

Success case in chemical industry



Specialized industry
in chlorine chemistry.



Province of Tarragona
(Catalonia), Spain.



3,000 m³ / day of industrial
wastewater to be purified
from the production
of fertilizers, insecticides
and pesticides.



3 months

Customer need

- Purification of industrial wastewater as a product of the manufacture of fertilizers, insecticides and pesticides.
- Elimination of high load of organochlorine contaminants present in wastewater, especially Lindane (> 7900 ng / l), highly toxic and very difficult to eliminate.
- Reduce the cost of the conventional method of water purification that costs more than € 150 / m³.

The solution

AMAPEX solution allows reducing the Lindane content of purified water, with a significant cost reduction compared to traditional wastewater treatment systems.

The solution is to treat the contaminated water by passing it through retention tanks, applying a solution that contains a mixture of bacteria and nutrients, specifically designed for each client.

The bacteria are activated very quickly and efficiently, metabolizing especially the

organochlorine compounds present in the water.

For the multiplication of bacteria, an intelligent unit has been designed that, reading the parameters of the waters to be treated, activates the biological mixture to provide it with optimized activity.

Results

- More than 95% reduction in Lindane.
- 70% cost savings compared to traditional industrial wastewater treatment systems.

Applications

This AMAPEX solution is specific for the treatment of wastewater in the chemical industry, which can also be successfully applied in the plastics, styrene industry and, in general, in all industries derived from the petrochemical sector with high production of effluent wastewater chlorinated.

