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In Situ Uranium Stabilization Through Polyphosphate Remediation

By D.M. Wellman, E.M. Pierce, V.R. Vermeul, S.V. Mattigod, E.L. Richards

Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, In Situ Uranium Stabilization Through Polyphosphate Remediation, D.M. Wellman, E.M. Pierce, V.R. Vermeul, S.V. Mattigod, E.L. Richards, The Hanford Site, in south-eastern Washington State, is a former nuclear defence production facility. A groundwater plume containing uranium, originating from a combination of purposeful discharges of wastewater to cribs, trenches, and ponds, along with some accidental leaks and spills with nuclear fuel fabrication activities, has persisted beneath the Hanford Site 300 Area for many years. The uranium plume is just upstream of the city of Richland municipal water supply intake on the Columbia River. Despite the cessation of uranium releases and the removal of shallow vadose zone source materials, the remedial action objective to lower the concentration of groundwater uranium to the U.S. Environmental Protection Agency (EPA) maximum contaminant level (MCL) concentration of 30 g/L has not been achieved within the anticipated 10-year time period. Despite several decades of studies, effective uranium cleanup strategies remain elusive for contamination in deep subsurface settings that prevail at a number of U.S. Department of Energy (DOE) sites in the western United States. Numerous strategies have been proposed including iron barriers, soluble reductive agents, microbial stabilization...

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