



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



Performance

MPPE (5x)removes:

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

MPPE unit capacity 20 m3/h (5x)

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.

MPP & TiPSS Technologies

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