

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: US Army Corp of Engineers **SDG No.:** Q2085
Contract: USAR03 **Lab Code:** CHEM **Case No.:** Q2085 **SAS No.:** Q2085
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV21	Mercury	3.84	4.0	96	90 - 110	CV	05/29/2025	11:18	LB135943

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Initial Calibration Source: EPA
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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV76	Mercury	4.83	5.0	97	90 - 110	CV	05/29/2025	11:22	LB135943
CCV77	Mercury	5.09	5.0	102	90 - 110	CV	05/29/2025	12:25	LB135943
CCV78	Mercury	5.16	5.0	103	90 - 110	CV	05/29/2025	13:01	LB135943
CCV79	Mercury	5.26	5.0	105	90 - 110	CV	05/29/2025	13:19	LB135943

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	470	500	94	90 - 110	P	05/21/2025	14:30	LB135886
	Antimony	197	200	98	90 - 110	P	05/21/2025	14:30	LB135886
	Arsenic	198	200	99	90 - 110	P	05/21/2025	14:30	LB135886
	Barium	99.2	100	99	90 - 110	P	05/21/2025	14:30	LB135886
	Beryllium	106	100	106	90 - 110	P	05/21/2025	14:30	LB135886
	Cadmium	101	100	101	90 - 110	P	05/21/2025	14:30	LB135886
	Calcium	1880	2000	94	90 - 110	P	05/21/2025	14:30	LB135886
	Chromium	101	100	100	90 - 110	P	05/21/2025	14:30	LB135886
	Cobalt	105	100	105	90 - 110	P	05/21/2025	14:30	LB135886
	Copper	108	100	108	90 - 110	P	05/21/2025	14:30	LB135886
	Iron	1970	2000	98	90 - 110	P	05/21/2025	14:30	LB135886
	Lead	203	200	102	90 - 110	P	05/21/2025	14:30	LB135886
	Magnesium	1170	1200	97	90 - 110	P	05/21/2025	14:30	LB135886
	Manganese	101	100	101	90 - 110	P	05/21/2025	14:30	LB135886
	Nickel	111	110	101	90 - 110	P	05/21/2025	14:30	LB135886
	Potassium	1930	2000	97	90 - 110	P	05/21/2025	14:30	LB135886
	Selenium	207	200	104	90 - 110	P	05/21/2025	14:30	LB135886
	Silver	47.6	50.0	95	90 - 110	P	05/21/2025	14:30	LB135886
	Sodium	1940	2000	97	90 - 110	P	05/21/2025	14:30	LB135886
	Thallium	206	210	98	90 - 110	P	05/21/2025	14:30	LB135886
	Vanadium	98.6	100	99	90 - 110	P	05/21/2025	14:30	LB135886
	Zinc	212	200	106	90 - 110	P	05/21/2025	14:30	LB135886

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	19.8	20.0	99	80 - 120	P	05/21/2025	14:33	LB135886
	Antimony	1.96	2.0	98	80 - 120	P	05/21/2025	14:33	LB135886
	Arsenic	1.00	1.0	100	80 - 120	P	05/21/2025	14:33	LB135886
	Barium	9.67	10.0	97	80 - 120	P	05/21/2025	14:33	LB135886
	Beryllium	1.14	1.0	114	80 - 120	P	05/21/2025	14:33	LB135886
	Cadmium	0.90	1.0	90	80 - 120	P	05/21/2025	14:33	LB135886
	Calcium	476	500	95	80 - 120	P	05/21/2025	14:33	LB135886
	Chromium	1.99	2.0	100	80 - 120	P	05/21/2025	14:33	LB135886
	Cobalt	1.07	1.0	107	80 - 120	P	05/21/2025	14:33	LB135886
	Copper	2.14	2.0	107	80 - 120	P	05/21/2025	14:33	LB135886
	Iron	49.5	50.0	99	80 - 120	P	05/21/2025	14:33	LB135886
	Lead	0.83	1.0	83	80 - 120	P	05/21/2025	14:33	LB135886
	Magnesium	500	500	100	80 - 120	P	05/21/2025	14:33	LB135886
	Manganese	0.91	1.0	91	80 - 120	P	05/21/2025	14:33	LB135886
	Nickel	0.93	1.0	93	80 - 120	P	05/21/2025	14:33	LB135886
	Potassium	478	500	96	80 - 120	P	05/21/2025	14:33	LB135886
	Selenium	4.91	5.0	98	80 - 120	P	05/21/2025	14:33	LB135886
	Silver	1.08	1.0	108	80 - 120	P	05/21/2025	14:33	LB135886
	Sodium	506	500	101	80 - 120	P	05/21/2025	14:33	LB135886
	Thallium	0.93	1.0	93	80 - 120	P	05/21/2025	14:33	LB135886
	Vanadium	4.86	5.0	97	80 - 120	P	05/21/2025	14:33	LB135886
	Zinc	5.18	5.0	104	80 - 120	P	05/21/2025	14:33	LB135886

