

TO: Mayor and City Council

FROM: Jed Petersen, Public Works Director

SUBJECT: Trial of GridBee® AP500 Wet Well Mixer

MEETING DATE: Tuesday, August 19, 2025

BACKGROUND

The Utilities Department is requesting approval to test the GridBee® AP500 Air-Powered Wet Well Mixer at the Park Street Lift Station. This station continues to be a maintenance challenge due to frequent buildup of fats, oils, and grease (FOG), which requires significant staff time and labor to manage.

As a potential solution, we would like to participate in a 30-Day Free Trial of the AP500 unit through KLM Engineering's "Try Before You Buy" program.

Purpose of the Trial:

- Evaluate the effectiveness of the AP500 in reducing FOG accumulation
- Measure improvements in staff efficiency and maintenance needs
- Assess durability, ease of use, and fit for our system

Product Features:

- Mixes to depths up to 10 feet
- Operates dry with no risk of damage
- No moving parts, long operational life
- Portable, installs through 14" diameter (or larger) openings
- Constructed of corrosion-resistant 316L stainless steel

Included Equipment (At No Cost for 30 Days):

1. (1) GridBee® AP500 Air-Powered Wet Well Mixer
2. (1) AU200 Air Unit
3. (50) feet of air hose
4. (50) feet of stainless-steel retrieval chain

Trial Conditions:

- City staff will install the equipment following the manufacturer's manual
- At the end of the trial, the city must notify KLM of intent to return or purchase the equipment
- Failure to respond by the 30th day will result in automatic invoicing
- Purchase price of the mixer after the trial is \$4,465.00

REQUESTED COUNCIL ACTION

Motion and approval to authorize this no-cost 30-day trial of the GridBee® AP500. If the equipment performs successfully and staff is satisfied with the results, we request authorization to proceed with purchasing the unit for continued use at the Park Street Lift Station at a cost of \$4,465.00.



**Test out the GridBee® AP500 Air-Powered Wet Well Mixer with a
“Try Before You Buy” 30-Day Free Trial.**

Features:

- Mixes to depths up to 10 feet of water. Contact us for mixing depths greater than 10 feet.
- Can be operated dry with no damage to the unit.
- Long life, no moving parts.
- Portable and easily deployed thorough a 14” diameter (12” square) or larger opening.
- 316L stainless steel construction.
- Patented flow technology.

Specifications:

- Mixer Dimensions: 12”x 11”x 25” Shipment Weight: 50lbs
- Air Unit Dimensions: 8”x12”x10” Shipment Weight: 25lbs – 120VAC, single phase, 275 watts

Equipment:

- KLM Engineering will provide the following equipment at no charge for 30 days from date of shipment:
 1. (1) GridBee® AP500 Air-Powered Wet Well Mixer
 2. (1) AU200 Air Unit
 3. (50) feet of air hose
 4. (50) feet of stainless-steel retrieval chain
- The Customer shall be responsible for placement of the equipment following the procedures detailed in the GridBee® AP500 Installation & Owner’s Manual.

At the end of the 30-day trial period, the customer must notify KLM via email to kfritze@klmengineering.com that they will be: purchasing the equipment or (returning the equipment within 10 business days) including the cost of shipping and handling. If KLM does not receive communication by the 30th day of the trial the customer will be automatically invoiced for the mixer.

Company: _____

Contact Name: _____

Phone Number: _____

Contact Email: _____

Address To Ship Mixer: _____

Sign & Date: _____

GridBee® AP500 Air-Powered Mixers

For Municipal & Industrial Lift / Pump Station Wet Wells

For Wet Wells and Lift / Pump Stations- The AP500 helps dissolve the grease layer, minimizes pump inlet clogging from wipes and other materials, and reduces H₂S odor & corrosion.

For Industrial and Municipal Tanks- The AP500 (and larger AP Series models) are an effective means to mix wastewater and most other industrial-use liquids in basins and reservoirs. The small size and efficiency of the AP500 makes it a great standby mixer to have on hand to add mixing fast when and where you need it!

What's In The Box



AP500 Mixer



Air Hose



Chain



Air Unit

Features:

- No moving parts
- Portable
- Easily installed through a 14" diameter (12" square) or larger opening
- 316L stainless steel construction
- Long Life
- Patented Flow Technology
- Can be operated dry with no damage to the unit

Optional Accessories:

- Air Unit Security Enclosure

Specifications:

- **Mixer Dimensions:** 12" X 11" X 25"
Shipment Weight: 50 lbs.
- **Air Unit Dimensions:** 8" x 12" x 10"
Shipment Weight: 25 lbs.
120 VAC, single phase, 275 watts

Stop Wipes. Fight Clogs.

Learn more at www.ixomwatercare.com



GridBee® AP500 Air-Powered Wet Well Mixers

RE: AP500 Units

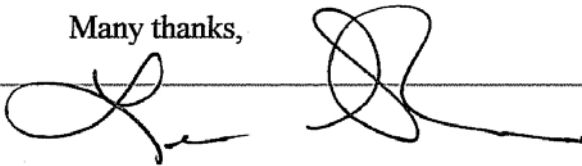
Ms. [REDACTED]

Hope this letter finds you and your team doing well. Just wanted to take a moment and say a personal Thank You on behalf of the utilities. The recent assistance that you and your group has provided for us went above and beyond for a study that has been very successful for the savings to not only the operations of the utilities, but ultimately the customers which are the ratepayers.

The newly installed AP500 units in our wastewater lift stations have made an impact so great, we are currently going to install the units in all of our stations across the system. The past routine was to wash, clean, vacuum, and add cleaning additives that had an extreme cost over a budgeted year, but with the new units we haven't had to conduct any of the routine measures to help with the chronic fats, oils, and grease in problem areas. In the locations we have currently installed that we have monitored over the past months shows an approximate \$1600.00 savings per month, per station when you factor the equipment, labor, material, etc. needed to do routine maintenance. We are very thankful for all your time in helping us learn the true possibilities of controlling those issues we were having. Unbelievable results, wish we knew it years ago.

Please don't hesitate to call, if I can ever assist you or your team.

Many thanks,



[REDACTED]
Supervisor of Field Operations