

Policy suggestions for geochemical responses to rainfall events of urban runoff

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Urban runoff surpassed its self-cleansing capacity, leading to a decline in water quality characterized by black, odorous water in the urban river network. The lack of coordinated management between sluices and dams exacerbated the situation. Employing geochemical techniques, water samples from various rainy season events in the central urban area of Tianjin's Haihe river basin were collected, alongside analysis of rainwater well samples. Coupled with climate and topographic data, numerical simulations were conducted to devise integrated control strategies for sluices and dams, along with environmental policy recommendations.