EFFICIENT SOLUTION FOR SEDIMENTED SLUDGE REMOVAL

SUBMERGED SLUDGE REMOVAL SYSTEM



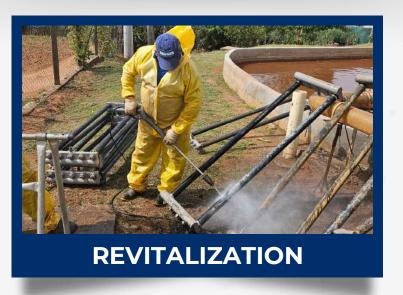
BIOSIS

We are one of the leading Brazilian companies in equipment, engineering, and services for water and wastewater treatment. For over 15 years, we have been providing customized solutions for both industry and the public sector, focusing on effectiveness and efficiency.

PRODUCTS AND SERVICES















OUR CLIENTS

























































BIOSIS ACROSS BRAZIL









SLUDGE REMOVER

WINS TWO AWARDS IN 2024





TECHNOLOGICAL INNOVATION CATEGORY (AESABESP)









CHALLENGES WITH SLUDGE ACCUMULATION



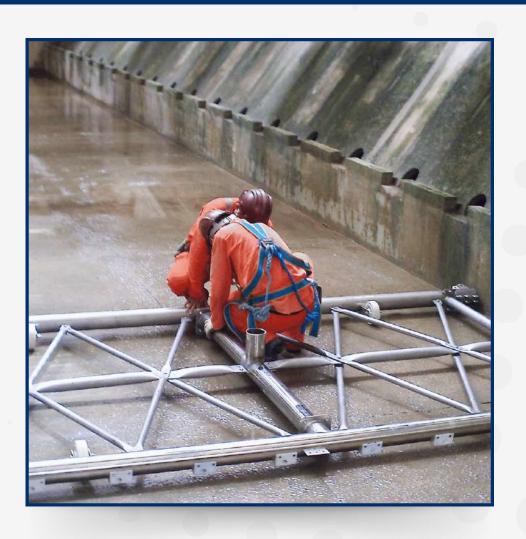
SLUDGE BUILDUP IN CLARIFIERS CAN CAUSE SERIOUS OPERATIONAL ISSUES.

- Reduced storage capacity
- Compromised water quality
- Decreased treatment efficiency
- Increased maintenance costs



BIOWASSERTRACK: THE ULTIMATE SOLUTION FOR SLUDGE REMOVAL IN CLARIFIERS





The **BioWasserTrack** is a hydromechanical, manageable, and automated system that continuously and systematically removes sedimented sludge, preventing buildup.



ADVANTAGES OF THE SUBMERGED SLUDGE REMOVAL SYSTEM

Custom-Engineered for each clarifier, aligned with the operational profile of each treatment plant, focusing on efficiency and effectiveness.



ENSURES HIGH QUALITY
OF CLARIFIED WATER AND
SUSTAINABILITY IN TREATMENT



SIMPLIFIED, FLEXIBLE, AND PREDICTABLE OPERATION, ENABLING SUSTAINABLE PRACTICES FOR THE DISPOSAL OF DECANTED SLUDGE.



PROMOTES A SIGNIFICANT
REDUCTION
IN OPEX DURING THE
DECANTATION PROCESS



ENHANCES PRODUCTIVITY, AS IT ELIMINATES THE NEED FOR CLARIFIER SHUTDOWNS FOR CLEANING.



