Japan Geoscience Union Meeting 2013

(May 19-24 2013 at Makuhari, Chiba, Japan)

©2013. Japan Geoscience Union. All Rights Reserved.

SCG60-P04

Room:Convention Hall



Time:May 21 18:15-19:30

## Hydrogeochemical investigation of colloid and trace elements by using quality-controlled sample at Mizunami Underground

Teruki Iwatsuki1\*, Ohmori Kazuaki1, Shingu Shinya1

<sup>1</sup>Japan Atomic Energy Agency

Colloid particles and their relationship with REE in deep groundwater were identified by ultrafiltration method at Mizunami underground research laboratory. Colloid particle consists of iron hydroxide, organics, carbonates and silicate minerals such as clay mineral. REE mainly involved the colloid particle with size of 0.2 micron meter -50 kDa, smaller than 10 kDa.

Keywords: Mizunami Underground Research Laboratory, Deep groundwater, Colloid, REE