

Table S1. Experimental results of tungsten removal by hydrocalumite at 25 °C.

Initial W concentration (mmol/L)	Equilibrium W concentration (mmol/L)	Adsorption capacity(mg/g)	W removal percent (%)	pH _{final}
0.0001	0.00006	0.0035	40.0	11.95
0.0005	0.0002	0.029	60.0	11.94
0.001	0.0004	0.057	60.0	12.02
0.005	0.0021	0.265	58.0	12.00
0.01	0.0042	0.533	58.0	11.98
0.02	0.0077	1.135	61.5	11.96
0.05	0.0136	3.347	72.8	11.95
0.1	0.0225	7.127	77.5	11.96
0.2	0.0367	15.01	81.7	11.94
0.5	0.074	39.15	85.2	11.98
1	0.09	83.64	91.0	11.94
2	0.05	179.5	97.5	12.00
5	0.04	456.1	99.2	12.08
10	0.34	888.0	96.6	12.20
15	2.93	1109.9	80.5	12.31
20	7.81	1120.5	61.0	12.32
25	13.03	1100.6	47.9	12.35
30	18.05	1098.0	39.8	12.40
40	28.04	1099.1	29.9	12.43