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Case study: the crude MCHM chemical spill investigation and recovery in West Virginia USA

A. J. Whelton,* L. McMillan, C. L.-R. Novy, K. D. White and X. Huang

Several recent chemical spills have caused large-scale drinking water contamination incidents in Canada and the USA.

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Maximizing Coulombic recovery and solids reduction from primary sludge by controlling retention time and pH in a flat-plate microbial electrolysis cell

Dongwon Ki,* Prathap Parameswaran, Sudeep C. Popat, Bruce E. Rittmann and César I. Torres

Control of hydraulic retention time and pH of the anode chamber in a flat-plate microbial electrolysis cell can improve Coulombic recovery and sludge stabilization.

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Microbial distribution and variation in produced water from separators to storage tanks of shale gas wells in Sichuan Basin, China

Yimeng Zhang, Zhisheng Yu,* Hongxun Zhang and Ian P. Thompson

Production facilities harbor diverse microorganisms including sulfidogenic bacteria, acid producers and fermenters, showing the potential need for effective microbial control during the production of shale gas.

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Water treatment process evaluation of wildfire-affected sediment leachates

Amanda K. Hohner,* Leigh G. Terry, Eli B. Townsend, R. Scott Summers and Fernando L. Rosario-Ortiz*

Re-suspension of post-fire sediment deposits challenge conventional water treatment processes during runoff events, impacting DBP formation. Treatment thresholds for a range of unit processes are established.