



From Penalty to Precision:

How a leading plastic resin & petrochemical manufacturer trusted KECO to meet Clean Water Act standards & save millions

BACKGROUND

After a **\$50 million settlement**, a leading plastic resin and petrochemical manufacturer agreed to resolve Clean Water Act violations after allegations of excessive plastic pellet discharge into **Texas waterways**.

This historic fine underscored the urgent requirement for advanced monitoring systems to prevent future environmental infractions and financial penalties.

CHALLENGE

The company required a reliable, real-time monitoring solution to **accurately detect pollutant levels in wastewater and cooling tower lines**, far surpassing the capabilities of previous methods.

Achieving compliance meant installing continuous, precise VOC monitoring to meet strict regulatory standards.

SOLUTION

Deployment of 4x Model 204 KECO Analyzers

- Measures aromatic & aliphatic
- Automated alerts
- General purpose or explosion proof
- No routine calibrations required
- ASTM-approved accuracy
- TCEQ "Best Available Control Technology" & "Equivalency" Letters



RESULTS

- **Compliance & Risk Reduction:** Continuous monitoring aligned the company with environmental standards, reducing fines and strengthening community trust.
- **Efficiency & Cost Savings:** Real-time data optimized cooling tower and wastewater processes, lowering chemical use and waste.
- **Long-Term ROI:** Reduced compliance costs and operational efficiencies generated a fast ROI, with ongoing savings from analyzer longevity.