



CRDL STANDARD FOR AA & ICP

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Aluminum	101	100	102	40 - 160	P	03/14/2024	12:56	LB129894
	Antimony	53.7	50.0	107	40 - 160	P	03/14/2024	12:56	LB129894
	Arsenic	21.3	20.0	106	40 - 160	P	03/14/2024	12:56	LB129894
	Barium	110	100	110	40 - 160	P	03/14/2024	12:56	LB129894
	Beryllium	6.27	6.0	105	40 - 160	P	03/14/2024	12:56	LB129894
	Cadmium	6.27	6.0	105	40 - 160	P	03/14/2024	12:56	LB129894
	Calcium	2260	2000	113	40 - 160	P	03/14/2024	12:56	LB129894
	Chromium	9.82	10.0	98	40 - 160	P	03/14/2024	12:56	LB129894
	Cobalt	29.6	30.0	99	40 - 160	P	03/14/2024	12:56	LB129894
	Copper	22.4	20.0	112	40 - 160	P	03/14/2024	12:56	LB129894
	Iron	101	100	101	40 - 160	P	03/14/2024	12:56	LB129894
	Lead	11.8	12.0	99	40 - 160	P	03/14/2024	12:56	LB129894
	Magnesium	2270	2000	114	40 - 160	P	03/14/2024	12:56	LB129894
	Manganese	22.4	20.0	112	40 - 160	P	03/14/2024	12:56	LB129894
	Nickel	40.2	40.0	100	40 - 160	P	03/14/2024	12:56	LB129894
	Potassium	2000	2000	100	40 - 160	P	03/14/2024	12:56	LB129894
	Selenium	18.2	20.0	91	40 - 160	P	03/14/2024	12:56	LB129894
	Silver	10.7	10.0	107	40 - 160	P	03/14/2024	12:56	LB129894
	Sodium	1970	2000	98	40 - 160	P	03/14/2024	12:56	LB129894
	Thallium	43.4	40.0	108	40 - 160	P	03/14/2024	12:56	LB129894
Vanadium	43.2	40.0	108	40 - 160	P	03/14/2024	12:56	LB129894	
Zinc	44.0	40.0	110	40 - 160	P	03/14/2024	12:56	LB129894	
CRI01	Aluminum	100	100	100	40 - 160	P	03/18/2024	18:03	LB129934
	Antimony	53.1	50.0	106	40 - 160	P	03/18/2024	18:03	LB129934
	Arsenic	21.0	20.0	105	40 - 160	P	03/18/2024	18:03	LB129934
	Barium	107	100	107	40 - 160	P	03/18/2024	18:03	LB129934
	Beryllium	6.32	6.0	105	40 - 160	P	03/18/2024	18:03	LB129934
	Cadmium	6.41	6.0	107	40 - 160	P	03/18/2024	18:03	LB129934
	Calcium	2190	2000	109	40 - 160	P	03/18/2024	18:03	LB129934
	Chromium	10.4	10.0	104	40 - 160	P	03/18/2024	18:03	LB129934
	Cobalt	30.6	30.0	102	40 - 160	P	03/18/2024	18:03	LB129934
	Copper	23.1	20.0	116	40 - 160	P	03/18/2024	18:03	LB129934
	Iron	99.0	100	99	40 - 160	P	03/18/2024	18:03	LB129934
	Lead	11.4	12.0	95	40 - 160	P	03/18/2024	18:03	LB129934
	Magnesium	2250	2000	113	40 - 160	P	03/18/2024	18:03	LB129934



Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: LiRo Engineers, Inc.SDG No.: P1747Contract: LIRO01Lab Code: CHEMCase No.: P1747SAS No.: P1747

