

BETTER WATER. BETTER WORLD.®

## WWTP Lider Mundial de Equipos para Refrigeracion

B E T T E R   W A T E R .   B E T T E R   W O R L D .

### PROJECT OVERVIEW:



#### LOCATION:

Carr. Monterrey - Nuevo Laredo, Ciénega de Flores, Nuevo Leon

#### PROJECT NAME:

Wastewater Treatment Plant "Lider Mundial de Equipos para Refrigeracion"

#### TREATMENT CAPACITY:

110 MCD

#### APPLICATION:

Commercial

#### DISTRIBUTOR:

Aqua JaKer S.A DE C.V - Patricio Jacques



#### MANUFACTURER:

BioMicrobics Inc.

#### EQUIPMENT USED:

- x1 MyFAST® 4.0
- x1 MyTEE 4.0
- x1 AMS® 4.0
- x1 SaniTEE® 1618



### CHALLENGES

The main challenge of this project was to channel the water discharges from the new bathrooms located in an industrial warehouse that was separate from the main plant, at the same time, integrate the water discharge from the bathrooms located in the old industrial warehouse, resulting in a reception of approximately 100 cubic meters of wastewater per day.



### THE SYSTEM DESIGN

The following solutions were implemented:

- Water Channeling: A slope was manufactured to channel the water, culminating in a pumping station that directs the flow to the treatment plant.
- Input Flow Measurement: Upon arrival at the plant, a parshall channel was installed to measure the inlet flow, followed by an initial pretreatment zone.
- Pretreatment System (MyTEE® 4.0): In this stage, non-biodegradable solids and sand present in the water was eliminated.
- Pre-Aeration System (AMS® 4.0): After pretreatment, the water passes through another finer filter.
- Fine Filtering (SaniTEE® 1618): The water subsequently passes through another finer filter
- MyFAST® 4.0: In this stage the water with dissolved organic matter comes into contact with the certified brand BioMicrobics sanitary wastewater treatment module, known as FAST Fixed Activated Sludge Technology.
- Tertiary Treatment: The water is pumped through sediment and activated carbon filters, with chlorine dosage to eliminate remaining contaminants.
- Storage Tank: Finally, the treated water is stored in a 500 cubic meter tank. From this tank, the water is pumped back to the bathrooms to be reused in the toilets.

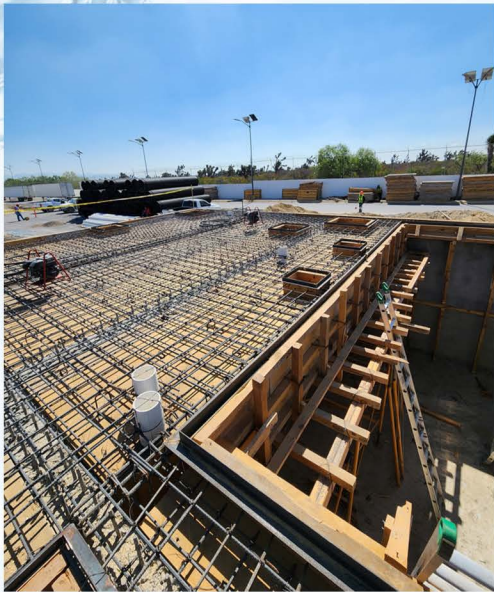
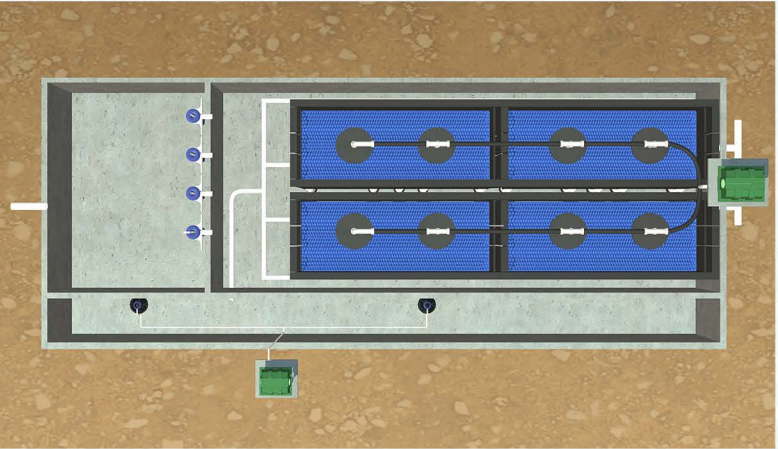
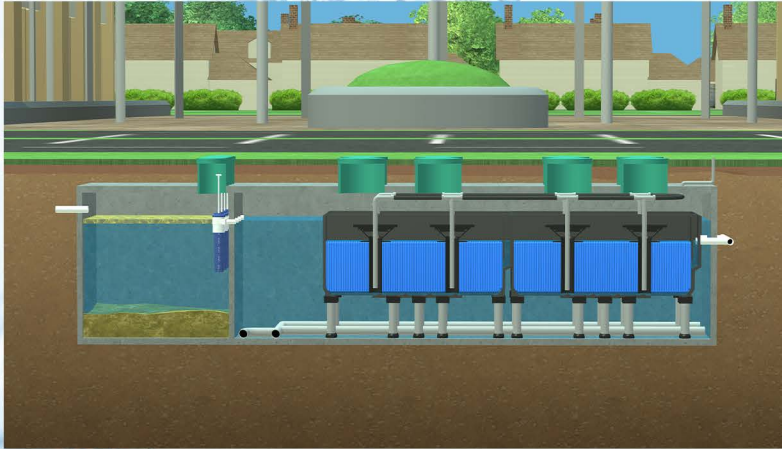


S I M P L E .   L O W   C O S T .   R O B U S T .

# MyFAST<sup>®</sup> wastewater treatment systems

MyFAST<sup>®</sup> is a larger FAST system that is engineered for the needs of onsite wastewater treatment with flows in the 10,000 to 160,000 GPD. This advanced wastewater

treatment system uses Fixed Activated Sludge Technology (FAST) to break down organic material and nutrients in wastewater. Advantages of the system include but are not limited to: No full time operator needed, all submerged components are permanent, no moving parts under water, achieves secondary effluent standards and nutrient reduction, etc. Applications include: Multi-Family Properties, Clustered Subdivisions, Small Municipalities and High Strength Commercial Applications.



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<https://biomicrobics.com/>

**SeptiTech**<sup>®</sup>  
 a subsidiary of BioMicrobics, Inc.  
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**SCIENCO/FAST**<sup>®</sup>  
 a division of Bio-Microbics, Inc.  
<https://www.sciencofast.com/>

**SCIENCO/FAST InTank<sup>®</sup> BWTS**  
 Ballast Water Treatment System  
<https://www.intankballast.com/>