

# Water treatment systems

Saving on your discharge costs?



**Verhoeve Mileiu & Water takes care of this savings!**

We design, build, rent and sell water treatment systems for biological, physical or chemical treatment of your water stream.

Verhoeve Environment & Water takes care on savings on discharge costs. These costs are often based on a few parameters. Based on the concentration in the effluent and the total process we check the possibility of creating savings!



#### Verhoeve Milieu & Water

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Our specialties:

#### Biological

Let nature do the job. For several purposes we design & build wetlands, the most sustainable solution for water treatment. A wetland is a natural landscape which can handle the treatment of waste water by its specific design. This solution can be obtained in case of reusing water at a golfcourse or playyard. For treatment of hydrocarbons we often use biological water systems.

#### Physical

Out of our own experience as cleaner of soil & water we do have a strong vision of handling water streams in diverse markets. Anti algae, desalination, deferrization and disinfection are some examples. Many of the water challenges can be handled with physical techniques. We are equipped with a large and flexible machinery.

#### Chemical

In the event of less result for the biological or physical solution there is always the chemical way! Frequently we use ozone (O<sub>3</sub>) or disinfectants as an additional step. Traditionally Ozone in water treatment is used as an dissolved substitute. Verhoeve Environment & Water introduced Nanozox® a few years ago. This system creates ozone on a nanoscale surrounded with hydrogenperoxide.

With this application a unique process occurs with remarkable properties. Ozone as well as hydrogenperoxide are capable to oxidise contaminations

into harmless products. By the small dimensions of the ozonbubbles a negative charge is created into a very stable compound with high reactivity in the water.

Application of these techniques with ozone or disinfectants is suitable in:

- Anti algae in water streams of zoo's;
- Disinfection of water stream of hospitals;
- Decolourization of process water;
- Treatment of COD's on water treatment systems;
- Pesticides, pharmaceuticals, endocrine disrupters;
- Legionella control at cooling towers.

#### Rental and service

Verhoeve has its own break-down service which is available 24 hours a day for recovery on your system.

We own the next machinery:

- Sand filtration and active carbon;
- Ion exchangers;
- Ultra Filtration (UF);
- Reversed Osmoses (RO);
- U.V.;
- Ozone units;
- Aerator units;
- Oil water separators/skimers;
- Biological rotor systems.