

Restoration at Cameco's US ISR Operations

Brent Berg – President, Cameco Resources

Cameco Resources strives to apply best practicable technology to improve the quality, rate and efficiency of groundwater restoration. Our U.S. operations measure performance to the restoration schedule, progress towards cleaning affected groundwater, and ensuring water is circulated efficiently to achieve restoration in the least number of pore volumes.

In recent years, restoration research is being undertaken to improve the efficiency of the restoration process, and to better understand down-gradient mobility of dissolved uranium and other chemical constituents as a function of concentration. Research is aimed at augmenting processes to minimize the consumptive use of groundwater during restoration and improve post-restoration geochemical stability. The research is important, because the concentrations of some chemical constituents can be higher in the restored zone after restoration, as compared to pre-mining baseline values. Establishing credible maximum concentrations for the Nuclear Regulatory Commission's Alternate Concentration Limit requirements is required to shorten restoration treatment periods while demonstrating there is no undue environmental risk.

This presentation will provide an overview of restoration progress to date, and summarize research currently underway.