

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Hero Construction

SDG No.: Q2928

Contract: HERO01

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
ICV05	Mercury	4.02	4.0	100	90 - 110	CV	08/26/2025	10:03	LB136952

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV12	Mercury	4.98	5.0	100	90 - 110	CV	08/26/2025	10:07	LB136952
CCV13	Mercury	4.95	5.0	99	90 - 110	CV	08/26/2025	10:36	LB136952
CCV14	Mercury	4.86	5.0	97	90 - 110	CV	08/26/2025	11:14	LB136952

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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	8020	8000	100	90 - 110	P	08/25/2025	11:44	LB136951
	Antimony	4040	4000	101	90 - 110	P	08/25/2025	11:44	LB136951
	Arsenic	3870	4000	97	90 - 110	P	08/25/2025	11:44	LB136951
	Barium	7970	8000	100	90 - 110	P	08/25/2025	11:44	LB136951
	Beryllium	206	200	103	90 - 110	P	08/25/2025	11:44	LB136951
	Cadmium	1940	2000	97	90 - 110	P	08/25/2025	11:44	LB136951
	Calcium	20000	20000	100	90 - 110	P	08/25/2025	11:44	LB136951
	Chromium	810	800	101	90 - 110	P	08/25/2025	11:44	LB136951
	Cobalt	1970	2000	98	90 - 110	P	08/25/2025	11:44	LB136951
	Copper	1010	1000	101	90 - 110	P	08/25/2025	11:44	LB136951
	Iron	3960	4000	99	90 - 110	P	08/25/2025	11:44	LB136951
	Lead	3980	4000	100	90 - 110	P	08/25/2025	11:44	LB136951
	Magnesium	20100	20000	101	90 - 110	P	08/25/2025	11:44	LB136951
	Manganese	2010	2000	100	90 - 110	P	08/25/2025	11:44	LB136951
	Nickel	1960	2000	98	90 - 110	P	08/25/2025	11:44	LB136951
	Potassium	19600	20000	98	90 - 110	P	08/25/2025	11:44	LB136951
	Selenium	3900	4000	97	90 - 110	P	08/25/2025	11:44	LB136951
	Silver	977	1000	98	90 - 110	P	08/25/2025	11:44	LB136951
	Sodium	19400	20000	97	90 - 110	P	08/25/2025	11:44	LB136951
	Thallium	3930	4000	98	90 - 110	P	08/25/2025	11:44	LB136951
	Vanadium	2030	2000	102	90 - 110	P	08/25/2025	11:44	LB136951
	Zinc	1990	2000	100	90 - 110	P	08/25/2025	11:44	LB136951

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LLICV01	Aluminum	115	100	115	80 - 120	P	08/25/2025	11:48	LB136951
	Antimony	51.4	50.0	103	80 - 120	P	08/25/2025	11:48	LB136951
	Arsenic	20.0	20.0	100	80 - 120	P	08/25/2025	11:48	LB136951
	Barium	103	100	104	80 - 120	P	08/25/2025	11:48	LB136951
	Beryllium	6.33	6.0	106	80 - 120	P	08/25/2025	11:48	LB136951
	Cadmium	6.02	6.0	100	80 - 120	P	08/25/2025	11:48	LB136951
	Calcium	2110	2000	105	80 - 120	P	08/25/2025	11:48	LB136951
	Chromium	10.3	10.0	103	80 - 120	P	08/25/2025	11:48	LB136951
	Cobalt	30.0	30.0	100	80 - 120	P	08/25/2025	11:48	LB136951
	Copper	21.8	20.0	109	80 - 120	P	08/25/2025	11:48	LB136951
	Iron	102	100	102	80 - 120	P	08/25/2025	11:48	LB136951
	Lead	10.8	12.0	90	80 - 120	P	08/25/2025	11:48	LB136951
	Magnesium	2250	2000	112	80 - 120	P	08/25/2025	11:48	LB136951
	Manganese	22.8	20.0	114	80 - 120	P	08/25/2025	11:48	LB136951
	Nickel	40.5	40.0	101	80 - 120	P	08/25/2025	11:48	LB136951
	Potassium	2190	2000	110	80 - 120	P	08/25/2025	11:48	LB136951
	Selenium	20.5	20.0	103	80 - 120	P	08/25/2025	11:48	LB136951
	Silver	10.4	10.0	104	80 - 120	P	08/25/2025	11:48	LB136951
	Sodium	1960	2000	98	80 - 120	P	08/25/2025	11:48	LB136951
	Thallium	41.7	40.0	104	80 - 120	P	08/25/2025	11:48	LB136951
	Vanadium	37.4	40.0	94	80 - 120	P	08/25/2025	11:48	LB136951
	Zinc	41.6	40.0	104	80 - 120	P	08/25/2025	11:48	LB136951

