

# PASSION for PROGRESS

## Your contact

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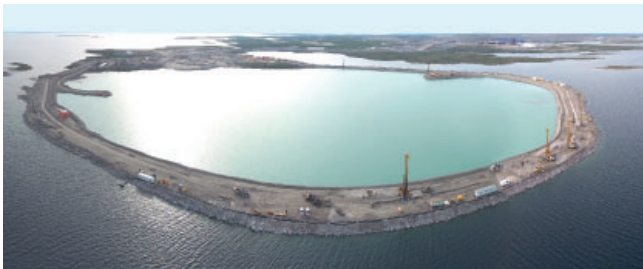
Curtain grouting, Marckolsheim (France)



Double phase Cut-off Wall, Arab Potash, Dike A (Jordan)



Single phase Cut-off Wall, Site C (Canada)



Jet Grouting, Diavik, Dike A21 (Canada)



## Global Service Provider for Dikes and Levees

Experience for more than 35 years



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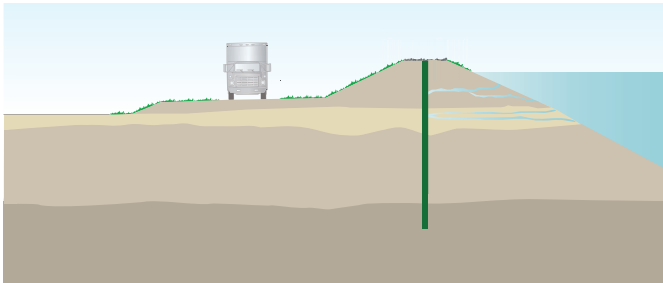
**BAUER SPEZIALTIEFBAU**

## Current situation

Dikes and levee systems are a vital part of modern flood risk management.

Many of our cities would be uninhabitable without them and many industrial areas are counting on the protection provided by the surrounding man-made dikes and levee systems.

The maintenance of these structures in both normal and flood conditions is a major task for flood management authorities (public and private). Existing structures need to be maintained, improved or rehabilitated and new ones need to be built.



Cut-off preventing internal erosion in the embankment and/or foundation

Seepage, piping, erosion, liquefaction and overtopping through floods or waves typically lead to considerable damage to the system. With Cut-off walls this will be prevented or significantly mitigated.

## Selection criteria



Cutter-Soil-Mixing, Herbert Hoover Dike (USA)

The main factors affecting the selection of a Cut-off:

- Depth of the pervious strata
- Working area and project logistic limitations
- Geological characteristics of the in-situ materials to be excavated and/or treated including treatment for potential liquefaction.
- Man-made obstructions
- Existing structures to undertreat and to connect with the Cut-off wall



Mixed-in-Place, Aramon (France)

## Our mission

BAUER Spezialtiefbau GmbH, together with its subsidiaries has over 35 years of experience in designing and executing cut-off and soil consolidations for both new and rehabilitation project for dikes, levees, polder and dams systems. Our core competencies include different types of technologies or a combination of techniques using various technologies, for example:

- Mixed-in-Place (MIP)
- Deep Soil Mixing (DSM) with single and multiple augers
- Cutter-Soil-Mixing (CSM)
- Single-Phase Cut-off Wall
- Double-Phase Cut-off Wall
- Soil Bentonite and Soil Cement Bentonite Slurry Wall (or slurry trench)
- Secant Pile Wall (SPW)
- Curtain Grouting
- Jet Grouting

## The main tasks

- Assessment of technical documents including technical risk analysis and elaboration of optimized alternative proposals (Value Engineering).
- Partnering for Technical assistance requested by Designers and Consultants during the Feasibility study, design and/or Tender Phase.
- Our goal is to provide the best solution for each individual project.