



# Bayerisches Staatsministerium für Umwelt und Gesundheit



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55\_2a-U4442.2-2011/6-27

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München  
12.04.2013

## **Sylvensteinspeicher / Lenggries, Ertüchtigung des Dammbauwerkes BA 02 Herstellung einer Dichtwand im Schlitzwandverfahren Construction of a cut-off wall excavated by trench cutter and diaphragm wall grab**

Dear Sir or Madam,

Following the successful completion of BAUER's part of the project, we would like to express our perfect satisfaction with the means and methods in which BAUER has performed on the project.

BAUER Spezialtiefbau GmbH, located at Bauer-Straße 1, 86522 Schrobenhausen, Germany has been engaged by the Wasserwirtschaftsamt Weilheim (responsible state office for Water Management under the Bavarian State Ministry of the Environment and Public Health) for the construction of a cut-off wall within the existing dam body of the Sylvenstein Dam.

The Cut-off wall was built into a dam under operation for the first time. Furthermore the cut-off wall represents the deepest cut-off wall in Germany.

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**Details of the Contract:**

Construction period

(physical works): April 2012 to September 2012

Location: Lenggries, Freistaat Bayern/Germany

General Contractor: BAUER Spezialtiefbau GmbH

Client: Wasserwirtschaftsamt Weilheim  
(responsible state office for Water  
Management under the Bavarian State  
Ministry of the Environment and Public  
Health)

**Scope of works:**

- Design of guide wall
- Layout of the bentonite handling system for the construction of the cut-off wall
- Plastic concrete mix design
- Preparation of construction methods and layouts
- Mobilisation of required resources
- Site setup
- Execution of additional ground investigations of the dam body
- Construction of diaphragm wall excavated by trench cutter and diaphragm walling grab
- Connection to a vertical concrete element
- Continuously embedded cut-off wall into bedrock by trench cutter
- Boulder and obstacle removal

**Details of works executed by Bauer:**

**Geological condition:**

Dam core material, underlaid by alluvial deposits consisting of silt/sand/gravel layers with some cobbles, underlaid by dolomitic bedrock with UCS up to 100 MPa.



**Cut-off wall:**

Numbers of panels: 60

Scope of work: 10,000 m<sup>2</sup> / thickness 1.00m

Maximum depth: 70 m

Concrete: Plastic Concrete; site-made, with special requirements, concreting with tremie method

Equipment: one BAUER trench cutter MC 128 and one BAUER grab system MC 64

Additional equipment: service crane / chiseling unit, bentonite mixing and mud treatment plants, silos and tanks for bentonite storage and service equipment.



Bauer carried out the works in a very professional way, in particular the construction of the cut-off wall.

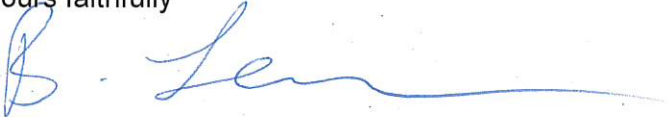
Concerning technical issues or questions related to the particular works during this exceptionally challenging project, BAUER was seeking for and suggesting solutions for any kind of problem in close collaboration with the client.

We highly acknowledge the BAUER team which was prepared and which executed the works in a very professional way. The general quality management and its control along the execution, together with the detailed method statement secured the highest standards of quality and accuracy for the final product of the cut-off wall.

Bauer's professional approach to Health, Safety and Environment (HSE) was excellent.

Bauer executed the project within the schedule as contracted.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'B. Lederer', written over a horizontal line.

Lederer  
Bauoberrat