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Study on Preparation methods for Validation data of Groundwater Flow System in a Sedimentary Rock Area

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In the safety assessment for a geological disposal of radioactive waste, it is important to establish validation methods for regional groundwater flow system more than 300m at depth to estimate radionuclide migration to human environment through groundwater flow system. The study discussed application of data and assessment methods for model validation based on multiple indicators such as hydrology, groundwater chemistry, temperature and age of groundwater in case of the Hamasato in Horonobe area where a lot of in-situ data about groundwater were measured.

This results show that multiple indicators such as hydrology, groundwater chemistry, temperature and age of groundwater are applicable to validate the groundwater flow property and groundwater flow boundary.