



Uranium, Thorium, and Potassium Values from the Homestake Core Archive*



Core / Core Location	U (ppm) ±(5 – 10)%	Th (ppm) ±(5 – 10)%	K (%) ±(1 – 2)%
Core #11537 Yates Member - vertical hole starting at 4850L (1/2 way between Ross and Yates Shafts) – multiple core samples measured	0.160 0.55	0.20 0.30	1.54 2.12
Core #11553 Yates Member drilled from 4850L – multiple samples measured	0.21 0.19	0.30 0.19	1.12 0.92
Core #15537 Poorman Formation Horizontal hole at 7200L	0.080	0.25	0.010
Core #15532 Yates/Poorman from 7300L to 7450L – multiple core samples measured	0.080 0.085	0.25 0.25	0.104 0.125
Core #18627 Yates Member drilled from 7400L – multiple core samples measured	0.18 0.49	0.24 0.20	1.01 0.57
Cores #15680 - 820, 17581 - 822, 11553 - 059, 11537 - 180: Rhyolite dikes – averaged from four samples	8.6	10.8	2.9

*Al Smith, LBNL Low Background Counting Facility
For other than the **rhyolite dikes** these values are a factor of **10 to 20 lower than typical granites**