**Commercial Process Considerations for Ligand Recovery Due to Ligand Bleed from Media During Sorption of REEs from Geothermal Waters**

Document: A description of an in situ experiment to confirm that ligand bleed from a sorptive media can be contained

The purpose of this experiment was to combine a series of prior experiments into an in situ procedure to capture ligand bleed during column operation designed to mimic future commercial conditions.

Effluent from a prior REE media loading experiment was collected. 10L of the effluent containing 4.5ppm ligand bleed was pumped at 4 ml/min (0.84 minute contact time) over 2 g of media support material at 90oC. No adjustments in pH were performed. 10 approximately equal aliquots were collected over the 10L. Ligand was not detected in any of the samples.

In this experiment the Media support material was efficient at removing all of the ligand present in the effluent from a long term sorption experiment.