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9880	10000	99	90 - 110	P	08/25/2025	12:33	LB136951
	Antimony	5000	5000	100	90 - 110	P	08/25/2025	12:33	LB136951
	Arsenic	4940	5000	99	90 - 110	P	08/25/2025	12:33	LB136951
	Barium	10200	10000	102	90 - 110	P	08/25/2025	12:33	LB136951
	Beryllium	241	250	96	90 - 110	P	08/25/2025	12:33	LB136951
	Cadmium	2430	2500	97	90 - 110	P	08/25/2025	12:33	LB136951
	Calcium	25000	25000	100	90 - 110	P	08/25/2025	12:33	LB136951
	Chromium	987	1000	99	90 - 110	P	08/25/2025	12:33	LB136951
	Cobalt	2440	2500	98	90 - 110	P	08/25/2025	12:33	LB136951
	Copper	1240	1250	99	90 - 110	P	08/25/2025	12:33	LB136951
	Iron	5080	5000	102	90 - 110	P	08/25/2025	12:33	LB136951
	Lead	4830	5000	96	90 - 110	P	08/25/2025	12:33	LB136951
	Magnesium	24500	25000	98	90 - 110	P	08/25/2025	12:33	LB136951
	Manganese	2520	2500	101	90 - 110	P	08/25/2025	12:33	LB136951
	Nickel	2440	2500	98	90 - 110	P	08/25/2025	12:33	LB136951
	Potassium	25000	25000	100	90 - 110	P	08/25/2025	12:33	LB136951
	Selenium	4930	5000	99	90 - 110	P	08/25/2025	12:33	LB136951
	Silver	1220	1250	98	90 - 110	P	08/25/2025	12:33	LB136951
	Sodium	25500	25000	102	90 - 110	P	08/25/2025	12:33	LB136951
	Thallium	4800	5000	96	90 - 110	P	08/25/2025	12:33	LB136951
	Vanadium	2500	2500	100	90 - 110	P	08/25/2025	12:33	LB136951
	Zinc	2460	2500	99	90 - 110	P	08/25/2025	12:33	LB136951
CCV02	Aluminum	9800	10000	98	90 - 110	P	08/25/2025	13:44	LB136951
	Antimony	4910	5000	98	90 - 110	P	08/25/2025	13:44	LB136951
	Arsenic	4870	5000	97	90 - 110	P	08/25/2025	13:44	LB136951
	Barium	9920	10000	99	90 - 110	P	08/25/2025	13:44	LB136951
	Beryllium	248	250	99	90 - 110	P	08/25/2025	13:44	LB136951
	Cadmium	2450	2500	98	90 - 110	P	08/25/2025	13:44	LB136951
	Calcium	24700	25000	99	90 - 110	P	08/25/2025	13:44	LB136951
	Chromium	999	1000	100	90 - 110	P	08/25/2025	13:44	LB136951
	Cobalt	2440	2500	98	90 - 110	P	08/25/2025	13:44	LB136951
	Copper	1230	1250	98	90 - 110	P	08/25/2025	13:44	LB136951
	Iron	4910	5000	98	90 - 110	P	08/25/2025	13:44	LB136951
	Lead	4860	5000	97	90 - 110	P	08/25/2025	13:44	LB136951

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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	24600	25000	98	90 - 110	P	08/25/2025	13:44	LB136951
	Manganese	2470	2500	99	90 - 110	P	08/25/2025	13:44	LB136951
	Nickel	2450	2500	98	90 - 110	P	08/25/2025	13:44	LB136951
	Potassium	24200	25000	97	90 - 110	P	08/25/2025	13:44	LB136951
	Selenium	4860	5000	97	90 - 110	P	08/25/2025	13:44	LB136951
	Silver	1210	1250	97	90 - 110	P	08/25/2025	13:44	LB136951
	Sodium	23900	25000	96	90 - 110	P	08/25/2025	13:44	LB136951
	Thallium	4650	5000	93	90 - 110	P	08/25/2025	13:44	LB136951
	Vanadium	2480	2500	99	90 - 110	P	08/25/2025	13:44	LB136951
	Zinc	2440	2500	98	90 - 110	P	08/25/2025	13:44	LB136951
CCV03	Aluminum	9800	10000	98	90 - 110	P	08/25/2025	14:33	LB136951
	Antimony	4860	5000	97	90 - 110	P	08/25/2025	14:33	LB136951
	Arsenic	4840	5000	97	90 - 110	P	08/25/2025	14:33	LB136951
	Barium	9780	10000	98	90 - 110	P	08/25/2025	14:33	LB136951
	Beryllium	248	250	99	90 - 110	P	08/25/2025	14:33	LB136951
	Cadmium	2420	2500	97	90 - 110	P	08/25/2025	14:33	LB136951
	Calcium	24700	25000	99	90 - 110	P	08/25/2025	14:33	LB136951
	Chromium	994	1000	99	90 - 110	P	08/25/2025	14:33	LB136951
	Cobalt	2410	2500	96	90 - 110	P	08/25/2025	14:33	LB136951
	Copper	1210	1250	97	90 - 110	P	08/25/2025	14:33	LB136951
	Iron	4960	5000	99	90 - 110	P	08/25/2025	14:33	LB136951
	Lead	4790	5000	96	90 - 110	P	08/25/2025	14:33	LB136951
	Magnesium	24600	25000	98	90 - 110	P	08/25/2025	14:33	LB136951
	Manganese	2470	2500	99	90 - 110	P	08/25/2025	14:33	LB136951
	Nickel	2410	2500	97	90 - 110	P	08/25/2025	14:33	LB136951
	Potassium	24600	25000	98	90 - 110	P	08/25/2025	14:33	LB136951
	Selenium	4840	5000	97	90 - 110	P	08/25/2025	14:33	LB136951
	Silver	1220	1250	98	90 - 110	P	08/25/2025	14:33	LB136951
	Sodium	24400	25000	98	90 - 110	P	08/25/2025	14:33	LB136951
	Thallium	5090	5000	102	90 - 110	P	08/25/2025	14:33	LB136951
	Vanadium	2470	2500	99	90 - 110	P	08/25/2025	14:33	LB136951
	Zinc	2470	2500	99	90 - 110	P	08/25/2025	14:33	LB136951
CCV04	Aluminum	9840	10000	98	90 - 110	P	08/25/2025	15:23	LB136951
	Antimony	4890	5000	98	90 - 110	P	08/25/2025	15:23	LB136951

