



Veolia MPPE Technology

Synthexim Calais -France

Specialty Chemicals and Pharmaceutical raw material producer

- Treatment of Waste- and Groundwater
- Operational since 2004



Challenge

- Unpredictable (toxic) inlet composition
- Fluctuating compositions
- DRIRE regulations including BoD < 300 ppm for discharge to sea
- Limited space to combine MPPE with 2 biorotors



The MPPE process

MPPE stands for Macro Porous Polymer Extraction. Polymer beads contain a specific immobilized extraction liquid. Hydrocarbon contaminated water is passed through a column packed with MPPE particles. The hydrocarbons are extracted from the water at any designed efficiency up to 99.999%. The MPPE particles can simply be regenerated by heating with steam. The removed hydrocarbons are recovered as an almost 100% pure product. No other waste stream is created. No chemicals requires, no off gasses produced.

Performance BOD: 2300 to < 300

MPPE removes:

- Aromatics (50 ppm)
- Chloroform/Dichloromethane (1300 ppm)
- AOX (360 ppm)

Biorotors removes:

- Remaining AOX
- Remaining (non toxic) BOD/IOD

Delivery of MPPE unit with two biorotors with a capacity of 6 m³/h

MPP & TiPSS Technologies

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