Seal housing is thin from rag rubbing on face and Outer Diameter.
- Seal housing will be replaced with new.

VOLUTE



- Volute discharge flange and mixed flush valve mounting faces are pitted and eroded.
- Polymer steel will be applied to discharge flange and machined flat to restore the sealing surface.
- Mixed flush valve mounting face will be machined to restore the sealing surface.



MOTOR CABLE



- Motor cable has large gash.
- Motor cable is unusable and will be replaced with new.