

New construction of the postal delivery base Zell am See - geological-geotechnical underground investigation

Client:

Österr. Post AG

Country:

Austria

Duration:

November- December 2022

Services:

Geological, hydrogeological and geotechnical investigation

Expert statement, consulting to the client

Geotechnical consulting regarding foundation

Project objectives

In a newly developed commercial area on the former airfield site in Zell am See, a new delivery base of the Austrian Post AG is to be built on more than 2,000 m².

Project description

The subsoil in the Zell basin consists mainly of very fine-grained, peaty, water-saturated and thus very soft soils. For a precise exploration of the subsoil, trial pits and cone penetration tests (CPT) were carried out to a depth of up to 20 m below the ground surface and evaluated. Based on the results of the investigation, the existing soils were classified, geotechnically assessed and a foundation proposal as well as a proposal for supporting the excavation pits and dewatering of the construction pit were developed.

Project data

- Total plot area: approx. 10,000 m²
- Total usable space: approx. 2,100 m²
- Exploration depth: up to 20 m

Project specifics

The project is being implemented in a highly sensitive area from a nature conservation point of view, which is why replacement habitats had to be created and amphibians relocated.

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© iC/ Soft lake-clay during excavation of the trial pits



© Österr. Post AG/ 3-D visualisation south view