APPLICATIONS AND REQUIREMENTS

WTP

DECANTATION PROCESS IN WATER TREATMENT

- Rectangular clarifier
- Flat and uniform bottom
- Applicable to any process

-WWTP

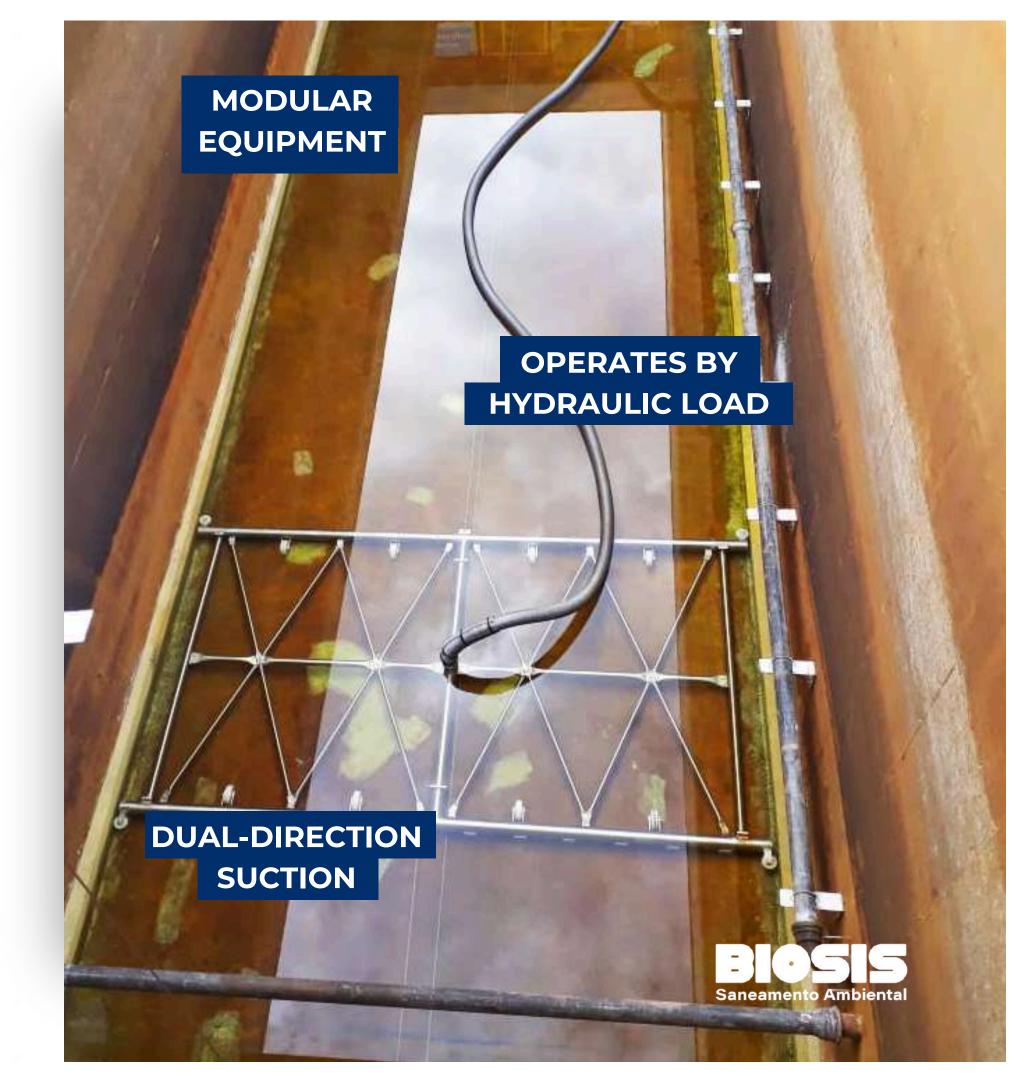
DECANTATION PROCESS IN WASTEWATER TREATMENT

- Rectangular clarifier
- Flat and uniform bottom
- Applicable in the tertiary stage

