

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Antimony	982	1000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Arsenic	950	1000	95	90 - 110	P	10/29/2024	11:59	LB133198
	Barium	474	520	91	90 - 110	P	10/29/2024	11:59	LB133198
	Beryllium	470	510	92	90 - 110	P	10/29/2024	11:59	LB133198
	Cadmium	478	510	94	90 - 110	P	10/29/2024	11:59	LB133198
	Chromium	533	520	102	90 - 110	P	10/29/2024	11:59	LB133198
	Cobalt	511	520	98	90 - 110	P	10/29/2024	11:59	LB133198
	Copper	525	510	103	90 - 110	P	10/29/2024	11:59	LB133198
	Iron	10300	10000	102	90 - 110	P	10/29/2024	11:59	LB133198
	Lead	958	1000	96	90 - 110	P	10/29/2024	11:59	LB133198
	Manganese	478	520	92	90 - 110	P	10/29/2024	11:59	LB133198
	Nickel	514	530	97	90 - 110	P	10/29/2024	11:59	LB133198
	Potassium	10200	9900	103	90 - 110	P	10/29/2024	11:59	LB133198
	Selenium	979	1000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Silver	260	250	104	90 - 110	P	10/29/2024	11:59	LB133198
	Sodium	9770	10000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Thallium	1000	1000	100	90 - 110	P	10/29/2024	11:59	LB133198
	Vanadium	461	500	92	90 - 110	P	10/29/2024	11:59	LB133198
	Zinc	1040	1000	104	90 - 110	P	10/29/2024	11:59	LB133198

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Antimony	50.1	50.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Arsenic	19.0	20.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Barium	94.2	100	94	80 - 120	P	10/29/2024	12:31	LB133198
	Beryllium	5.69	6.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Cadmium	5.68	6.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Chromium	10.2	10.0	102	80 - 120	P	10/29/2024	12:31	LB133198
	Cobalt	30.2	30.0	101	80 - 120	P	10/29/2024	12:31	LB133198
	Copper	21.7	20.0	108	80 - 120	P	10/29/2024	12:31	LB133198
	Iron	105	100	105	80 - 120	P	10/29/2024	12:31	LB133198
	Lead	9.73	12.0	81	80 - 120	P	10/29/2024	12:31	LB133198
	Manganese	19.6	20.0	98	80 - 120	P	10/29/2024	12:31	LB133198
	Nickel	40.0	40.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Potassium	1890	2000	95	80 - 120	P	10/29/2024	12:31	LB133198
	Selenium	20.1	20.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Silver	11.2	10.0	112	80 - 120	P	10/29/2024	12:31	LB133198
	Sodium	1800	2000	90	80 - 120	P	10/29/2024	12:31	LB133198
	Thallium	36.2	40.0	91	80 - 120	P	10/29/2024	12:31	LB133198
	Vanadium	37.8	40.0	94	80 - 120	P	10/29/2024	12:31	LB133198
	Zinc	38.9	40.0	97	80 - 120	P	10/29/2024	12:31	LB133198

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Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Antimony	4940	5000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Arsenic	4910	5000	98	90 - 110	P	10/29/2024	13:01	LB133198
	Barium	9460	10000	95	90 - 110	P	10/29/2024	13:01	LB133198
	Beryllium	238	250	95	90 - 110	P	10/29/2024	13:01	LB133198
	Cadmium	2450	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Chromium	994	1000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Cobalt	2440	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Copper	1250	1250	100	90 - 110	P	10/29/2024	13:01	LB133198
	Iron	4810	5000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Lead	4870	5000	97	90 - 110	P	10/29/2024	13:01	LB133198
	Manganese	2320	2500	93	90 - 110	P	10/29/2024	13:01	LB133198
	Nickel	2450	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Potassium	24500	25000	98	90 - 110	P	10/29/2024	13:01	LB133198
	Selenium	4950	5000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Silver	1230	1250	98	90 - 110	P	10/29/2024	13:01	LB133198
	Sodium	24100	25000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Thallium	4690	5000	94	90 - 110	P	10/29/2024	13:01	LB133198
	Vanadium	2390	2500	96	90 - 110	P	10/29/2024	13:01	LB133198
	Zinc	2510	2500	100	90 - 110	P	10/29/2024	13:01	LB133198
CCV02	Antimony	4810	5000	96	90 - 110	P	10/29/2024	14:04	LB133198
	Arsenic	4780	5000	96	90 - 110	P	10/29/2024	14:04	LB133198
	Barium	9090	10000	91	90 - 110	P	10/29/2024	14:04	LB133198
	Beryllium	241	250	96	90 - 110	P	10/29/2024	14:04	LB133198
	Cadmium	2330	2500	93	90 - 110	P	10/29/2024	14:04	LB133198
	Chromium	946	1000	95	90 - 110	P	10/29/2024	14:04	LB133198
	Cobalt	2330	2500	93	90 - 110	P	10/29/2024	14:04	LB133198
	Copper	1200	1250	96	90 - 110	P	10/29/2024	14:04	LB133198
	Iron	4590	5000	92	90 - 110	P	10/29/2024	14:04	LB133198
	Lead	4670	5000	93	90 - 110	P	10/29/2024	14:04	LB133198
	Manganese	2560	2500	103	90 - 110	P	10/29/2024	14:04	LB133198
	Nickel	2340	2500	94	90 - 110	P	10/29/2024	14:04	LB133198
	Potassium	23600	25000	94	90 - 110	P	10/29/2024	14:04	LB133198
	Selenium	4870	5000	97	90 - 110	P	10/29/2024	14:04	LB133198
	Silver	1170	1250	94	90 - 110	P	10/29/2024	14:04	LB133198

