

On the water quality of groundwater in Takada Plain, Niigata Prefecture Japan(2nd)

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We have investigated the water quality and stable isotope ratio of hydrogen and oxygen in Takada plain, Niigata Prefecture. Water quality of G4 aquifer is Na-HCO₃ type, and dD values of G4 and G4+G3 aquifers are -62.7 to -51.2‰, d18O values -10.43 to -8.92‰. In the G3 aquifer, dD values are -64.5 to -48.8‰, d18O values -10.70 to -9.21‰, dD values of G2 and G2+G3 aquifers are -60.1 to -48.9‰, 18O values -10.37 to -8.86‰, dD values of G1 aquifer are -56.8 to -48.7‰, d18O values -9.67 to -8.28‰. In these values of G4, G3 and G2 aquifers, there is an obvious difference between the center of the plain and the surrounding areas. It is considered that the difference reflects the recharge area of groundwater.