

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2878

Contract: JACO05

Lab Code: ACE

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
ICV27	Mercury	3.72	4.0	93	90 - 110	CV	08/21/2025	08:59	LB136901

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CCV84	Mercury	4.93	5.0	99	90 - 110	CV	08/21/2025	09:03	LB136901
CCV85	Mercury	4.84	5.0	97	90 - 110	CV	08/21/2025	09:36	LB136901
CCV86	Mercury	5.00	5.0	100	90 - 110	CV	08/21/2025	10:12	LB136901

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ICV01	Aluminum	1530	1600	95	90 - 110	P	08/21/2025	12:15	LB136916
	Antimony	410	400	102	90 - 110	P	08/21/2025	12:15	LB136916
	Arsenic	404	400	101	90 - 110	P	08/21/2025	12:15	LB136916
	Barium	1600	1600	100	90 - 110	P	08/21/2025	12:15	LB136916
	Beryllium	40.4	40.0	101	90 - 110	P	08/21/2025	12:15	LB136916
	Cadmium	207	200	104	90 - 110	P	08/21/2025	12:15	LB136916
	Calcium	4220	4000	106	90 - 110	P	08/21/2025	12:15	LB136916
	Chromium	161	160	101	90 - 110	P	08/21/2025	12:15	LB136916
	Cobalt	400	400	100	90 - 110	P	08/21/2025	12:15	LB136916
	Copper	187	200	93	90 - 110	P	08/21/2025	12:15	LB136916
	Iron	856	800	107	90 - 110	P	08/21/2025	12:15	LB136916
	Lead	371	400	93	90 - 110	P	08/21/2025	12:15	LB136916
	Magnesium	3710	4000	93	90 - 110	P	08/21/2025	12:15	LB136916
	Manganese	369	400	92	90 - 110	P	08/21/2025	12:15	LB136916
	Nickel	409	400	102	90 - 110	P	08/21/2025	12:15	LB136916
	Potassium	3900	4000	98	90 - 110	P	08/21/2025	12:15	LB136916
	Selenium	404	400	101	90 - 110	P	08/21/2025	12:15	LB136916
	Silver	209	200	105	90 - 110	P	08/21/2025	12:15	LB136916
	Sodium	4010	4000	100	90 - 110	P	08/21/2025	12:15	LB136916
	Thallium	378	400	94	90 - 110	P	08/21/2025	12:15	LB136916
	Vanadium	396	400	99	90 - 110	P	08/21/2025	12:15	LB136916
	Zinc	376	400	94	90 - 110	P	08/21/2025	12:15	LB136916

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LLICV01	Aluminum	19.3	20.0	96	80 - 120	P	08/21/2025	12:26	LB136916
	Antimony	2.10	2.0	105	80 - 120	P	08/21/2025	12:26	LB136916
	Arsenic	0.99	1.0	99	80 - 120	P	08/21/2025	12:26	LB136916
	Barium	9.84	10.0	98	80 - 120	P	08/21/2025	12:26	LB136916
	Beryllium	1.09	1.0	109	80 - 120	P	08/21/2025	12:26	LB136916
	Cadmium	1.05	1.0	105	80 - 120	P	08/21/2025	12:26	LB136916
	Calcium	516	500	103	80 - 120	P	08/21/2025	12:26	LB136916
	Chromium	1.96	2.0	98	80 - 120	P	08/21/2025	12:26	LB136916
	Cobalt	1.06	1.0	106	80 - 120	P	08/21/2025	12:26	LB136916
	Copper	2.00	2.0	100	80 - 120	P	08/21/2025	12:26	LB136916
	Iron	53.8	50.0	108	80 - 120	P	08/21/2025	12:26	LB136916
	Lead	0.82	1.0	82	80 - 120	P	08/21/2025	12:26	LB136916
	Magnesium	497	500	99	80 - 120	P	08/21/2025	12:26	LB136916
	Manganese	1.02	1.0	102	80 - 120	P	08/21/2025	12:26	LB136916
	Nickel	0.99	1.0	99	80 - 120	P	08/21/2025	12:26	LB136916
	Potassium	504	500	101	80 - 120	P	08/21/2025	12:26	LB136916
	Selenium	5.45	5.0	109	80 - 120	P	08/21/2025	12:26	LB136916
	Silver	1.09	1.0	109	80 - 120	P	08/21/2025	12:26	LB136916
	Sodium	510	500	102	80 - 120	P	08/21/2025	12:26	LB136916
	Thallium	0.96	1.0	96	80 - 120	P	08/21/2025	12:26	LB136916
	Vanadium	4.98	5.0	100	80 - 120	P	08/21/2025	12:26	LB136916
	Zinc	5.43	5.0	109	80 - 120	P	08/21/2025	12:26	LB136916

