

Examination of groundwater maintenance method accompanied with construction of underground structures. (Part 2)

[Point]

Constructions of linearly –shaped structures, such as large-sized trench roads may cause groundwater level change, which induces well drying and subsidence, assessment of underground structure construction effect on groundwater environment and its measure are important issues. Regarding groundwater environment assessment method and its measure method, some methods have already been proposed and practiced, but these practicalities haven't been verified, yet. In this research, we researched and organized existing groundwater environment assessment methods and countermeasure constructions, as well asexamined applicability of groundwater analysis for various ground conditions.

As a result, we clarified the effect of ground and structure conditions on the result of groundwater analysis, and some points to keep in mind, when we apply the groundwater analysis.

Keyword : groundwater environment assessment, underground structure, groundwater analysis, hydraulic conductivity