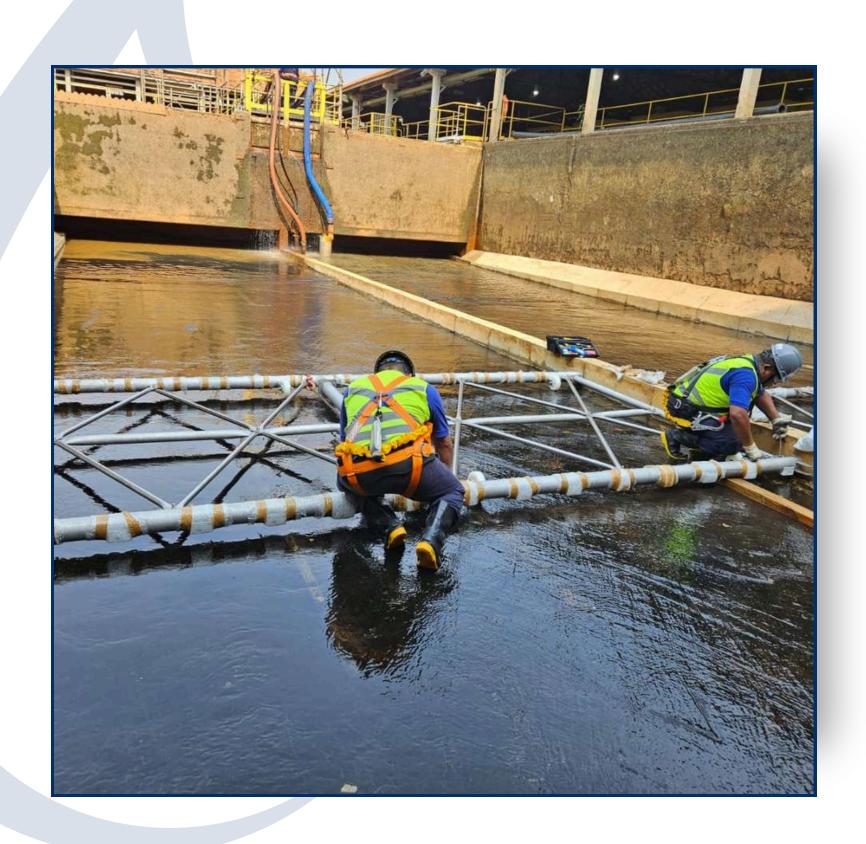


MATERIAL QUALITY AND MODULARITY

- **High-Quality Materials:** Stainless steel structure and advanced engineering components.
- Versatility: Adaptable to tanks of various sizes.
- Superior Durability: Robust construction for a long service life.



INNOVATION AND SAFETY



- Easy Movement: The BioWasserTrack moves smoothly on side rollers.
- No Rails or Tubes: Eliminates the need for rails or telescopic pipes.
- Safe Operation: Prevents jamming, derailment, and warping.
- **Higher Efficiency:** Ensures safer and more effective operation.



AUTOMATION AND CONTROL



Flow valves are operated by electric actuators, controlled via the panel's PLC communication system.

The control panel includes a PLC (Programmable Logic Controller) and HMI (Human-Machine Interface) to optimize sludge removal efficiency by adjusting flow rate and concentration.

