



METAFLO
technologies™

RemTech Treats Hydrocarbons for Industrial Petroleum Effluent

MetaFLO's study reveals unmatched cost savings, productivity gains, and environmental benefits for treating hydrocarbons on an effluent.

CASE STUDY



PROJECT

REMTECH – INDUSTRIAL PETROLEUM EFFLUENT TREATMENT

Curitiba, PR - Brazil



Challenge

Effluents from industrial operations, specifically petroleum processes, often contain high concentrations of hydrocarbons, which pose significant environmental and compliance challenges. Traditional treatments for available hydrocarbons are not sufficient for the effluent. An advanced treatment was necessary to ensure compliance with COPAM-08/22 regulatory limits and to achieve sustainable water management.

Solution

This study focused on treating 78 mg/L of oil and grease content available on the water effluent using 0.05% RemTech, MetaFLO's advanced solution for remediation. The biopolymer is environmentally friendly, allows water reuse, doesn't generate toxic byproducts and can significantly reduce levels of residual hydrocarbons.

Outcome

✓ REGULATORY COMPLIANCE

With RemTech application to the effluent, the concentration achieved less than 15 mg/L. The treated effluent met environmental standards, supporting the petroleum company's goals for sustainable water reuse and safe discharge into the environment.

✓ COST-EFFECTIVE SOLUTION

By reducing the need for additional alkalizing agents, RemTech streamlined the treatment process, offering an additional solution to the traditional methods and environmentally friendly approach to hydrocarbons remediation.





Figure 1: Before (left) and after (right) RemTech

