

South-West Red Line of the New Greater Paris Linear Infrastructures 2013 - 2020

Transport and infrastructure Urban public transport

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FRANCE - Paris Client Société du Grand Paris

Porject manager Setec / Ingerop

Project owner Société du Grand Paris

Miscellaneous

Tunnel: 12.5 km, 8 stations, 12 related structures



Description of the project

TERRASOL is part of the project management team of works package 3 of Greater Paris line 15 (between Pont de Sèvres and Villejuif). This consortium, with Setec TPI as lead company, is responsible for 8 stations and 12 ancillary structures within 12.5 km of tunnel.

Key features

- Synthesis of geotechnical data, geological longitudinal profile
- Geotechnical design studies
- Works monitoring for the exploratory shaft

Description of the mission

The studies began in September 2013. The consortium carried out the detailed preliminary design studies in two successive phases of 7 and 6 months. TERRASOL is responsible for all the geotechnical aspects of the project: synthesis of geotechnical parameters, production of the longitudinal profile, risk management relating to quarries, soil-structure interaction calculations for the stations, ancillary structures and the tunnel. This phase of the studies has just been completed. The detailed design phase was started in December 2014 with a design report due in June 2015 and the issuance of tender documents in summer 2015.

In parallel, the first Greater Paris works were started in September 2014 for the construction of an exploratory shaft and gallery at the location of the future Arcueil - Cachan station. The purpose of these works is to test jet-grouting in quarry backfill and the Ypresian layer (including its sandy facies); it will enable full-scale analysis of the behaviour of the plastic clay (deformation measurements, rigid plate loading tests, back-analyses, etc).

TERRASOL is taking an active part in monitoring these works, which will produce many types of critical information for the project as a whole.

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