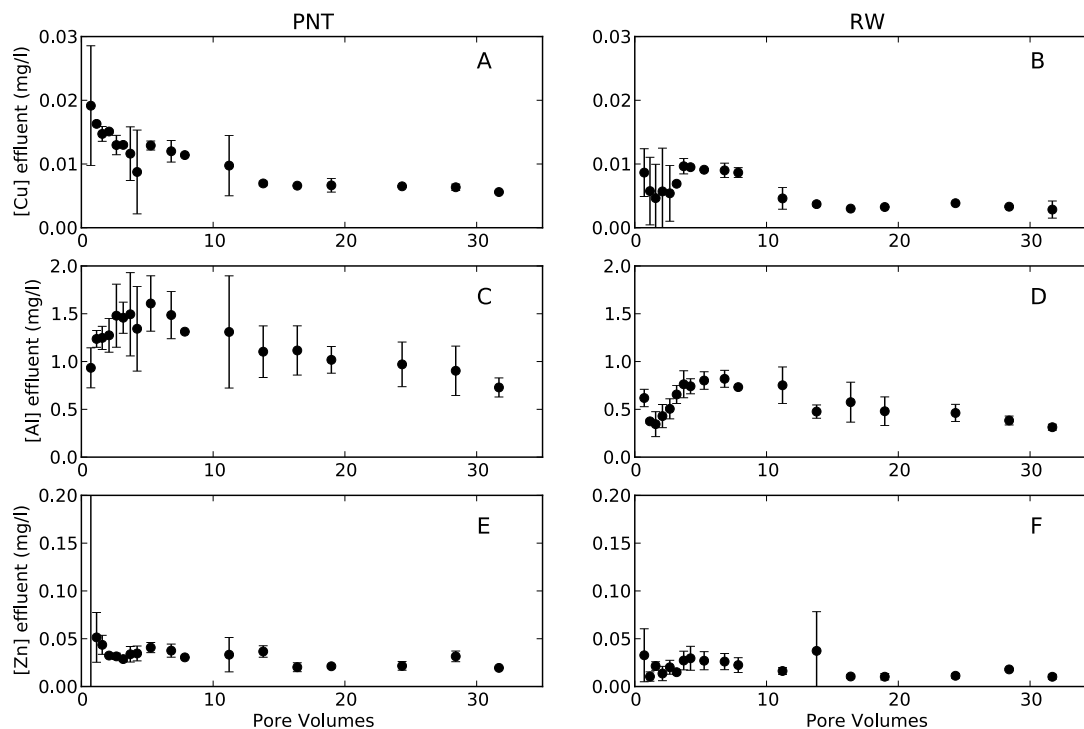


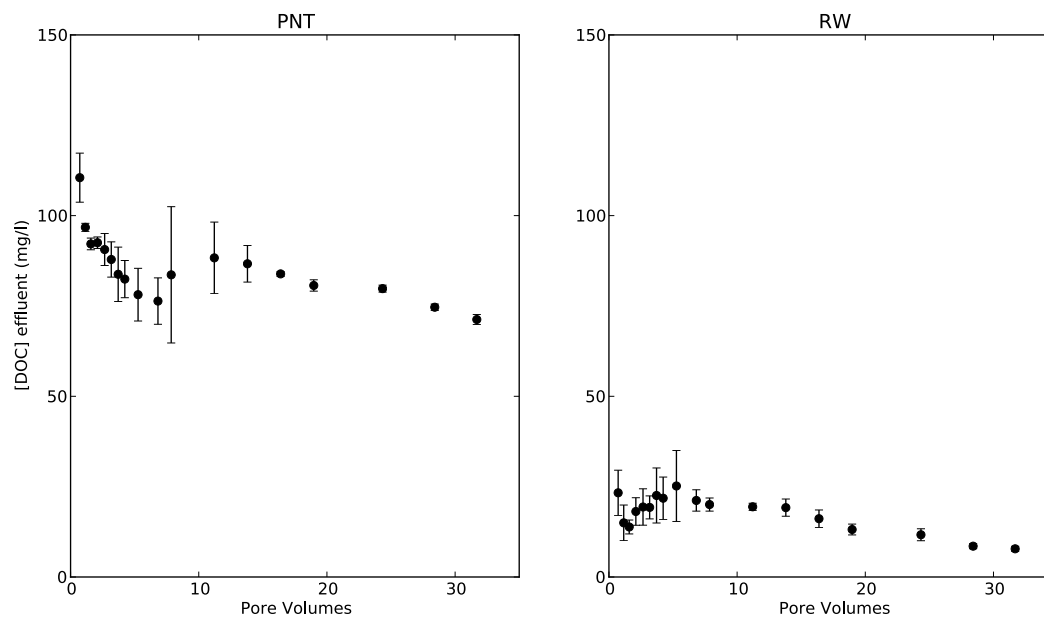
**Supplementary Tables and Figures for Mikkelsen et al. (2013)**  
**Environmental Science: Processes and Impacts**

