

Mixed Analyte Performance Evaluation Program

Statistical Summary Mixed Analyte Water Standard

Sample ID: MAPEP-05-MaW14

Analyte	T(1)	A(2)	Grand Mean	Std. Dev.	Reference Value	Analyte Text	Acceptance Limits	Units
Aluminum	1							
Antimony	33	32	1.76	0.08	1.77		1.24 - 2.30	(mg/L)
Arsenic	34	34	2.01	0.12	2.04		1.43 - 2.65	(mg/L)
Barium	34	32	16.64	0.69	16.34		11.44 - 21.24	(mg/L)
Beryllium	34	34	1.29	0.09	1.276		0.89 - 1.66	(mg/L)
Cadmium	30					False Positive Test		
Calcium	1							
Chromium	34	34	1.28	0.06	1.27		0.89 - 1.65	(mg/L)
Cobalt	2							
Copper	33	33	3.77	0.17	3.80		2.66 - 4.94	(mg/L)
Iron	1							
Lead	30					False Positive Test		
Magnesium	1							
Manganese	2							
Mercury	30	28	0.01	0.00	0.00885		0.01 - 0.01	(mg/L)
Molybdenum	1							
Nickel	34	33	1.43	0.06	1.457		1.02 - 1.89	(mg/L)
Potassium	2							
Selenium	34	34	0.43	0.04	0.443		0.31 - 0.58	(mg/L)
Silver	26					False Positive Test		
Sodium	1							
Thallium	33	32	4.93	0.18	4.97		3.48 - 6.46	(mg/L)
Uranium-Total	11	10	0.34	0.02	0.344		0.24 - 0.45	(mg/L)
Uranium-234	1							
Uranium-235	4				0.00248			(mg/L)
Uranium-238	6				0.342			(mg/L)
Vanadium	33	33	0.88	0.05	0.876		0.61 - 1.14	(mg/L)
Zinc	33	32	4.55	0.26	4.57		3.20 - 5.94	(mg/L)
Americium-241	50	47	2.12	0.14	2.23		1.56 - 2.90	(Bq/L)

Note: Outliers are excluded from the statistical summary.
Outliers are defined as laboratory data with a bias greater than 30 percent.
(1) T = Total Number of Laboratories Reporting Analyte.
(2) A = Number of Laboratories with 'Acceptable' Performance.

Analyte	T(1)	A(2)	Grand Mean	Std. Dev.	Reference Value	Analyte Text	Acceptance Limits	Units
Cesium-134	78	78	154.05	11.10	167		116.90 - 217.10	(Bq/L)
Cesium-137	80	80	324.01	14.99	333		233.10 - 432.90	(Bq/L)
Cobalt-57	79	76	274.74	13.67	272		190.40 - 353.60	(Bq/L)
Cobalt-60	80	80	259.67	10.80	261		182.70 - 339.30	(Bq/L)
Hydrogen-3	58	54	523.99	43.81	527		368.90 - 685.10	(Bq/L)
Iron-55	12	10	192.05	19.31	196		137.20 - 254.80	(Bq/L)
Manganese-54	79	79	414.93	21.30	418		292.60 - 543.40	(Bq/L)
Nickel-63	19	15	105.63	11.69	100		70.00 - 130.00	(Bq/L)
Plutonium-238	46	45	1.70	0.12	1.91		1.34 - 2.48	(Bq/L)
Plutonium-239/240	46	43	2.39	0.16	2.75		1.92 - 3.58	(Bq/L)
Strontium-90	47	42	8.76	0.96	8.98		6.29 - 11.67	(Bq/L)
Technetium-99	30	28	65.27	5.80	66.5		46.55 - 86.45	(Bq/L)

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Uranium-234/233	48	47	4.03	0.32	4.1		2.87 - 5.33	(Bq/L)
Uranium-235	3							
Uranium-238	50	49	4.18	0.34	4.26		2.98 - 5.54	(Bq/L)
Zinc-65	78	78	345.92	17.80	330		231.00 - 429.00	(Bq/L)

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