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Evaluation of artificial effect to the regional groundwater flow system in the southern Fossa Magna area

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In order to evaluate the artificial effect to the regional groundwater, the concentration and source of minor and major elements in the groundwater, spring as well as river water were investigated based on the geological and geochemical features in the southern Fossa Magna area. Most elements except vanadium, phosphorus and uranium, which do not give sensitive characteristics in igneous rocks also showed obscure characteristics in groundwater, spring and river water. However, the geological source classification of some major elements in groundwater which reflects the geology was successfully achieved using differences in the distribution area in Fossa Magna area. Thus, it is possible to estimate the excess concentration of some major elements in the groundwater in this study.

Keywords: groundwater, major elements, minor elements, Fossa Magna