**Table S1:** Metal species predicted in column effluents from NICA-donnan model. Ranges encompass the max and min percentage of that species (of the total metal concentration in effluent samples) modeled during the entire experimental duration.

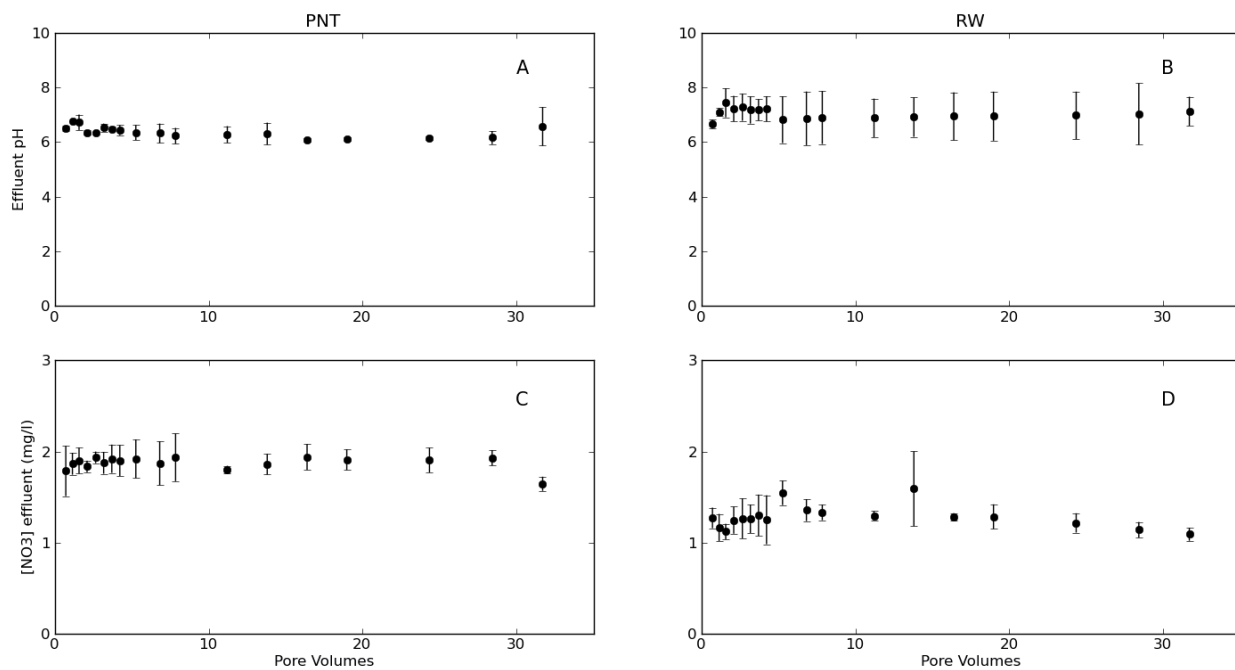
<b>Metal</b>	<b>Species</b>	<b>Control</b>	<b>PNT</b>
<b>Cu</b>	Cu <sup>2+</sup>	0	0
	CuDOM	100	100
<b>Zn</b>	Zn <sup>2+</sup>	7.8 - 72.8	0
	ZnOH <sup>+</sup>	0.1 - 4.2	0
	ZnDOM	25.0 - 92.0	100
<b>Al</b>	Al(OH) <sub>2</sub> <sup>+</sup>	0.1 - 4.6	0
	Al(OH) <sub>3</sub>	2.6 - 10.7	0
	Al(OH) <sub>4</sub> <sup>-</sup>	31.1 - 88.6	0 - 0.1
	AlDOM	8.7 - 53.7	99.9 - 100



**Figure S1:** Average metal concentrations and associated error bars from duplicate column experiments.



**Figure S2:** Average DOC concentrations and associated error bars from duplicate column experiments.



**Figure S3:** Effluent pH and NO<sub>3</sub> values throughout the experimental duration in the PNT (A, C respectively) and RW (B, D respectively) columns.