

Table S2: Comparison of uranium and thorium concentrations (ppm) as determined via daughter products (TSAC or gamma spectroscopy) and inductively coupled plasma mass spectrometry (parent concentrations). The good correspondence in total concentration derived from differing parts of the decay chains suggests no significant ^{238}U or ^{232}Th decay chain disequilibrium.

Sample	Uranium (ICP-MS)	Uranium (TSAC)	Thorium (ICP-MS)	Thorium (TSAC)
Shfd04288	0.95 ± 0.10	0.94 ± 0.06	1.5 ± 0.15	1.39 ± 0.18
	Uranium (ICP-MS)	Uranium (GS)	Thorium (ICP-MS)	Thorium (GS)
Shfd05047	0.66 ± 0.07	0.54 ± 0.02	0.9 ± 0.1	0.86 ± 0.04