

## Planning and supervision of drilling and installation of shallow and deep piezometers and remediation wells in Düsseldorf / Hilden, Germany

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<b>Project Location:</b>	Düsseldorf / Hilden, Germany
<b>Client(s):</b>	County of Mettmann
<b>Date Completed:</b>	1995 - 2010
<b>Project Budget:</b>	Approx. € 3,000,000

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Installation of 2"-piezometer and 24"-remediation well

### Project Summary

In the project area, five major sources for chlorinated hydrocarbons (CH) are present; two steelworks, two chemical plants, and one waste disposal site. In addition there are four smaller plant sites. During three project phases, 85 piezometers were installed to a depth of up to 90 m within unconsolidated and fractured rock. The client opted for a pump and treat remediation scheme catching 4 plumes with twelve 24" remediation wells with increasing screen depths arranged in 4 nests.

### Services Provided

- \* Planning, drilling, and testing of 85 2"-piezometers.
- \* Preparation of RFPs
- \* Selection of successful drilling companies.
- \* Supervision of drilling and installation.
- \* Conduct and interpretation of geological logging
- \* Planning, supervision and interpretation of borehole geophysics
- \* Planning, installation and testing of twelve 24"-remediation wells up to 35 m depth.
- \* Sampling and chemical analyses of piezometer water and interpretation of results

### Deliverables or Results

- \* Piezometers and remediation wells were handed over to County of Mettmann together with test results, proper documentation, and recommendations.