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Geology of deep all core drilling in coastal area, Horonobe, Hokkaido

Ikuko Hagiwara², Atsunao Marui¹, Isao Machida¹, Reo Ikawa¹, Masaru Koshigai^{1*},
Takuya Yoshizawa¹, Seiji Nishizaki¹, Narimitsu Ito¹, Katsuji Sasaki², Haruka Kondo²,
Masamitsu Yoshioka²

¹GSJ, AIST, ²Sunco Consultants Co., Ltd.

The deep groundwater in coastal area has been attracted considerable attention in the development of underground space and water resources. In the coastal area, properties of groundwater are influenced by various factors such as sea level changes, it is the important theme to make clear the formation process of the property of the groundwater for the understanding the geohydrological long-term stability. Concerning this theme, we are carrying out the deep drilling survey and the laboratory analysis of the groundwater in Horonobe, Hokkaido. The surveying site locates in the dune that develops into the coast of the Teshio plain. From the drilled core (400 meters deep), it is cleared that geology are composed alluvium (about 85m in thickness) and the Sarabetsu formation (Pliocene to lower Pleistocene) in which the cycle of gravel to mud repeats at a 30 to 50m interval. In this presentation, we report the result of the geological laboratory analysis (microfossil, tephra, and CNS elemental analysis).

Keywords: Coastal area, Deep all core drilling, Sdimentary facies analysis, Micro fossil analysis, Tephra analysis, CNS elemental analysis