

TABLE 5A
Area I - Results of Equivalence Test for Secular Equilibrium of Radionuclides¹
Phase B

Uranium Decay Series (U-238 Chain)									
<i>p</i> -value	Conclusion ²	Delta	Sample Size	Number Missing	Analyte	Mean Proportions of Radioactivity	95% Confid. Intervals		Shifts ³
							Lower	Upper	
0	in Secular Equilibrium	0.1	252	0	Ra-226	0.2084	0.1942	0.2227	0
					Th-230	0.2845	0.2728	0.2962	0
					U-234	0.2609	0.2536	0.2681	0
					U-238	0.2462	0.2372	0.2551	0

Thorium Decay Series (Th-232 Chain)									
<i>p</i> -value	Conclusion ²	Delta	Sample Size	Number Missing	Analyte	Mean Proportions of Radioactivity	95% Confid. Intervals		Shifts ³
							Lower	Upper	
0	in Secular Equilibrium	0.1	252	0	Ra-228	0.2860	0.2677	0.3042	0.1
					Th-228	0.3799	0.3688	0.3909	0
					Th-232	0.3342	0.3233	0.3450	0

¹ Analyzed using the EnviroGISdT software tool from Neptune & Company, Inc.

² Tool states "in Secular Equilibrium" if the computed *p*-value is less than a standard significance level of 0.05

³ Data Shift - Lists the values of the data shift utilized by the tool in case of negative radioactivity measurements. All measurements values for that radioisotope are shifted upwards by the shift value so that all values are non-negative. A zero shift value indicates lack of negative measurements.