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CCV01	Aluminum	46300	50000	93	90 - 110	P	08/21/2025	12:39	LB136916
	Antimony	522	500	104	90 - 110	P	08/21/2025	12:39	LB136916
	Arsenic	500	500	100	90 - 110	P	08/21/2025	12:39	LB136916
	Barium	2650	2500	106	90 - 110	P	08/21/2025	12:39	LB136916
	Beryllium	521	500	104	90 - 110	P	08/21/2025	12:39	LB136916
	Cadmium	512	500	102	90 - 110	P	08/21/2025	12:39	LB136916
	Calcium	249000	250000	100	90 - 110	P	08/21/2025	12:39	LB136916
	Chromium	511	500	102	90 - 110	P	08/21/2025	12:39	LB136916
	Cobalt	505	500	101	90 - 110	P	08/21/2025	12:39	LB136916
	Copper	4990	5000	100	90 - 110	P	08/21/2025	12:39	LB136916
	Iron	122000	125000	97	90 - 110	P	08/21/2025	12:39	LB136916
	Lead	2590	2500	104	90 - 110	P	08/21/2025	12:39	LB136916
	Magnesium	247000	250000	99	90 - 110	P	08/21/2025	12:39	LB136916
	Manganese	5070	5000	101	90 - 110	P	08/21/2025	12:39	LB136916
	Nickel	495	500	99	90 - 110	P	08/21/2025	12:39	LB136916
	Potassium	122000	125000	98	90 - 110	P	08/21/2025	12:39	LB136916
	Selenium	489	500	98	90 - 110	P	08/21/2025	12:39	LB136916
	Silver	518	500	104	90 - 110	P	08/21/2025	12:39	LB136916
	Sodium	251000	250000	100	90 - 110	P	08/21/2025	12:39	LB136916
	Thallium	520	500	104	90 - 110	P	08/21/2025	12:39	LB136916
	Vanadium	510	500	102	90 - 110	P	08/21/2025	12:39	LB136916
	Zinc	4820	5000	96	90 - 110	P	08/21/2025	12:39	LB136916
CCV02	Aluminum	46800	50000	94	90 - 110	P	08/21/2025	13:40	LB136916
	Antimony	519	500	104	90 - 110	P	08/21/2025	13:40	LB136916
	Arsenic	495	500	99	90 - 110	P	08/21/2025	13:40	LB136916
	Barium	2630	2500	105	90 - 110	P	08/21/2025	13:40	LB136916
	Beryllium	519	500	104	90 - 110	P	08/21/2025	13:40	LB136916
	Cadmium	506	500	101	90 - 110	P	08/21/2025	13:40	LB136916
	Calcium	252000	250000	101	90 - 110	P	08/21/2025	13:40	LB136916
	Chromium	496	500	99	90 - 110	P	08/21/2025	13:40	LB136916
	Cobalt	484	500	97	90 - 110	P	08/21/2025	13:40	LB136916
	Copper	4960	5000	99	90 - 110	P	08/21/2025	13:40	LB136916
	Iron	121000	125000	96	90 - 110	P	08/21/2025	13:40	LB136916
	Lead	2500	2500	100	90 - 110	P	08/21/2025	13:40	LB136916

