



## Veolia MPPE Technology

## LMBV Schwarze Pumpe - DE

### Groundwater remediation

- Former brown coal conversion site
- Five MPPE units
- Operational since 2002



### Challenge

- 2 years of intensive testing
- Reinfiltration of purified water
- Ideal to enhance insitu biodegradation
- Enhanced DNAPL & LNAPL removal with surfactant



### 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

#### MPPE (5x)removes:

- |                |        |            |
|----------------|--------|------------|
| • BTEX         | 233,00 | µg/l (ppb) |
| • Naphtalene   | 500    | µg/l (ppb) |
| • PAHs         | 153    | µg/l (ppb) |
| • >99% removal |        |            |

**MPPE units capacity 4x 20 m3/h & 1x 3 m3/h**

#### MPP & TiPSS Technologies

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