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Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Sodium	23000	25000	92	90 - 110	P	10/29/2024	14:04	LB133198
	Thallium	5060	5000	101	90 - 110	P	10/29/2024	14:04	LB133198
	Vanadium	2260	2500	90	90 - 110	P	10/29/2024	14:04	LB133198
	Zinc	2390	2500	96	90 - 110	P	10/29/2024	14:04	LB133198
CCV03	Antimony	5010	5000	100	90 - 110	P	10/29/2024	15:02	LB133198
	Arsenic	5490	5000	110	90 - 110	P	10/29/2024	15:02	LB133198
	Barium	10400	10000	104	90 - 110	P	10/29/2024	15:02	LB133198
	Beryllium	235	250	94	90 - 110	P	10/29/2024	15:02	LB133198
	Cadmium	2660	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
	Chromium	901	1000	90	90 - 110	P	10/29/2024	15:02	LB133198
	Cobalt	2520	2500	101	90 - 110	P	10/29/2024	15:02	LB133198
	Copper	1130	1250	90	90 - 110	P	10/29/2024	15:02	LB133198
	Iron	5480	5000	110	90 - 110	P	10/29/2024	15:02	LB133198
	Lead	4700	5000	94	90 - 110	P	10/29/2024	15:02	LB133198
	Manganese	2450	2500	98	90 - 110	P	10/29/2024	15:02	LB133198
	Nickel	2580	2500	103	90 - 110	P	10/29/2024	15:02	LB133198
	Potassium	26900	25000	108	90 - 110	P	10/29/2024	15:02	LB133198
	Selenium	4530	5000	91	90 - 110	P	10/29/2024	15:02	LB133198
	Silver	1230	1250	98	90 - 110	P	10/29/2024	15:02	LB133198
	Sodium	23300	25000	93	90 - 110	P	10/29/2024	15:02	LB133198
	Thallium	5410	5000	108	90 - 110	P	10/29/2024	15:02	LB133198
	Vanadium	2650	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
	Zinc	2660	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
CCV04	Antimony	4760	5000	95	90 - 110	P	10/29/2024	15:59	LB133198
	Arsenic	5440	5000	109	90 - 110	P	10/29/2024	15:59	LB133198
	Barium	10300	10000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Beryllium	225	250	90	90 - 110	P	10/29/2024	15:59	LB133198
	Cadmium	2640	2500	106	90 - 110	P	10/29/2024	15:59	LB133198
	Chromium	901	1000	90	90 - 110	P	10/29/2024	15:59	LB133198
	Cobalt	2480	2500	99	90 - 110	P	10/29/2024	15:59	LB133198
	Copper	1230	1250	98	90 - 110	P	10/29/2024	15:59	LB133198
	Iron	5400	5000	108	90 - 110	P	10/29/2024	15:59	LB133198
	Lead	4620	5000	92	90 - 110	P	10/29/2024	15:59	LB133198
	Manganese	2490	2500	100	90 - 110	P	10/29/2024	15:59	LB133198

