

## CASE STUDY—OR-TEC MICRO BAR SCREEN

### Kingsland, Georgia WWTP



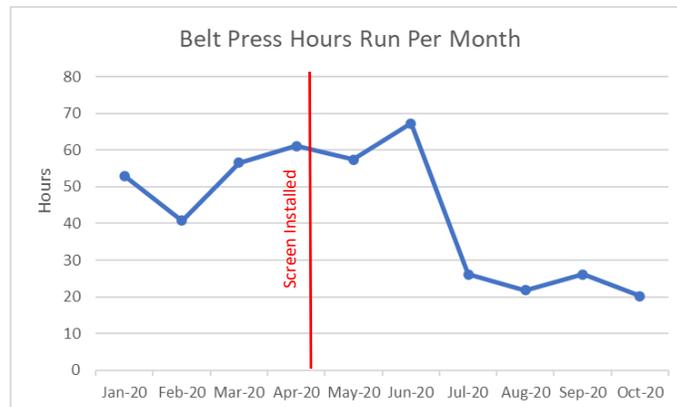
*Or-Tec Micro Bar Screen and Swan Neck Compactor*

Plant Size	2.2MGD
Equipment	Or-Tec Micro Bar Screen
Screen Spacing	2 mm
Startup Date	April 17, 2020



*This 2 mm screen lets nothing get past it!*

In mid-April of 2020, the City of Kingsland, GA installed a (2mm) Or-Tec Micro Bar Screen at the head of their 8 MGD plant. They were replacing a 1/4 inch, in-channel band screen because they needed better screening to protect their plant equipment and process. They were expecting their new screen, having tighter spacing, to reduce the amount of rags and debris in their plant. Eliminating rags would protect their downstream equipment and reduce the maintenance required on that equipment. What they did not expect were some of the other positive changes that happened downstream as a result of this remarkable screening technology. They were soon noticing improvements in their mixed liquor suspended solids (MLSS), and the amount of sludge that was being produced at their plant. That there were other benefits to the Micro Bar Screen is an understatement! Kingsland’s sludge hauling costs have been cut by more than half, and so has the run-time on their belt press and the associated polymer costs.

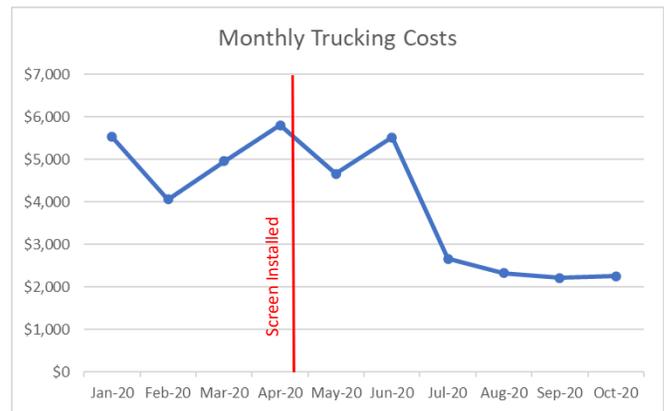
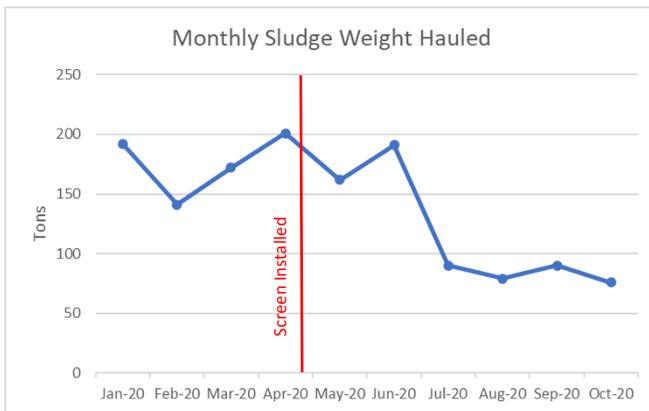


*The Belt Press monthly run time has been cut in half, along with reducing their associated labor, maintenance and polymer costs.*

Much more of the suspended solids are removed than with a typical screen. The picture to the right is the washed and compacted screenings. Much of this fibrous mass would have gone right past their previous screen, clogged pumps and aerators and caused maintenance problems.



***“The Micro Bar Screen catches a majority of the smaller particles such as any grit or sand and excess build-up in the channel is seldom a problem.”***  
***-Alan Drake, Plant Operator, Kingsland***



***By removing so much of the suspended and fibrous particles in the wastewater, Kingsland was able to reduce their sludge volume by about half and save around \$3,000 per month on trucking costs.***



***“You can see how fine and thorough the Micro Bar Screen is at catching inorganic material. Our experience with the new Micro Bar Screen has been very positive.”***

***-Alan Drake, Plant Operator, Kingsland***

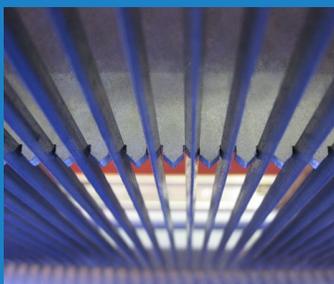
## Why choose an Or-Tec Micro Bar Screen?



A 2mm, 2 MGD screen installed at Hazlehurst, Georgia.



The teeth on the rake are very fine, but very strong, and keep the screen clean with no wear areas.



The secret sauce of the MBS is the reverse, triangular-shaped bars. They don't clog, have minimal headloss, and prevent rags downstream.

- ✓ **It's the Greatest Value:** The Micro Bar Screen is the most valuable screening technology because it removes the most screenings at the least cost
- ✓ **It has the Highest Capacity:** Due to low headloss, this screen can achieve a higher capacity than its competition while also providing much tighter screening
- ✓ **Uses No Washwater:** The elimination of wash water saves money and minimizes maintenance and operational costs
- ✓ **Has No Screen Bypass Points:** This eliminates maintenance in other areas of the plant due to ragging and clogging
- ✓ **It's Inexpensive to Install:** This screen can be easily installed in-channel which saves on civil works
- ✓ **Requires Minimal Maintenance:** The elimination of brushes minimizes maintenance

*"We are very pleased with the machine...it is low-maintenance and ...is adding (longer) life and efficiency to our plant."*

-R. Bayne Stone, Mayor, Hazlehurst, GA

## Special Features

- Screening down to 1 mm, in-channel or out
- Requires no wash water or brushes
- Unique triangular bar design eliminates clogging
- Excellent design for the handling of FOG
- Very low headloss, with finer screening
- Self-aligning and self-tensioning rakes
- All stainless steel
- Simple to install, simple to O&M
- Over 1,000 screens installed worldwide!

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