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Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	50400	50000	101	90 - 110	P	05/21/2025	14:51	LB135886
	Antimony	501	500	100	90 - 110	P	05/21/2025	14:51	LB135886
	Arsenic	506	500	101	90 - 110	P	05/21/2025	14:51	LB135886
	Barium	2570	2500	103	90 - 110	P	05/21/2025	14:51	LB135886
	Beryllium	529	500	106	90 - 110	P	05/21/2025	14:51	LB135886
	Cadmium	504	500	101	90 - 110	P	05/21/2025	14:51	LB135886
	Calcium	239000	250000	96	90 - 110	P	05/21/2025	14:51	LB135886
	Chromium	523	500	105	90 - 110	P	05/21/2025	14:51	LB135886
	Cobalt	513	500	102	90 - 110	P	05/21/2025	14:51	LB135886
	Copper	5060	5000	101	90 - 110	P	05/21/2025	14:51	LB135886
	Iron	131000	125000	104	90 - 110	P	05/21/2025	14:51	LB135886
	Lead	2600	2500	104	90 - 110	P	05/21/2025	14:51	LB135886
	Magnesium	246000	250000	98	90 - 110	P	05/21/2025	14:51	LB135886
	Manganese	5190	5000	104	90 - 110	P	05/21/2025	14:51	LB135886
	Nickel	473	500	95	90 - 110	P	05/21/2025	14:51	LB135886
	Potassium	133000	125000	106	90 - 110	P	05/21/2025	14:51	LB135886
	Selenium	495	500	99	90 - 110	P	05/21/2025	14:51	LB135886
	Silver	492	500	98	90 - 110	P	05/21/2025	14:51	LB135886
	Sodium	240000	250000	96	90 - 110	P	05/21/2025	14:51	LB135886
	Thallium	524	500	105	90 - 110	P	05/21/2025	14:51	LB135886
	Vanadium	535	500	107	90 - 110	P	05/21/2025	14:51	LB135886
	Zinc	5180	5000	104	90 - 110	P	05/21/2025	14:51	LB135886
CCV02	Aluminum	50400	50000	101	90 - 110	P	05/21/2025	15:59	LB135886
	Antimony	506	500	101	90 - 110	P	05/21/2025	15:59	LB135886
	Arsenic	500	500	100	90 - 110	P	05/21/2025	15:59	LB135886
	Barium	2570	2500	103	90 - 110	P	05/21/2025	15:59	LB135886
	Beryllium	530	500	106	90 - 110	P	05/21/2025	15:59	LB135886
	Cadmium	508	500	102	90 - 110	P	05/21/2025	15:59	LB135886
	Calcium	240000	250000	96	90 - 110	P	05/21/2025	15:59	LB135886
	Chromium	523	500	105	90 - 110	P	05/21/2025	15:59	LB135886
	Cobalt	513	500	102	90 - 110	P	05/21/2025	15:59	LB135886
	Copper	5080	5000	102	90 - 110	P	05/21/2025	15:59	LB135886
	Iron	130000	125000	104	90 - 110	P	05/21/2025	15:59	LB135886
	Lead	2590	2500	104	90 - 110	P	05/21/2025	15:59	LB135886