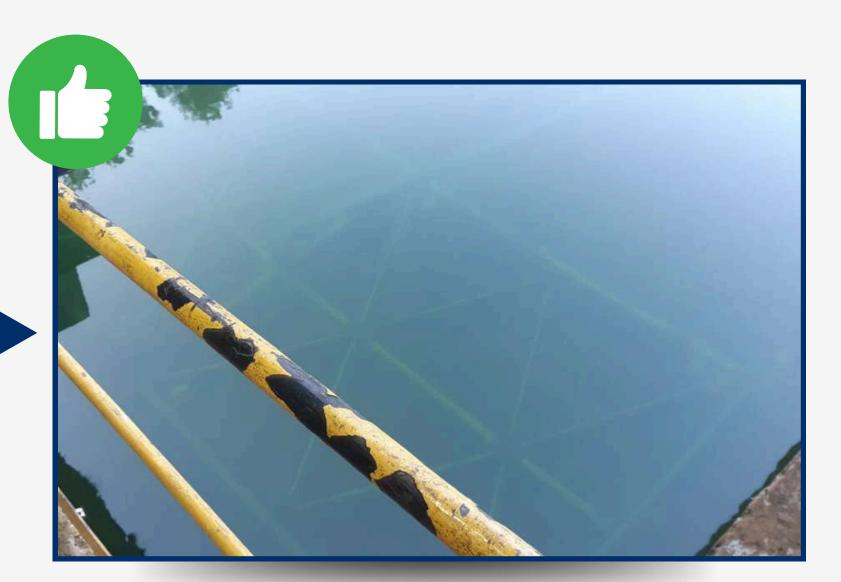




BEFORE X AFTER



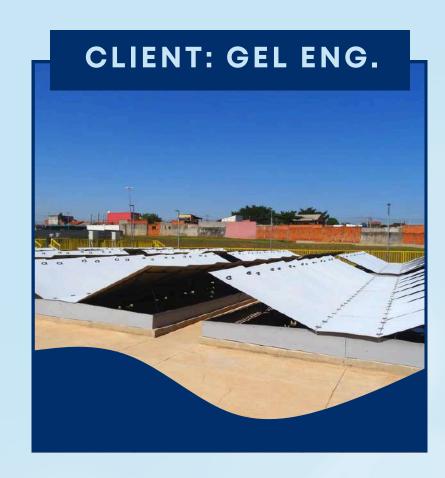




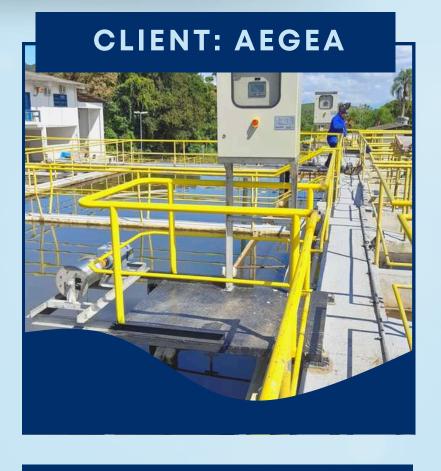
WTP WITH BIOWASSERTRACK

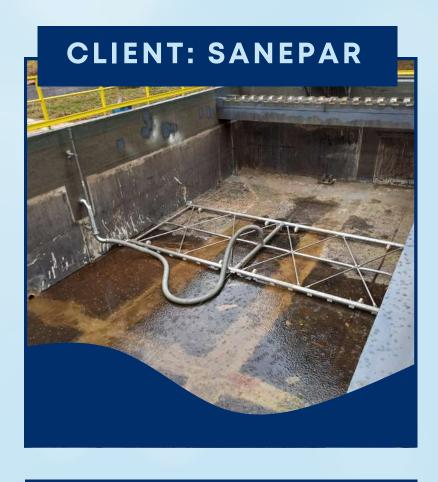


SUCCESS CASES









Plant: Vitória Régia WTP

Flow rate: $0.75 \text{ m}^3/\text{s}$

Location: Sorocaba/SP

Project: New WTP Quantity: 04 units Size: 5.00 x 2.60 m

Commissioned: 2020

Plant: Espírito Santo do Pinhal

Flow rate: $0.18 \text{ m}^3/\text{s}$

Location: Espírito Santo do Pinhal/SP

Project: Expansion
Quantity: 04 units
Size: 5.90 x 3.10 m
Commissioned: 2021

Plant: Rócio Grande WTP

Flow rate: $0.17 \text{ m}^3/\text{s}$

Location: São Francisco do Sul/SC

Project: Retrofit
Quantity: 03 units
Size: 6.20 x 3.00 m

Commissioned: 2022

Plant: São Luiz WWTP

Flow rate: 10 L/s

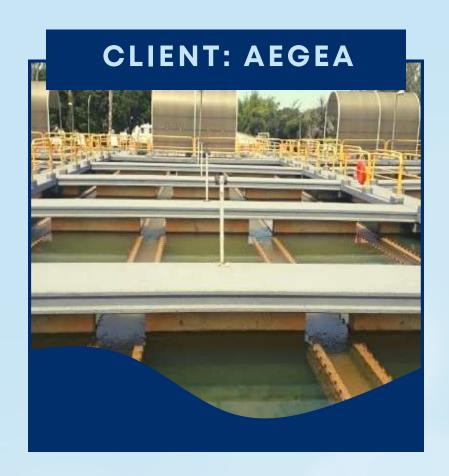
Location: Cornélio Procópio/PR

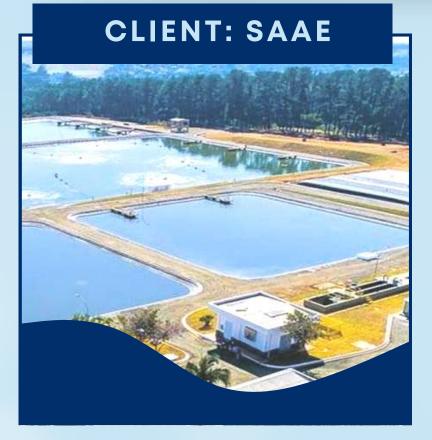
Project: New WWTP Quantity: 02 units Size: 6.00 x 3.00 m

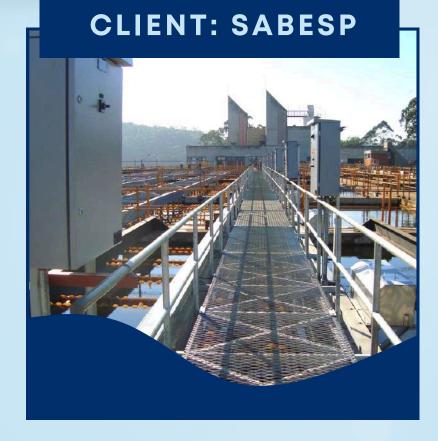
Commissioned: 2023

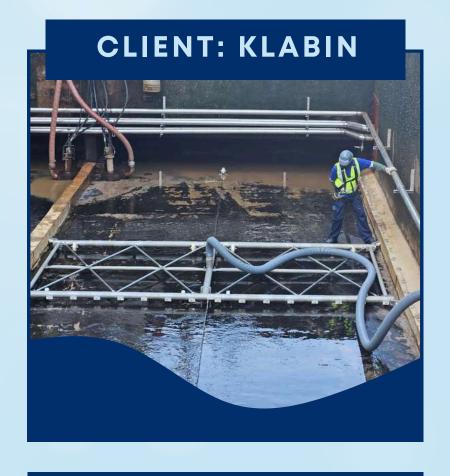


SUCCESS CASES









Plant: Juturnaíba WTP Flow rate: 1.2 m³/s

Location: Araruama/RJ

Project: Expansion Quantity: 03 units Size: 8.64 x 27.80 m Commissioned: 2003 Plant: WTP VI

