



From Used Oil Collection to Controlled Waste Management

How Ariescor Water Engineered a 2 CMD BioCube™ Solution for Kerith Brooks Trading

Collecting used oil is only one part of responsible waste management. For facilities that receive and handle used oil from multiple establishments, the greater challenge lies in ensuring that the collected waste is properly stored, handled, treated, and managed in accordance with environmental regulations. For **Kerith Brooks Trading**, a Treatment, Storage, and Disposal (TSD) facility in **Manatal, Pandi, Bulacan**, establishing a dedicated waste management system was an important step toward strengthening its operational capabilities and supporting its DENR regulatory requirements.



Completed BioCube™ system at Kerith Brooks Trading

Kerith Brooks Trading is engaged in the collection of used oil from restaurant establishments. As part of its operations, the facility needed to establish the appropriate infrastructure and demonstrate proper management of the collected used oil in accordance with applicable **Department of Environment and Natural Resources (DENR)** requirements. Prior to the implementation of the Ariescor Water treatment, the facility primarily focused on the collection and temporary handling of used oil, without a dedicated on-site treatment system designed specifically to support its waste management operations.

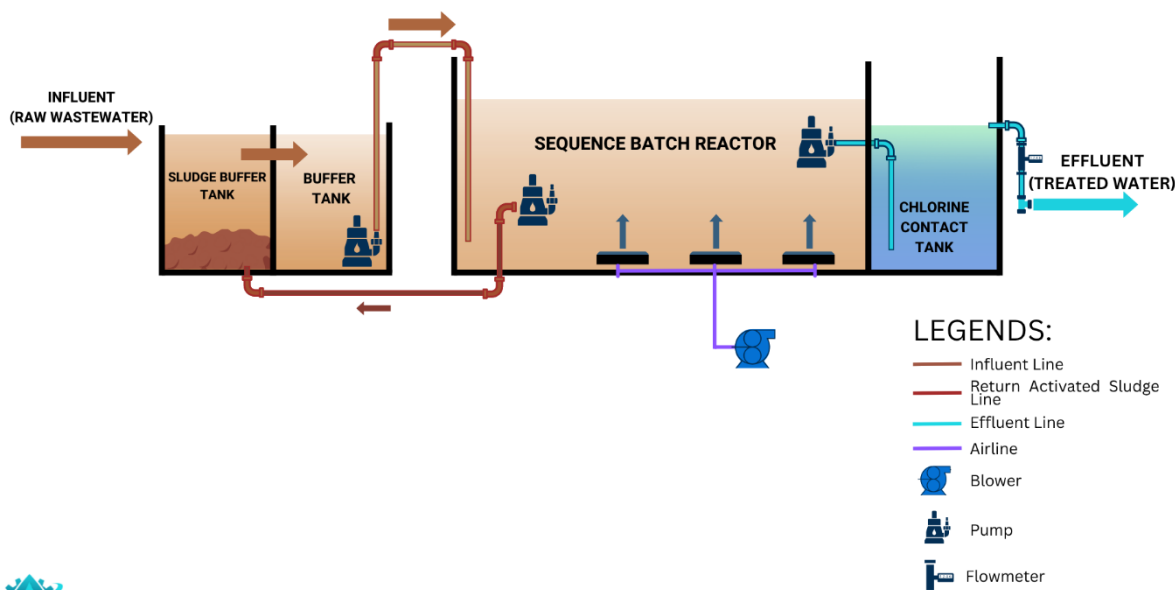
This created several operational and regulatory challenges. Without an appropriate facility for systematic storage, handling, and treatment, collected used oil would require coordination with authorized third-party facilities for appropriate treatment, recovery, or disposal. This added logistical requirements and operating considerations while limiting the facility's ability to manage collected waste through a more controlled on-site process. Improperly controlled storage and handling could also increase the risk of spills, leaks, environmental contamination, and potential non-compliance with hazardous waste management requirements.



The challenge, therefore, was not simply to install a treatment unit. Kerith Brooks Trading needed a solution that could integrate into its existing operations and provide a more systematic approach to receiving, storing, handling, and treating collected used oil. Ariescor Water approached the project by considering the facility's operational requirements, treatment capacity, available space, and applicable environmental requirements to develop a solution suited to the site's specific needs.

The result was the implementation of a **2 CMD BioCube™ treatment system**, designed to provide a dedicated platform for the controlled management of collected used oil. Rather than relying solely on temporary storage and external handling arrangements, the system provides a structured treatment process that supports more efficient waste management within the facility.

PROCESS FLOW DIAGRAM



BioCube™ treatment process and process flow

The BioCube™ is designed around a controlled treatment process that minimizes the need for manual intervention and does not require the addition of treatment chemicals during normal operation. This eliminates chemical consumption associated with the treatment process and removes the corresponding requirements for chemical procurement, storage, and handling. By integrating treatment into the facility's waste



management workflow, the system provides a more organized approach to managing collected used oil while supporting operational control.



During installation and commissioning

The dedicated treatment system also provides an opportunity to improve resource management. Through the treatment and separation process, collected used oil can be managed and separated for appropriate recovery, reuse, or disposal, subject to applicable DENR requirements. This creates a more controlled pathway for handling collected waste and can help reduce unnecessary external handling and hauling requirements.

