



## PARTIALLY MOBILE FLOOD PROTECTION SYSTEM RW-MHWS

Reliable, partially mobile flood protection system for diverting surface water and sewage during heavy rainfall

### APPLICATION

- Areas at a risk of flooding
- Flood plains
- Sewers
- Wastewater treatment plants
- Stormwater overflow tanks/reservoirs

### PRODUCT DESCRIPTION

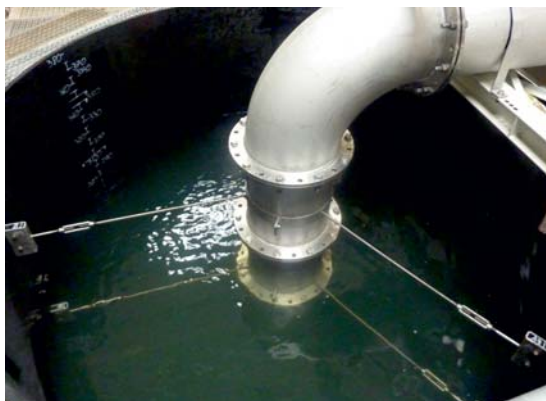
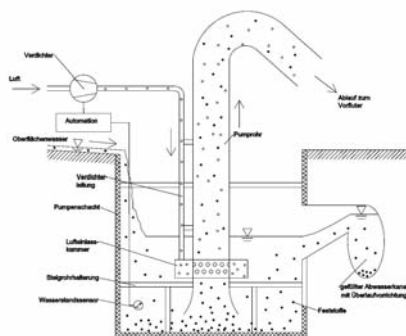
In collaboration with the Technical University Dresden, wks Technik GmbH developed this partially mobile flood protection system, which works reliably, even with high solid-loaded run-off. The tried and tested Mammoth or Air-Lift pump has a particularly large riser diameter which avoids wear and blockages. The driving force is from air blown into the pipe, which displaces the water and carries it upwards. The necessary air can be provided by a fixed or mobile compressor.

This flood protection system is a modular solution adaptable to specific conditions.

The development was funded by the German Federal Ministry for Economic Affairs and Energy (Bundesministerium für Wirtschaft und Energie).

### DESIGN FEATURES

- Four components operating together as a system
  1. Collection shaft
  2. Riser with special air inlet chamber
  3. Mobile compressor with diesel unit or electrical connection
  4. Automation unit with water level sensor
- Flow rates from 500 to 3,500 m<sup>3</sup>/h
- Pipes made of stainless steel
- Free pipe cross-section



### ADVANTAGES

- Maximum operating reliability, owing to there being no moving parts in the riser which would otherwise result in wearing or blockages
- Modular, customisable for specific conditions and requirements
- Long service life
- Ready for use
- No ATEX approval necessary, as there is no ignition source present
- Easy to operate
- Extended-use period
- Low-maintenance

