

OIL REFINERY

Plant Application Successful Experience

An oil refinery located in South America with a 350 m³/h wastewater treatment plant.

CURRENT TREATMENT

- Does not achieve the environmental regulations standard from the Brazilian environmental agencies;
- High levels of oil, grease, COD and H₂S in the treated wastewater;
- High cost in the wastewater treatment using alum salts, polymers and a huge quantity of lime;
- · High energy consumption in the biological treatment;
- · Very low efficiency process using alum salt, polymer and lime;
- · Generates a huge amount of sludge;

Acqua POL REDUCES TREATMENT COST

- Acquapol is a metal-free vegetable organic coagulant/flocculant with the special characteristic to remove oil and grease;
- Reduction of COD and H₂S;
- No need to use polymer and lime;
- Very low cost of the treatment compared to the current treatment process;
- This "green technology" will highlight the company's image due to its attention and care for the environment, positioning the company above the competition;

- High ecotoxicity and toxicity in the current treatment process;
- Harmful sludge;
- Sludge with low degradability;
- The treated wastewater still contains high levels of alum salts;
- The large amounts of alum salts and polymers will be accumulated in the surrounding ecosystem, affecting negatively wildlife and the ecosystem.
- High performance of the Acquapol in the wastewater treatment process;
- · Reduces ten times the sludge volume;
- Does not dispose any alum salts in the surrounding ecosystem, protecting wildlife and the ecosystem;
- · Non-harmful sludge;
- No need to use alkalinizing agents during treatment process;
- · Easy handling.



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