

The Multi Service Group.



Containment 23.5 Siebenhirten

Vienna, Austria



Contract Value (net):

6 Mio EURO

Construction Period:

07/2002 – 11/2003

Client:

City of Vienna, Municipal
Department MA 45

Services:

Vibrated thin slurry wall

Secant bored pile wall

Blast pipe wall

Contact:

Bilfinger Berger Bauges. m. b. H.

Civil Engineering Division

Diefenbachgasse 5

A-1150 Vienna

Tel. +43 / 89937 - 0

Fax +43 / 89937 - 222

info@bilfingerberger.at

www.bilfingerberger.at

During the 19th Century this 28 ha landfill was occupied by a chemical factory which among other things manufactured sulfuric acid. Ongoing analyses of the groundwater in the drainage area from the former chemical factory revealed contamination in particular by sulfates, hydrocarbons and cyanide compounds.

The contaminated area has been contained primarily by two structures, a slurry wall which partially encloses the site and a rubble drain. The flow of groundwater is held back by the containment wall, while the filter gallery intercepts the contamination. If the limits for drainage water are exceeded, the seepage water is temporarily collected in tanks before being disposed of.

Three methods were used to construct the containment wall which combines a vibrated thin slurry wall, a secant bored pile wall and a blast pipe wall. The containment wall extends for a length of 2,000 m and reaches down to a depth of up to 15 m.

Quantities:

14,000 m² cut-off wall (15 m deep)

Data Monitoring