



# Ensuring Compliance and Continuous Water Quality Monitoring with KETOS SHIELD

Fortune 500 Multinational Conglomerate Manufacturer Extended their Workforce with the KETOS SHIELD to Improve Water Quality and Prevent Future Lapses in Compliance

## KETOS Customer

A Fortune 500 multinational conglomerate that produces over 60,000 products leveraged in the worker safety, health care, and consumer goods industries. The company manufactures products under a variety of brands which include adhesives, abrasives, laminates, passive fire protection, personal protective equipment, window films, paint protection films, dental and orthodontic products, electrical and electronic connecting and insulating materials, medical products, car-care products, electronic circuits, healthcare software, and optical films.

The company installed the KETOS solution at a 2,000,000-square-foot manufacturing facility for specialty resins and specialty films.



## Challenge

This plant, in particular, had been cited in litigation related to health and environmental complaints. As a result, the plant operations team needed to proactively understand the composition of its water matrix on a 24/7 basis.

Staffing and budget constraints made it impossible for operators to be on-site 24/7 to collect samples and continuously monitor water quality. In addition, it was impossible to add lab personnel or lab expenses and achieve real-time water quality visibility.

The team needed to autonomously monitor multiple water quality parameters in real-time to make data-driven decisions and proactively address potential issues.

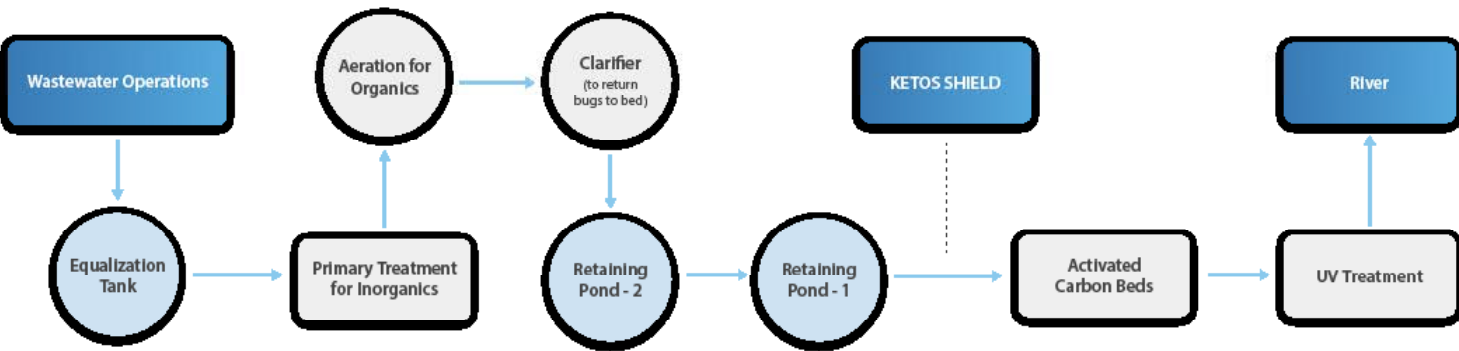
## Solution

The wastewater treatment process includes primary, secondary, and tertiary water treatment before final discharge to the river. The operations team implemented the KETOS SHIELD remote water quality monitoring device at the secondary treatment phase before the activated carbon beds and UV treatment.

The KETOS SHIELD autonomously monitors for the following parameters:

- |                 |                     |             |
|-----------------|---------------------|-------------|
| ✓ Fluoride      | ✓ Residual Chlorine | ✓ Calcium   |
| ✓ Free Chlorine | ✓ Total Hardness    | ✓ Magnesium |

The client received access to the KETOS Smart Water Intelligence platform. With the help of the KETOS customer success team, they configured it to meet their operational needs. Now, if the KETOS SHIELD detects a parameter that is out of range, the team receives alerts via email, SMS, or mobile app. Over time, alert thresholds can be configured and modified to meet the team’s evolving needs. In addition, the tiered alert system allows the team to have internal and external metrics with custom treatment planning for both thresholds. As a result, the team is more informed, better prepared, and able to act proactively.



Benefit / Outcome

After the KETOS installation, operators configured water quality dashboards to highlight the most critical parameters. The plant operations and corporate management team could quickly review water quality dashboards. As a result, all stakeholders know the composition and quality of water in real time, and the operations team can treat, manage, and responsibly discharge water.

In addition, because the team’s ability to efficiently treat and recycle water has improved, a lower percentage of treated water enters the environment, and chemical costs have decreased.

Over time, because water quality data is collected consistently, the team can leverage historical views, trend analysis, and even predictive intelligence to improve site operations and overall efficiency. In addition, the team can:

- Better ensure wastewater quality and permit compliance.
- Meet or exceed corporate sustainability expectations.
- Automate sustainability data dashboards for enhanced ESG reporting.
- Integrate actionable water metrics along with other EHS data of importance to the org.
- Leverage interoperable data to holistically assess the impact of plant operations due to water quality - leading to sustainable water management.



## About KETOS

KETOS is a fully integrated platform that combines hardware, software, connectivity, automated reporting, predictive analytics, and maintenance to automate water monitoring and testing. KETOS enables water operators to identify and solve mission-critical water efficiency and quality challenges in real-time, or before they happen through predictive algorithms, to ensure that water meets specific quality and safety standards.

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### Connect With Us



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