Paper Outline

Introduction

* Radium legacy contaminant from Uranium wastes
* Radium tracer for groundwater, hydraulic fracturing
* Sparse literature covering radium transport in any setting->issues from radium toxicity/availability

Methods

* ­Sorption isotherms, 4 minerals in 10 mM NaCl, lower activities of Ra
* Simplified surface complexation modeling-> goal is comparable parameters

Results

* Isotherms
* pH sweeps
* Surface complexation fits with parameters

Discussion