



## Board of Aldermen Request for Action

**MEETING DATE:** 7/18/2023

**DEPARTMENT:** Public Works

**AGENDA ITEM:** Resolution 1240, authorizing the emergency repair of the aerator at the wastewater treatment plant.

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### **REQUESTED BOARD ACTION:**

A motion to approve Resolution 1240, authorizing emergency repair of the aerator in digester #2 at the wastewater treatment plant from Mid-America Pump in the amount of \$39,569.05.

### **SUMMARY:**

At the June 6 Board of Alderman meeting, staff reported that the aerator in Digester #2 was not working properly. Staff noticed the breakers providing power were tripping causing the aerator not to function. Staff contacted Mid – America Pump to pull the motor and troubleshoot the cause. It was determined that the stator and windings of the motor were blown causing a power failure.

The City recently completed the installation of a new floating aerator in Digester #1. We explored the option of replacing the entire motor (versus repairing) with a similar motor that drives the new aerator. We could have also then purchased a replacement motor to have as back up. The unit is too old (originally installed in 2007) and has different horsepower and a replacement motor for this unit is no longer available. Repair / rebuilding the existing unit, at this time, is the only option. The City will need to plan to replace this aerator in the next several years.



Lead time for some of the parts and windings was 30 weeks out. We reported at the Board meeting on June 6 that we would need to proceed as soon as we had a proposal

from Mid-America. With this unit down, ammonia levels are higher than normal at the plant. Staff is having to haul more sludge and land apply more frequently trying to keep ammonia levels down.

**PREVIOUS ACTION:**

Reported June 6, 2023

**POLICY ISSUE:**

Facility / infrastructure maintenance

**FINANCIAL CONSIDERATIONS:**

The 2023 CWWS maintenance budget has sufficient funds for this expense.

**ATTACHMENTS:**

- |   |                                   |
|---|-----------------------------------|
| <input type="checkbox"/> Ordinance                  | <input type="checkbox"/> Contract |
| <input checked="" type="checkbox"/> Resolution      | <input type="checkbox"/> Plans    |
| <input type="checkbox"/> Staff Report               | <input type="checkbox"/> Minutes  |
| <input checked="" type="checkbox"/> Other: Proposal |                                   |

## **RESOLUTION 1240**

### **A RESOLUTION AUTHORIZING EMERGENCY REPAIR OF THE AERATOR IN DIGESTOR #2 AT THE WASTEWATER TREATMENT PLANT**

**WHEREAS**, the City of Smithville operates a wastewater treatment plant to treat the City's sanitary sewage; and

**WHEREAS**, the stator in the motor that runs the aerator in Digester #2 has failed causing power issues at the wastewater treatment plant ; and

**WHEREAS**, repair of the motor and aerator is necessary and essential for the operation of the plant; and

**WHEREAS**, Mid-America Pump has provided a proposal in the amount of \$39,569.05 and can make the repairs to the equipment.

### **NOW THEREFORE BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF SMITHVILLE, MISSOURI, AS FOLLOWS:**

**THAT** the Board authorizes the emergency repair proposal of the motor and aerator from Mid-America Pump in an amount of \$39,569.05

**PASSED AND ADOPTED** by the Board of Aldermen and **APPROVED** by the Mayor of the City of Smithville, Missouri, the 18<sup>th</sup> day of July, 2023.

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Damien Boley, Mayor

ATTEST:

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Linda Drummond, City Clerk



5600 Inland Drive  
Kansas City, Kansas 66106  
Phone 913-287-3900  
Fax 913-287-6641

## REPAIR PROPOSAL

SKP: **7811**  
Customer PO #:   
Prepared By #: **Brad Saul**  
Date: **6/22/2023**

Repair Estimate: **\$39,569.05**  
Replacement Price:   
Estimated Delivery:

### Customer Information

#### Bill To:

#### Contact Info:

#### Ship To:

Company Name: City of Smithville  
Address: 107 W. Main Street  
City: Smithville  
State/Zip Code: Missouri 64089-  
First Name: Bob  
Last Name: Lemley  
Phone: (816) 532-0070  
Fax: (816) 532-8331

Company:   
Address:   
City:   
State/Zip Code:

### Description of Problem

This is for repair/replacement of the aerator at the WWTP that was causing the whole plant to dim.

### Pump Information

Pump Make: Aqua-Lator  
Model: 10011-SF  
Style: Floating Aerator  
Pump RPM:   
Motor RPM: 885  
☐ Seal  
☐ Packing  
Serial No:   
HP: 100  
Voltage: 460  
Coupling:

### Repair Description

Repair proposal to include:  
-stator rewind with heaters  
-new motor bearings  
-new lip seals  
-new power and sensor cables  
-new portable entry connections for the cables  
-new pecker head gasket  
-new bushing deflector  
-new debris deflector  
-new slinger  
-new low trajectory difusser 48" diameter  
Labor to unwire and remove unit from the basin; teardown and inspect, clean up parts being reused, assemble and test.  
Labor to install unit and new power and heater cables, test run and set rotation.  
Truck and MLS charges

\*\*Lead time on rewind is 3-4 weeks, lead time on Evoqua parts is 6-7 weeks\*\*

\*\*Does not include FREIGHT or anything else not listed above, please see terms and conditions\*\*

### Application Information

Pumpage:   
Head:   
Flow:   
Temp:   
Viscosity:   
Specific Gravity:   
☐ Hazardous ☐ Rotation Left  
☐ MSDS ☐ Rotation Right

### Terms and Conditions

1 Freight Charges Not Included  
2 Taxes Not Included  
3 Expedite Fees Not Included  
4 Payment Terms - Net 30  
5 Warranty Period - 90 Days  
6 Proposal Vaild for 30 Days  
7 Teardown/Inspection/Field Service Hours/MLS  
will be charged if Equipment is Not Repaired or  
Replaced through Mid-America Pump