

JAGH' s activities evaluating the effect of 2016 Kumamoto Earthquake to the local groundwater resources

*Jun Shimada¹, Takahiro Hosono³, Kei Nakagawa²

1. Emeritus professor, Kumamoto University, 2. Dept. of Environmental Sciences, Nagasaki Univ., 3. Priority Org., Kumamoto Univ.

Kumamoto area is so called 'Groundwater city' because its tap water for one million residents is fully supported by groundwater. Over 100 monitoring wells have already been installed to cover the area for the sustainable use of the groundwater resources. As the Kumamoto earthquake 2016 had damaged the facilities of Kumamoto city water works and some local spring sites, local residents have been very serious about the loss of their major water resources. Kumamoto Univ. has established the new project 'Evaluation Project of the effect of Kumamoto Earthquake 2016 to the groundwater environment' to reveal the change of groundwater environment after the earthquake by using groundwater levels, water qualities, groundwater temperatures, geochemical tracers in the groundwater with the help of co-operational team of JAGH. We also apply the groundwater simulation to evaluate the effect of earthquake to the local groundwater flow system and those results has been shared with Kumamoto Groundwater foundation and Suntory Co. as the supporting company of the project. We intend to have the special session on our project' s preliminary results with the invited speakers from earth quake research specialists as A-HW24 on JpGU 2018.

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