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Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Nickel	2540	2500	102	90 - 110	P	10/29/2024	15:59	LB133198
	Potassium	25700	25000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Selenium	4680	5000	94	90 - 110	P	10/29/2024	15:59	LB133198
	Silver	1210	1250	97	90 - 110	P	10/29/2024	15:59	LB133198
	Sodium	22600	25000	90	90 - 110	P	10/29/2024	15:59	LB133198
	Thallium	4990	5000	100	90 - 110	P	10/29/2024	15:59	LB133198
	Vanadium	2660	2500	106	90 - 110	P	10/29/2024	15:59	LB133198
	Zinc	2610	2500	104	90 - 110	P	10/29/2024	15:59	LB133198
CCV05	Antimony	4760	5000	95	90 - 110	P	10/29/2024	16:53	LB133198
	Arsenic	5450	5000	109	90 - 110	P	10/29/2024	16:53	LB133198
	Barium	10800	10000	108	90 - 110	P	10/29/2024	16:53	LB133198
	Beryllium	231	250	92	90 - 110	P	10/29/2024	16:53	LB133198
	Cadmium	2630	2500	105	90 - 110	P	10/29/2024	16:53	LB133198
	Chromium	928	1000	93	90 - 110	P	10/29/2024	16:53	LB133198
	Cobalt	2470	2500	99	90 - 110	P	10/29/2024	16:53	LB133198
	Copper	1230	1250	98	90 - 110	P	10/29/2024	16:53	LB133198
	Iron	5380	5000	108	90 - 110	P	10/29/2024	16:53	LB133198
	Lead	4590	5000	92	90 - 110	P	10/29/2024	16:53	LB133198
	Manganese	2520	2500	101	90 - 110	P	10/29/2024	16:53	LB133198
	Nickel	2530	2500	101	90 - 110	P	10/29/2024	16:53	LB133198
	Potassium	27200	25000	109	90 - 110	P	10/29/2024	16:53	LB133198
	Selenium	4690	5000	94	90 - 110	P	10/29/2024	16:53	LB133198
	Silver	1140	1250	91	90 - 110	P	10/29/2024	16:53	LB133198
	Sodium	23800	25000	95	90 - 110	P	10/29/2024	16:53	LB133198
	Thallium	5020	5000	100	90 - 110	P	10/29/2024	16:53	LB133198
	Vanadium	2710	2500	109	90 - 110	P	10/29/2024	16:53	LB133198
	Zinc	2280	2500	91	90 - 110	P	10/29/2024	16:53	LB133198
	Antimony	4670	5000	93	90 - 110	P	10/29/2024	17:53	LB133198
CCV06	Arsenic	5370	5000	107	90 - 110	P	10/29/2024	17:53	LB133198
	Barium	10600	10000	106	90 - 110	P	10/29/2024	17:53	LB133198
	Beryllium	245	250	98	90 - 110	P	10/29/2024	17:53	LB133198
	Cadmium	2600	2500	104	90 - 110	P	10/29/2024	17:53	LB133198
	Chromium	915	1000	92	90 - 110	P	10/29/2024	17:53	LB133198
	Cobalt	2430	2500	97	90 - 110	P	10/29/2024	17:53	LB133198

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Copper	1200	1250	96	90 - 110	P	10/29/2024	17:53	LB133198
	Iron	5130	5000	103	90 - 110	P	10/29/2024	17:53	LB133198
	Lead	4570	5000	91	90 - 110	P	10/29/2024	17:53	LB133198
	Manganese	2400	2500	96	90 - 110	P	10/29/2024	17:53	LB133198
	Nickel	2490	2500	100	90 - 110	P	10/29/2024	17:53	LB133198
	Potassium	24700	25000	99	90 - 110	P	10/29/2024	17:53	LB133198
	Selenium	4700	5000	94	90 - 110	P	10/29/2024	17:53	LB133198
	Silver	1210	1250	97	90 - 110	P	10/29/2024	17:53	LB133198
	Sodium	24000	25000	96	90 - 110	P	10/29/2024	17:53	LB133198
	Thallium	5450	5000	109	90 - 110	P	10/29/2024	17:53	LB133198
	Vanadium	2570	2500	103	90 - 110	P	10/29/2024	17:53	LB133198
	Zinc	2670	2500	107	90 - 110	P	10/29/2024	17:53	LB133198
CCV07	Antimony	4930	5000	99	90 - 110	P	10/29/2024	18:20	LB133198
	Arsenic	5470	5000	109	90 - 110	P	10/29/2024	18:20	LB133198
	Barium	10800	10000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Beryllium	235	250	94	90 - 110	P	10/29/2024	18:20	LB133198
	Cadmium	2320	2500	93	90 - 110	P	10/29/2024	18:20	LB133198
	Chromium	933	1000	93	90 - 110	P	10/29/2024	18:20	LB133198
	Cobalt	2280	2500	91	90 - 110	P	10/29/2024	18:20	LB133198
	Copper	1270	1250	102	90 - 110	P	10/29/2024	18:20	LB133198
	Iron	5400	5000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Lead	4600	5000	92	90 - 110	P	10/29/2024	18:20	LB133198
	Manganese	2520	2500	101	90 - 110	P	10/29/2024	18:20	LB133198
	Nickel	2290	2500	92	90 - 110	P	10/29/2024	18:20	LB133198
	Potassium	26200	25000	105	90 - 110	P	10/29/2024	18:20	LB133198
	Selenium	5390	5000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Silver	1130	1250	91	90 - 110	P	10/29/2024	18:20	LB133198
	Sodium	22500	25000	90	90 - 110	P	10/29/2024	18:20	LB133198
	Thallium	4880	5000	98	90 - 110	P	10/29/2024	18:20	LB133198
	Vanadium	2690	2500	108	90 - 110	P	10/29/2024	18:20	LB133198
	Zinc	2260	2500	90	90 - 110	P	10/29/2024	18:20	LB133198