

# Mixed Analyte Performance Evaluation Program

## Statistical Summary

Sample ID: MAPEP-06-GrW15

Gross Alpha / Beta Water Standard

Analyte	T(1)	A(2)	Grand Mean	Std. Dev.	Reference Value	Analyte Text	Acceptance Limits	Units
Gross alpha	53	51	0.54	0.22	0.581		>0.0 - 1.162	(Bq/L)
Gross beta	52	46	1.36	0.19	1.13		0.56 - 1.70	(Bq/L)

### Gross Alpha Flags:

A = Result acceptable, Bias  $\leq$  +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty  $> 2$ , i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias  $>$  +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty  $\leq 2$ , i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

### Gross Beta Flags:

A = Result acceptable, Bias  $\leq$  +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty  $> 2$ , i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias  $>$  +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty  $\leq 2$ , i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

### Note:

Outliers are excluded from the statistical summary.

Outliers are defined as laboratory data with a bias greater than 60 percent for gamma spectrometry analyses and 30 percent for all others.

(1) T = Total Number of Laboratories Reporting Analyte.

(2) A = Number of Laboratories with 'Acceptable' Performance.