

Subsoil investigation and structural inspection

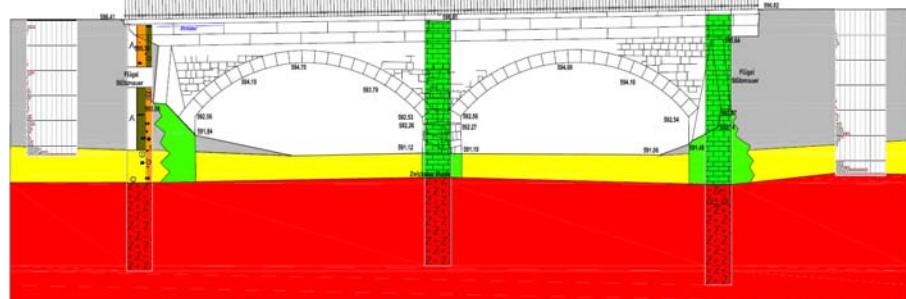
Bridge reconstruction within the reconstruction of the road S 276 in Schönheide, area Wilzschhaus

C&E · Consulting und
Engineering GmbH

Objective:	Subsoil investigation and structural inspection
Location:	Schönheide
Client:	Road authority Zwickau
Beneficiary:	Road authority Zwickau
Jahr:	2007 - 2008
Services provided:	

Subsoil investigation:

- Technical assistance for the execution of subsoil investigation (geological survey)
 - Geological documentation and analysis of subsoil conditions
 - Analysis of hydrogeological conditions
 - Analysis of relevant waters on concrete aggressiveness and steel corrosion
 - Determination of soil mechanical characteristic values
 - Evaluation and classification of back-filling material



Subsoil investigation and structural inspection

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**C&E · Consulting und
Engineering GmbH**

D-09117 Chemnitz • Jagdschänkenstraße 52

Tel.: +49 (0) 371 881 22 39 • Fax: +49 (0) 371 881 45 89

E-mail: info@cue-chemnitz.de

Internet: www.cue-chemnitz.de

Structural inspection:

- 3 core drillings in pillars and abutment of bridge construction
- 4 core drillings in the wing areas of bridge construction
- Implementation of dynamic probing
- Laboratory determination of density and uniaxial compressive strength of the concrete samples taken
- Implementation of asphalt analysis
- Mortar analysis
- Photographic documentation of cores

Investigation results:

- Presentation of the subsoil and structural situation
- Derivation of parameters of the foundation technique
- Description of the settlement behaviours
- Derivation of values for the payload calculation