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Initial Calibration Source: EPA
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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	249000	250000	99	90 - 110	P	05/21/2025	15:59	LB135886
	Manganese	5130	5000	103	90 - 110	P	05/21/2025	15:59	LB135886
	Nickel	471	500	94	90 - 110	P	05/21/2025	15:59	LB135886
	Potassium	131000	125000	105	90 - 110	P	05/21/2025	15:59	LB135886
	Selenium	492	500	98	90 - 110	P	05/21/2025	15:59	LB135886
	Silver	494	500	99	90 - 110	P	05/21/2025	15:59	LB135886
	Sodium	242000	250000	97	90 - 110	P	05/21/2025	15:59	LB135886
	Thallium	518	500	104	90 - 110	P	05/21/2025	15:59	LB135886
	Vanadium	526	500	105	90 - 110	P	05/21/2025	15:59	LB135886
	Zinc	5260	5000	105	90 - 110	P	05/21/2025	15:59	LB135886
CCV03	Aluminum	48500	50000	97	90 - 110	P	05/21/2025	16:57	LB135886
	Antimony	493	500	99	90 - 110	P	05/21/2025	16:57	LB135886
	Arsenic	480	500	96	90 - 110	P	05/21/2025	16:57	LB135886
	Barium	2500	2500	100	90 - 110	P	05/21/2025	16:57	LB135886
	Beryllium	525	500	105	90 - 110	P	05/21/2025	16:57	LB135886
	Cadmium	488	500	98	90 - 110	P	05/21/2025	16:57	LB135886
	Calcium	235000	250000	94	90 - 110	P	05/21/2025	16:57	LB135886
	Chromium	503	500	101	90 - 110	P	05/21/2025	16:57	LB135886
	Cobalt	485	500	97	90 - 110	P	05/21/2025	16:57	LB135886
	Copper	4870	5000	98	90 - 110	P	05/21/2025	16:57	LB135886
	Iron	124000	125000	99	90 - 110	P	05/21/2025	16:57	LB135886
	Lead	2530	2500	101	90 - 110	P	05/21/2025	16:57	LB135886
	Magnesium	238000	250000	95	90 - 110	P	05/21/2025	16:57	LB135886
	Manganese	4950	5000	99	90 - 110	P	05/21/2025	16:57	LB135886
	Nickel	451	500	90	90 - 110	P	05/21/2025	16:57	LB135886
	Potassium	127000	125000	102	90 - 110	P	05/21/2025	16:57	LB135886
	Selenium	488	500	98	90 - 110	P	05/21/2025	16:57	LB135886
	Silver	484	500	97	90 - 110	P	05/21/2025	16:57	LB135886
	Sodium	234000	250000	94	90 - 110	P	05/21/2025	16:57	LB135886
	Thallium	511	500	102	90 - 110	P	05/21/2025	16:57	LB135886
	Vanadium	504	500	101	90 - 110	P	05/21/2025	16:57	LB135886
	Zinc	4990	5000	100	90 - 110	P	05/21/2025	16:57	LB135886
CCV04	Aluminum	50300	50000	101	90 - 110	P	05/21/2025	18:04	LB135886
	Antimony	505	500	101	90 - 110	P	05/21/2025	18:04	LB135886

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	497	500	99	90 - 110	P	05/21/2025	18:04	LB135886
	Barium	2570	2500	103	90 - 110	P	05/21/2025	18:04	LB135886
	Beryllium	545	500	109	90 - 110	P	05/21/2025	18:04	LB135886
	Cadmium	503	500	101	90 - 110	P	05/21/2025	18:04	LB135886
	Calcium	239000	250000	96	90 - 110	P	05/21/2025	18:04	LB135886
	Chromium	537	500	108	90 - 110	P	05/21/2025	18:04	LB135886
	Cobalt	521	500	104	90 - 110	P	05/21/2025	18:04	LB135886
	Copper	5030	5000	101	90 - 110	P	05/21/2025	18:04	LB135886
	Iron	132000	125000	105	90 - 110	P	05/21/2025	18:04	LB135886
	Lead	2590	2500	103	90 - 110	P	05/21/2025	18:04	LB135886
	Magnesium	250000	250000	100	90 - 110	P	05/21/2025	18:04	LB135886
	Manganese	5240	5000	105	90 - 110	P	05/21/2025	18:04	LB135886
	Nickel	476	500	95	90 - 110	P	05/21/2025	18:04	LB135886
	Potassium	135000	125000	108	90 - 110	P	05/21/2025	18:04	LB135886
	Selenium	495	500	99	90 - 110	P	05/21/2025	18:04	LB135886
	Silver	494	500	99	90 - 110	P	05/21/2025	18:04	LB135886
	Sodium	234000	250000	94	90 - 110	P	05/21/2025	18:04	LB135886
	Thallium	516	500	103	90 - 110	P	05/21/2025	18:04	LB135886
	Vanadium	536	500	107	90 - 110	P	05/21/2025	18:04	LB135886
	Zinc	5130	5000	103	90 - 110	P	05/21/2025	18:04	LB135886