Leachate Treatment
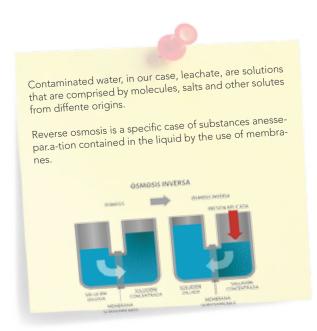## New system for purifying contaminated water

Leachate is the most polluted waste and complicated to deal in the landfills waters. **For treatment, Dimasa Grupo uses reverse osmosis membranes provided by Defra Water** that are able to retain this type of pollutant.

- **Easy maintenance** because it requires no periodic analytical controls.

- **Quick installation and starting.**

- Our systems can treat **low, medium and high load leachate, retaining all salts and contaminants** producing safe water for other uses.

- **Avoid rapid fouling and reduces the risk of clogging of the membranes** and constant washing cycles which decrease the maintenance cost.

- **Longer life of the membrane module.**

- **Save time, energy and water** between washes**.**

- Mobile units for **easy transport and assemble.**

Contaminated water, in our case, leachate, are solutions that are comprised by molecules, salts and other solutes from diffente origins.

Reverse osmosis is a specific case of substances anesse-par.a-tion contained in the liquid by the use of membranes.

ÓSMOSIS INVERSA

Dimasa Grupo & Defra Water: the union between manufacturing and engineering
We manufacture all equipment designed directly by our engineering department.

Leachate treatment plant

The membranes used in modules of Defra Water have allowed **the use of the technique of reverse osmosis water treatment in the field of leachate.**

Derived from this latent market need, Defra Waters has created **a dynamic that reduces fluid build up on the membrane and extraordinarily facilitates cleaning.**

Dimasa Grupo exclusive distributor in Spain and Latin America

DEFRA Water

Why extract and treat leachate from landfills?

• Increased volume of landfill to be fillled with more solidswaste.

• Increased biogas production.

• Promotes waste compactation in the landfill and prevents instability.

The DFCT module is the core of the treatment plants. The power module is performed through a dual channel.

The superposition of the two supply channels is specifically designed to combine the advantages of the open channel technology and this increased the density of membrane area per module..

The current through the membrane flow evenly through two feed channels under an angle of 45 °. This results **in high turbulence and shear forces that reduce the membrane fouling.**

DFCT dual channel module 45 degrees

Views Module

Succes cases

Water high organic load

Polluted waters

Landfill leachate

Miner Industry