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CCV02	Magnesium	249000	250000	100	90 - 110	P	08/21/2025	13:40	LB136916
	Manganese	5000	5000	100	90 - 110	P	08/21/2025	13:40	LB136916
	Nickel	488	500	98	90 - 110	P	08/21/2025	13:40	LB136916
	Potassium	121000	125000	97	90 - 110	P	08/21/2025	13:40	LB136916
	Selenium	488	500	98	90 - 110	P	08/21/2025	13:40	LB136916
	Silver	515	500	103	90 - 110	P	08/21/2025	13:40	LB136916
	Sodium	254000	250000	102	90 - 110	P	08/21/2025	13:40	LB136916
	Thallium	505	500	101	90 - 110	P	08/21/2025	13:40	LB136916
	Vanadium	498	500	100	90 - 110	P	08/21/2025	13:40	LB136916
	Zinc	4810	5000	96	90 - 110	P	08/21/2025	13:40	LB136916
CCV03	Aluminum	48300	50000	96	90 - 110	P	08/21/2025	14:32	LB136916
	Antimony	502	500	100	90 - 110	P	08/21/2025	14:32	LB136916
	Arsenic	507	500	101	90 - 110	P	08/21/2025	14:32	LB136916
	Barium	2560	2500	102	90 - 110	P	08/21/2025	14:32	LB136916
	Beryllium	531	500	106	90 - 110	P	08/21/2025	14:32	LB136916
	Cadmium	495	500	99	90 - 110	P	08/21/2025	14:32	LB136916
	Calcium	244000	250000	98	90 - 110	P	08/21/2025	14:32	LB136916
	Chromium	512	500	102	90 - 110	P	08/21/2025	14:32	LB136916
	Cobalt	507	500	101	90 - 110	P	08/21/2025	14:32	LB136916
	Copper	5010	5000	100	90 - 110	P	08/21/2025	14:32	LB136916
	Iron	122000	125000	98	90 - 110	P	08/21/2025	14:32	LB136916
	Lead	2540	2500	102	90 - 110	P	08/21/2025	14:32	LB136916
	Magnesium	254000	250000	102	90 - 110	P	08/21/2025	14:32	LB136916
	Manganese	5100	5000	102	90 - 110	P	08/21/2025	14:32	LB136916
	Nickel	498	500	100	90 - 110	P	08/21/2025	14:32	LB136916
	Potassium	125000	125000	100	90 - 110	P	08/21/2025	14:32	LB136916
	Selenium	483	500	96	90 - 110	P	08/21/2025	14:32	LB136916
	Silver	507	500	101	90 - 110	P	08/21/2025	14:32	LB136916
	Sodium	252000	250000	101	90 - 110	P	08/21/2025	14:32	LB136916
	Thallium	502	500	100	90 - 110	P	08/21/2025	14:32	LB136916
	Vanadium	510	500	102	90 - 110	P	08/21/2025	14:32	LB136916
	Zinc	4870	5000	97	90 - 110	P	08/21/2025	14:32	LB136916
CCV04	Aluminum	47200	50000	94	90 - 110	P	08/21/2025	15:12	LB136916
	Antimony	506	500	101	90 - 110	P	08/21/2025	15:12	LB136916

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CCV04	Arsenic	502	500	100	90 - 110	P	08/21/2025	15:12	LB136916
	Barium	2540	2500	102	90 - 110	P	08/21/2025	15:12	LB136916
	Beryllium	515	500	103	90 - 110	P	08/21/2025	15:12	LB136916
	Cadmium	499	500	100	90 - 110	P	08/21/2025	15:12	LB136916
	Calcium	238000	250000	95	90 - 110	P	08/21/2025	15:12	LB136916
	Chromium	501	500	100	90 - 110	P	08/21/2025	15:12	LB136916
	Cobalt	493	500	99	90 - 110	P	08/21/2025	15:12	LB136916
	Copper	4930	5000	99	90 - 110	P	08/21/2025	15:12	LB136916
	Iron	119000	125000	95	90 - 110	P	08/21/2025	15:12	LB136916
	Lead	2500	2500	100	90 - 110	P	08/21/2025	15:12	LB136916
	Magnesium	251000	250000	100	90 - 110	P	08/21/2025	15:12	LB136916
	Manganese	5020	5000	100	90 - 110	P	08/21/2025	15:12	LB136916
	Nickel	487	500	97	90 - 110	P	08/21/2025	15:12	LB136916
	Potassium	122000	125000	98	90 - 110	P	08/21/2025	15:12	LB136916
	Selenium	483	500	97	90 - 110	P	08/21/2025	15:12	LB136916
	Silver	508	500	102	90 - 110	P	08/21/2025	15:12	LB136916
	Sodium	252000	250000	101	90 - 110	P	08/21/2025	15:12	LB136916
	Thallium	506	500	101	90 - 110	P	08/21/2025	15:12	LB136916
	Vanadium	505	500	101	90 - 110	P	08/21/2025	15:12	LB136916
	Zinc	4750	5000	95	90 - 110	P	08/21/2025	15:12	LB136916