

Film-like schwertmannite and related minerals formed by bacterial action in Nishikinauma Hokkaido and Gunma iron mine.

Takeo Nakamura [1], Junji Akai [2]

[1] Geo and Biosphere Sci., Niigata Univ, [2] Departm. Geol. Fac. Sci. Niigata Univ.

At Nishikinauma Hokkaido and Gunma iron mine, Springwater flows down at present and oil-like thin surface film showing rainbow-like colors on stagnant water ponds besides the small river. The film contained Fe and S, and occasional Al and P. The film was clarified schwertmannite (J.M. Bigham et al. 1994). They might be formed due to the micro-environmental charged by bacterial activity.