Flow rate: $0.15 \text{ m}^3/\text{s}$

Location: Santa Bárbara D'Oeste/SP

Project: Retrofit
Quantity: 04 units
Size: 10.50 x 22.08 m
Commissioned: 2008

Plant: Rio Grande WTP

Flow rate: $5.50 \text{ m}^3/\text{s}$

Location: São Bernardo do Campo SP

Project: Retrofit
Quantity: 12 units
Size: 11.60 x 30.80 m

Commissioned: 2009

Plant: São Luiz WTP

Flow rate: 10 L/s

Location: Telêmaco Borba/PR

Project: New WTP

Quantity: 12 units

Size: 5.70 x 3.00 m

Commissioned: 2024



CASES DE SUCESSO







Plant: Cerrado WTP Flow rate: 3.00 m³/s Location: Sorocaba/SP

Project: Retrofit
Quantity: 12 units
Size: 15.10 x 57.00 m
Commissioned: 2009

Plant: Ituiutaba WTP Flow rate: 0.57 m³/s Location: Ituiutaba/MG

Project: Retrofit
Quantity: 04 units
Size: 27.25 x 7.30 m
Commissioned: 2019

Plant: Mauro Borges WTP

Flow rate: 5.33 m³/s Location: Goiânia/GO

Project: Expansion
Quantity: 02 units
Size: 4.80 x 2.50 m
Commissioned: 2019





PARTNERSHIP WITH BNDES

Take advantage of BNDES financing benefits, making the acquisition of the BioWasserTrack more accessible and financially viable.



CONTACT US

Business Hours Monday to Friday: 8:00 AM – 5:00 PM

WhatsApp: Chat with a Consultant Figure 1. The consultant of the

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