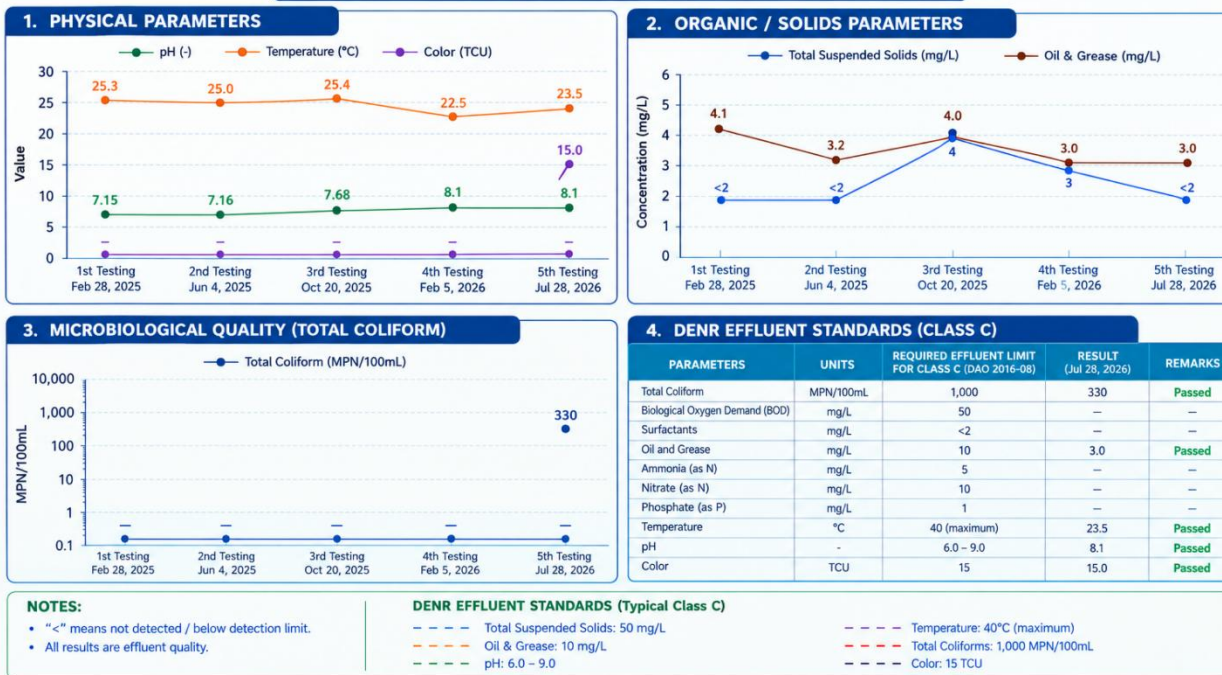
From an operational perspective, the BioCube™ helps streamline the movement of collected used oil through the facility—from receiving and storage to treatment and subsequent management. A dedicated system reduces dependence on fragmented waste handling practices and provides facility personnel with a more systematic process for managing incoming waste streams.

The economic impact is equally important. The BioCube™ has an annual maintenance cost of approximately **₱76,120**, providing the facility with a defined maintenance requirement for planning purposes. The system also operates without treatment chemical consumption, eliminating the recurring cost of purchasing, storing, and handling treatment chemicals. By providing an on-site treatment capability, the facility can further optimize waste management logistics and potentially reduce unnecessary external treatment and handling requirements, subject to the applicable regulatory arrangements.



Kerith Brooks Trading Biocube™ Effluent Performance

Sampling Dates: Feb 28, 2025 | Jun 4, 2025 | Oct 20, 2025 | Feb 5, 2026 | Jul 28, 2026



The Kerith Brooks Trading wastewater treatment system using Biocube™ Technology has maintained effluent quality within regulatory limits, demonstrating stable and effective treatment performance across the monitoring events.

Influent and effluent laboratory results demonstrating treatment performance

The system is designed around a **2 CMD treatment capacity** and targets compliance with the applicable **DENR Effluent Standards – Class C**. Actual influent BOD/COD values, effluent laboratory results, and other applicable parameters should be presented here to provide documented proof of treatment performance. For Kerith Brooks Trading, the project represents a shift from simply collecting used oil toward establishing a more controlled and systematic waste management operation. The facility now has a dedicated treatment platform that supports improved handling, greater operational control, reduced chemical requirements, and more structured waste management.

More importantly, the project demonstrates how water and waste management technology can be integrated into the operational realities of a TSD facility. For businesses handling regulated waste streams, compliance is not achieved through equipment alone—it requires the right combination of infrastructure, process control, proper handling practices, and regulatory management.

Through the BioCube™, Ariescor Water provided Kerith Brooks Trading with an engineered platform designed to support these requirements. The project reflects Ariescor Water's approach to developing practical treatment technologies that address real operational challenges while helping organizations build more controlled, efficient, and environmentally responsible waste management systems.



Final project installation at Kerith Brooks Trading

From collection to controlled treatment, the Kerith Brooks Trading project demonstrates that better waste management begins with the right infrastructure. By combining engineering, automation, and treatment technology, Ariescor Water continues to develop integrated water and wastewater technology platforms that help facilities move toward more efficient operations, stronger environmental management, and long-term regulatory readiness.



Client Testimonial

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Thank you, Team Ariescor, for years of partnering with Kerith Brooks Trading in maintaining our Wastewater Treatment Facility. Your continued support/assistance is invaluable for our company to avoid unnecessary penalties from DENR. We are proud to be your first ever client, and proud of where you are now. Cheers to more years of partnership. GOD BLESS YOU MORE!!!

Mr. Henry Basco
Owner