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CCV04	Arsenic	4890	5000	98	90 - 110	P	08/25/2025	15:23	LB136951
	Barium	9750	10000	98	90 - 110	P	08/25/2025	15:23	LB136951
	Beryllium	246	250	98	90 - 110	P	08/25/2025	15:23	LB136951
	Cadmium	2450	2500	98	90 - 110	P	08/25/2025	15:23	LB136951
	Calcium	24800	25000	99	90 - 110	P	08/25/2025	15:23	LB136951
	Chromium	1000	1000	100	90 - 110	P	08/25/2025	15:23	LB136951
	Cobalt	2430	2500	97	90 - 110	P	08/25/2025	15:23	LB136951
	Copper	1230	1250	98	90 - 110	P	08/25/2025	15:23	LB136951
	Iron	5010	5000	100	90 - 110	P	08/25/2025	15:23	LB136951
	Lead	4850	5000	97	90 - 110	P	08/25/2025	15:23	LB136951
	Magnesium	24700	25000	99	90 - 110	P	08/25/2025	15:23	LB136951
	Manganese	2470	2500	99	90 - 110	P	08/25/2025	15:23	LB136951
	Nickel	2450	2500	98	90 - 110	P	08/25/2025	15:23	LB136951
	Potassium	24900	25000	100	90 - 110	P	08/25/2025	15:23	LB136951
	Selenium	4900	5000	98	90 - 110	P	08/25/2025	15:23	LB136951
	Silver	1220	1250	98	90 - 110	P	08/25/2025	15:23	LB136951
	Sodium	24700	25000	99	90 - 110	P	08/25/2025	15:23	LB136951
	Thallium	5070	5000	101	90 - 110	P	08/25/2025	15:23	LB136951
	Vanadium	2480	2500	99	90 - 110	P	08/25/2025	15:23	LB136951
	Zinc	2480	2500	99	90 - 110	P	08/25/2025	15:23	LB136951
CCV05	Aluminum	9660	10000	97	90 - 110	P	08/25/2025	16:06	LB136951
	Antimony	4850	5000	97	90 - 110	P	08/25/2025	16:06	LB136951
	Arsenic	4820	5000	96	90 - 110	P	08/25/2025	16:06	LB136951
	Barium	9650	10000	96	90 - 110	P	08/25/2025	16:06	LB136951
	Beryllium	240	250	96	90 - 110	P	08/25/2025	16:06	LB136951
	Cadmium	2410	2500	96	90 - 110	P	08/25/2025	16:06	LB136951
	Calcium	24200	25000	97	90 - 110	P	08/25/2025	16:06	LB136951
	Chromium	992	1000	99	90 - 110	P	08/25/2025	16:06	LB136951
	Cobalt	2390	2500	96	90 - 110	P	08/25/2025	16:06	LB136951
	Copper	1210	1250	97	90 - 110	P	08/25/2025	16:06	LB136951
	Iron	4900	5000	98	90 - 110	P	08/25/2025	16:06	LB136951
	Lead	4750	5000	95	90 - 110	P	08/25/2025	16:06	LB136951
	Magnesium	24100	25000	96	90 - 110	P	08/25/2025	16:06	LB136951
	Manganese	2390	2500	96	90 - 110	P	08/25/2025	16:06	LB136951

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CCV05	Nickel	2400	2500	96	90 - 110	P	08/25/2025	16:06	LB136951
	Potassium	24700	25000	99	90 - 110	P	08/25/2025	16:06	LB136951
	Selenium	4830	5000	97	90 - 110	P	08/25/2025	16:06	LB136951
	Silver	1200	1250	96	90 - 110	P	08/25/2025	16:06	LB136951
	Sodium	23700	25000	95	90 - 110	P	08/25/2025	16:06	LB136951
	Thallium	5020	5000	100	90 - 110	P	08/25/2025	16:06	LB136951
	Vanadium	2430	2500	97	90 - 110	P	08/25/2025	16:06	LB136951
	Zinc	2450	2500	98	90 - 110	P	08/25/2025	16:06	LB136951