

## Marco Island Water & Sewer Maintain Class 1 Reliability with HUBER RPPS 1000 Fine Screen



*“Our choice to go with the 2mm screens brings with it a vendor who completely understands and supports the operation of wastewater treatment facilities. The RPPS 1000 Fine Screens give us the greatest potential for keeping our membrane bioreactor intact.”*  
- Jon Pratt, Plant Manager/Project Manager, City of Marco Island Water & Sewer

The Water and Sewer Department of Marco Island was designing a new headworks. The design’s determining factor was the type of screens the City would choose. After auditioning six of seven vendors for the job, the 16-person selection committee unanimously determined that HUBER would be the vendor to provide the 2mm screens it would employ to maintain its Class 1 reliability.

**Challenge:**

Marco Island Water and Sewer Department had a big decision to make. And subsequent decisions rest upon this one. Operating a membrane bioreactor plant, plant manager and project leader Jon Pratt also knew that this big decision would be important to preserving the integrity of its treatment process. In short, it was critical that they keep rags and debris away from its bioreactor and that would come down to choosing the best product for the job.

**Solution:**

The selection committee, of which Jon was a part, determined that a 2mm screen would give them their membrane bioreactors the best potential for remaining as rag and debris free as possible and would maintain their Class 1 reliability or better. And this 2mm screen was the HUBER RPPS 1000 Fine Screen.

Three factors drove the selection committee's decision:

1. Ease of maintenance
2. Preventative maintenance program
3. Greater reliability

"From the auditions of other products, we know that competitors' screen allowed for too much head loss and that would send more rags and debris into the membrane bioreactor."

-Jon Pratt, Plant Manager/Project Manager, City of Marco Island Water & Sewer

With HUBER products, there is hardly anything to maintain. Stainless steel construction, automation and self-cleaning capabilities leave little for completing manually.

HUBER provides a preventative maintenance



program that surpasses expectations and provides expertise equivalent to the critical nature of the equipment.

HUBER's RPPS 1000 fine screen allows for operating three channels instead of two. This makes it possible for the City to maintain Class 1 reliability even during peak flows.

"HUBER provides a great product supported by a program that ensures the products are properly cared for. Our team is working alongside the HUBER experts so that we are more knowledgeable about maintaining the equipment that is critical to our plant's operation."

-Jon Pratt, Plant Manager/Project Manager, City of Marco Island Water & Sewer

**Maintaining a Constant Flow**

After screening, all raw sewage goes to an equalization tank. 2m gallons of storage in a 4.9MGD plant ensures that Marco Island's flow stays pretty

"We are lucky because we can equalize the peaks that approach the plant and can therefore keep our flows constant easing the stress on our equipment. It's also to our advantage that we have a high pressure wash on top of the headworks. We were the first to get this from HUBER."

-Jon Pratt, Plant Manager/Project Manager, City of Marco Island Water & Sewer

constant except for during head pressure tweaks.

**The benefits of the RPPS 1000 are significant:**

BENEFIT: Cleaning time cut in half  
BEFORE: 6 cassettes take a month to clean  
AFTER: 6 cassettes take 2 weeks to clean  
BENEFIT: 3 times more screenings captured  
BEFORE: Dumpsters that are ½ full picked up 2 times a week  
AFTER: Dumpsters that require forklifts to move them picked up 3 times a week

“We couldn’t imagine better results. Less rags and debris make it down the channel to even have the potential for harming the membranes. And we get these results without major maintenance. We’ve had nothing major in 3 years.”

-Jon Pratt, Plant Manager/Project Manager, City of Marco Island Water & Sewer

“One of our priorities is to make sure that each channel gets enough flow. Ignoring this will manage this the dumpsters will overflow. The fine screens work so well capturing large volumes of screenings that we must watch the channel flow levels closely.”

-Jon Pratt, Plant Manager/Project Manager, City of Marco Island Water & Sewer

require human intervention and new initiatives. No one can question durability and reliability with a product that can stand up to Mother Nature. HUBER’s RPPS 1000 screens are efficient and durable. Cat 4 Hurricane Irma couldn’t even take them down. They were running when the hurricane

“Of course, we check in every so often – for our own satisfaction – just to make sure that no issues have arisen.”

-Jon Pratt, Plant Manager/Project Manager, City of Marco Island Water & Sewer

**Performance That Produces Results**

The automation and alert components of HUBER’s products free up operational staff for tasks that

struck land and still operating when the team returned to the facility.



HUBER serves the municipal and industrial wastewater treatment market with high quality liquid-solid separation technology. HUBER Technology offers the complete chain of screening, grit and sludge handling processes. The company is an original source manufacturer specializing in stainless steel fabrication of technologies for water and wastewater with proven experience and expertise with over 40,000 installations worldwide.