

G018-P001

Time: May 27 17:15-18:45

Groundwater evolution process in the sedimentary rocks at Mizunami Underground Research Laboratory (MIU) construction site

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Hydrogeochemical investigations of deep groundwater at the depths of 15 - 180 m below ground level were carried out at Mizunami Underground Research Laboratory (MIU) construction site, Gifu Japan. The groundwater chemistry observed are Si - Na - Ca - SO₄ - HCO₃ type at shallow part of sedimentary rock and Na - Cl type at the deeper part of sedimentary rocks and basement granite. Groundwater evolution processes are possibly long-term water-rock interaction in shallow part and mixing between low-salinity and high-salinity groundwater at deeper part of sedimentary rock and upper part of granite.