

Laboratory Results For MAPEP Series 43  
(ELIW01) Energy Laboratories, Inc.  
2393 Salt Creek HWY  
Casper, Wy 82601

### MAPEP-20-GrW43: Gross alpha/beta water

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Gross alpha	0.7	0.62	A		12.9	0.19 - 1.05	0.1	A
Gross beta	0.8	0.83	A		-3.6	0.42 - 1.25	0.05	A

*Radiological Reference Date: August 1, 2020*

### MAPEP-20-MaW43: 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	0.922				0.645 - 1.199		
Cesium-134	NR	15.2				10.6 - 19.8		
Cesium-137	NR	14.3				10.0 - 18.6		
Cobalt-57	NR					False Positive Test		
Cobalt-60	NR	12.2				8.5 - 15.9		
Hydrogen-3	NR	360				252 - 468		
Iron-55	NR	32.9				23.0 - 42.8		
Manganese-54	NR					False Positive Test		
Nickel-63	NR					False Positive Test		
Plutonium-238	NR	0.704				0.493 - 0.915		
Plutonium-239/240	NR	0.0089				Sensitivity Evaluation		
Potassium-40	NR					False Positive Test		
Radium-226	1.3	1.25	A		4.0	0.88 - 1.63	0.15	A
Strontium-90	NR	11.6				8.1 - 15.1		
Technetium-99	NR	9.4				6.6 - 12.2		
Uranium-234	1.2	1.26	A		-4.8	0.88 - 1.64	0.1	A
Uranium-238	1.3	1.3	A		0.0	0.9 - 1.7	0.1	A
Zinc-65	NR	16.9				11.8 - 22.0		

*Radiological Reference Date: August 1, 2020*