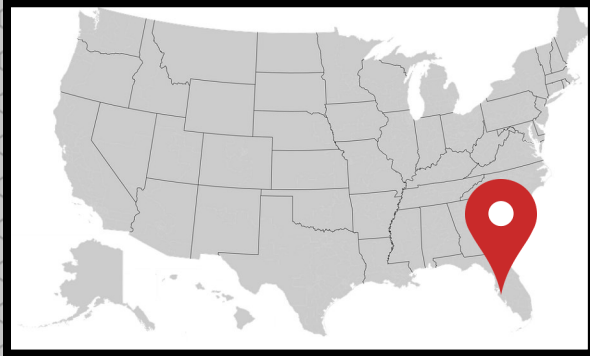


We solved ragging problems for  
Shady Hills, Pasco County

# FLORIDA



AERATION  
BASIN (4 LANE)



14MGD  
PLANT



MIXER  
APPLICATION

## PROBLEMS PRE-DERAGGER

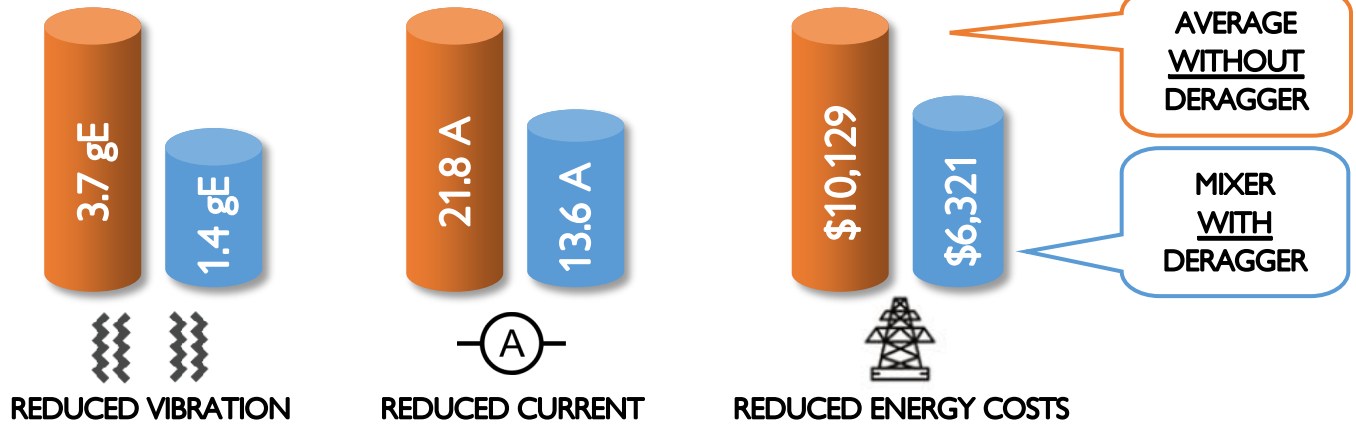
- Major upgrade in 2010, including aeration basin with additional Anox mixers and diffused air aeration.
- Since installation these suffered from build-up of rags on blades, which caused mechanical stress to the mounts, gearbox and bearings as well as increased energy consumption.
- The resultant 'wobble' of motor and gearbox caused significant damage to concrete base (see picture above).

## SOLUTION

- DERAGGER™ anti-ragging device installed on one Anox mixer as part of a 3-part trial.
- A vibration meter was attached to each mixer to evaluate deflection and vibration.

## BENEFITS

- DERAGGER™ proved to greatly reduce Vibration, Current Consumption and Energy usage.



VIBRATION REDUCED BY: **62%**  
CURRENT REDUCED BY: **38%**  
ENERGY COSTS REDUCED BY: **38%**

ESTIMATED ANNUAL ENERGY SAVINGS:  
**Over \$47,000**

All data in line with published White Paper, produced with Maynard E Vickers III, Treatment Plant Maintenance Supervisor, Pasco County Utilities.