

Role of groundwater seepage in maintaining low flows in a concrete-lined urban river - A case study in Nomi-gawa river, Ohta Ward, Tokyo, Japan -

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Role of groundwater seepage in maintaining low flows in a concrete-lined urban river was studied in Nomi-gawa river, Ohta Ward, Tokyo, Japan. Despite concrete-lining side walls and river bed, groundwater seeps out through gaps of concrete walls and discharge pipes to make a contribution for the formation of river flows. On the basis of electric conductivity, it was made clear that this kind of groundwater seepage accounts for in the range between 10% (20 Jan., 2018) and 35% (26 Oct., 2015) of low flows in Nomi-gawa river.

Keywords: Tokyo metropolitan area, concrete-lined urban river, maintenance of low river flow, groundwater seepage