

Laboratory Results For MAPEP Series 44

(ELIW01) Energy Laboratories, Inc.

2393 Salt Creek HWY

Casper, Wy 82601

MAPEP-21-GrW44: Gross alpha/beta water

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Gross alpha	0.9	0.87	A		3.4	0.26 - 1.48	0.1	A
Gross beta	2.8	2.50	A		12.0	1.25 - 3.75	0.15	A

Radiological Reference Date: February 1, 2021
MAPEP-21-MaW44: Radiological and inorganic combined water standard

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR					False Positive Test		
Cesium-134	NR	11.5				8.1 - 15.0		
Cesium-137	NR	7.9				5.5 - 10.3		
Cobalt-57	NR	11.4				8.0 - 14.8		
Cobalt-60	NR					False Positive Test		
Hydrogen-3	NR					False Positive Test		
Iron-55	NR	26.9				18.8 - 35.0		
Manganese-54	NR	15.5				10.9 - 20.2		
Nickel-63	NR	8.2				5.7 - 10.7		
Plutonium-238	NR	0.577				0.404 - 0.750		
Plutonium-239/240	NR	0.649				0.454 - 0.844		
Potassium-40	NR					False Positive Test		
Radium-226	0.5	0.632	W		-20.9	0.442 - 0.822	0.05	A
Strontium-90	NR	4.47				3.13 - 5.81		
Technetium-99	NR	4.01				2.81 - 5.21		
Uranium-234	0.9	0.85	A		5.9	0.60 - 1.11	0.1	A
Uranium-238	0.9	0.86	A		4.7	0.60 - 1.12	0.1	A
Zinc-65	NR	10.5				7.4 - 13.7		

Radiological Reference Date: February 1, 2021