

Case Study: Highveld Mushrooms

Innovative Wastewater Solution
Cultivates Sustainability.

Overview

Highveld Mushrooms contacted Calcamite to address their unique wastewater challenges.

With no municipal connection, the mushroom farm required an effective on-site treatment system.

Calcamite provided their Bio-mite 100 system, a compact treatment plant suitable for the farm's daily capacity of 20,000 liters, ensuring compliance and sustainability.

Requirements/On-site challenges

The mushroom farm's location lacked access to municipal wastewater services, necessitating a self-sufficient solution.

Solution

Calcamite installed the Bio-mite 100 system, comprising a primary septic tank and a secondary tank fitted with fixed film plastic media for biomass adhesion.

The continuous aeration process encourages aerobic bacteria to break down organic compounds.

For the final touch, chlorine disinfection was used to ensure the treated water was safe for irrigation, eliminating harmful pathogens and securing the farm's operational health standards.

Client information

Highveld Mushrooms, a leader in sustainable agriculture, showcases its commitment to environmental stewardship by implementing advanced wastewater treatment solutions.



Location

Knoppies Laagte, Centurion



Industry

Industrial



Plant size

20,000L per day



Project date

Prior to 2015

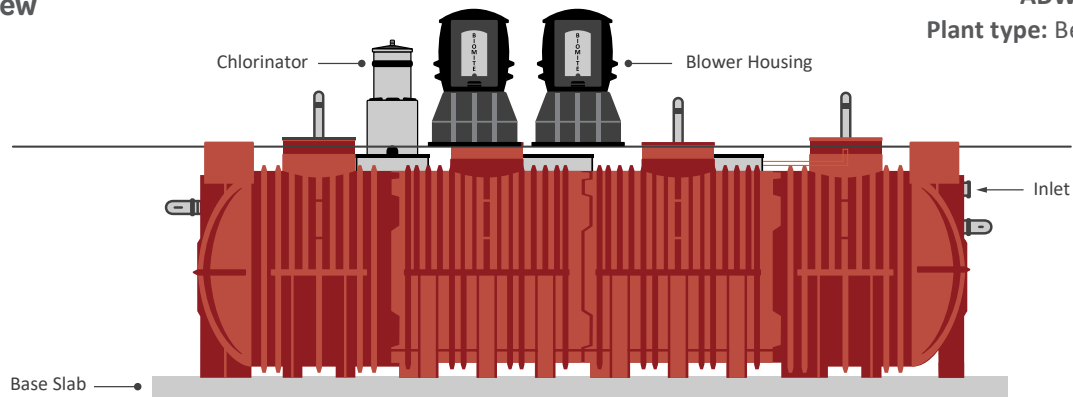


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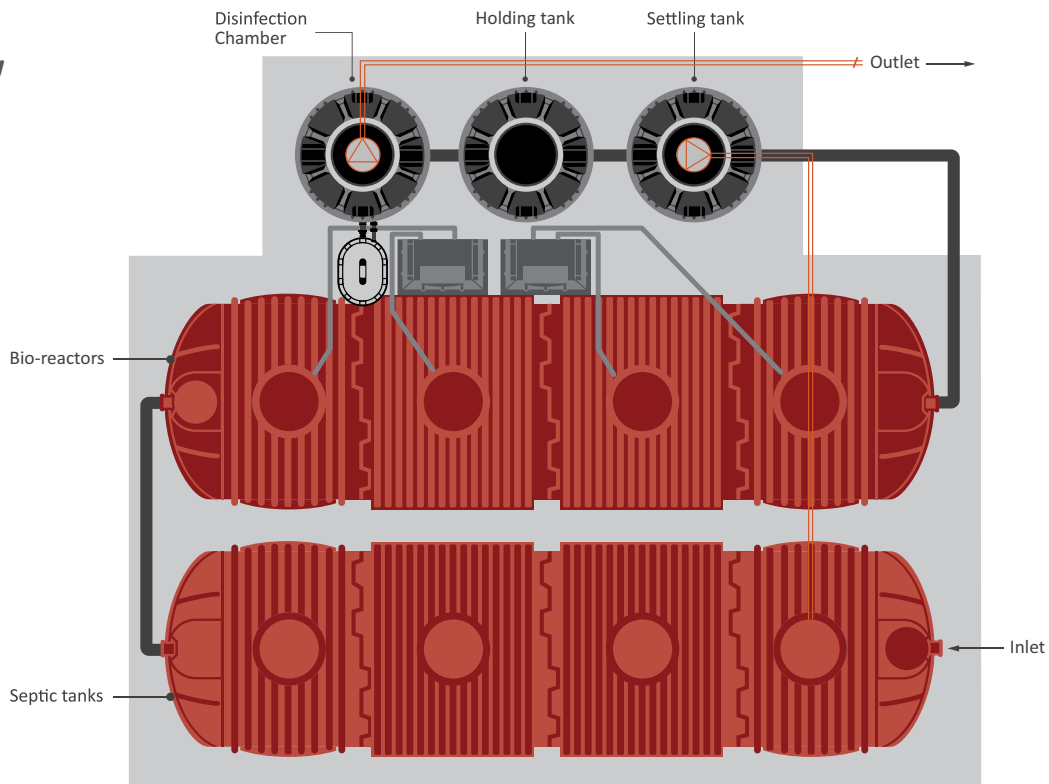
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Plant specifications

Side view



Top view



Conclusion

The wastewater treatment system implemented by Calcamite at Highveld Mushrooms stands as a benchmark of environmental responsibility and operational efficacy in the agricultural sector. By effectively treating and repurposing wastewater for irrigation, this initiative not only conserves precious water resources but also showcases a sustainable approach to waste management. It upholds the delicate balance between industrial demands and ecological preservation, ensuring the well-being of the environment and the community that depends on it.