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Manganese	22.0	20.0	110	40 - 160	P	03/18/2024	18:03	LB129934
	Nickel	40.7	40.0	102	40 - 160	P	03/18/2024	18:03	LB129934
	Potassium	1960	2000	98	40 - 160	P	03/18/2024	18:03	LB129934
	Selenium	20.9	20.0	104	40 - 160	P	03/18/2024	18:03	LB129934
	Silver	10.4	10.0	104	40 - 160	P	03/18/2024	18:03	LB129934
	Sodium	1940	2000	97	40 - 160	P	03/18/2024	18:03	LB129934
	Thallium	42.1	40.0	105	40 - 160	P	03/18/2024	18:03	LB129934
	Vanadium	41.7	40.0	104	40 - 160	P	03/18/2024	18:03	LB129934
	Zinc	45.0	40.0	112	40 - 160	P	03/18/2024	18:03	LB129934
CRA	Mercury	0.20	0.2	98	40 - 160	CV	03/19/2024	12:46	LB129940
CRA	Mercury	0.044	0.05	87	40 - 160	CV	03/20/2024	14:39	LB129958
CRI01	Aluminum	103	100	102	40 - 160	P	03/21/2024	12:12	LB129987
	Antimony	56.5	50.0	113	40 - 160	P	03/21/2024	12:12	LB129987
	Arsenic	21.9	20.0	109	40 - 160	P	03/21/2024	12:12	LB129987
	Barium	107	100	107	40 - 160	P	03/21/2024	12:12	LB129987
	Beryllium	6.25	6.0	104	40 - 160	P	03/21/2024	12:12	LB129987
	Cadmium	6.44	6.0	107	40 - 160	P	03/21/2024	12:12	LB129987
	Calcium	2180	2000	109	40 - 160	P	03/21/2024	12:12	LB129987
	Chromium	11.0	10.0	110	40 - 160	P	03/21/2024	12:12	LB129987
	Cobalt	30.9	30.0	103	40 - 160	P	03/21/2024	12:12	LB129987
	Copper	24.3	20.0	122	40 - 160	P	03/21/2024	12:12	LB129987
	Iron	104	100	104	40 - 160	P	03/21/2024	12:12	LB129987
	Lead	10.5	12.0	87	40 - 160	P	03/21/2024	12:12	LB129987
	Magnesium	2220	2000	111	40 - 160	P	03/21/2024	12:12	LB129987
	Manganese	21.6	20.0	108	40 - 160	P	03/21/2024	12:12	LB129987
	Nickel	41.3	40.0	103	40 - 160	P	03/21/2024	12:12	LB129987
	Potassium	2070	2000	103	40 - 160	P	03/21/2024	12:12	LB129987
	Selenium	23.0	20.0	115	40 - 160	P	03/21/2024	12:12	LB129987
	Silver	11.5	10.0	115	40 - 160	P	03/21/2024	12:12	LB129987
	Sodium	2020	2000	101	40 - 160	P	03/21/2024	12:12	LB129987
	Thallium	46.8	40.0	117	40 - 160	P	03/21/2024	12:12	LB129987
	Vanadium	44.5	40.0	111	40 - 160	P	03/21/2024	12:12	LB129987
	Zinc	45.6	40.0	114	40 - 160	P	03/21/2024	12:12	LB129987
CRI01	Aluminum	99.2	100	99	40 - 160	P	03/26/2024	11:22	LB130043
	Antimony	55.6	50.0	111	40 - 160	P	03/26/2024	11:22	LB130043
	Arsenic	22.5	20.0	112	40 - 160	P	03/26/2024	11:22	LB130043
	Barium	105	100	105	40 - 160	P	03/26/2024	11:22	LB130043



Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: LiRo Engineers, Inc.

SDG No.: P1747

Contract: LIRO01

Lab Code: CHEM

Case No.: P1747

SAS No.: P1747

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Beryllium	6.00	6.0	100	40 - 160	P	03/26/2024	11:22	LB130043
	Cadmium	6.21	6.0	104	40 - 160	P	03/26/2024	11:22	LB130043
	Calcium	2180	2000	109	40 - 160	P	03/26/2024	11:22	LB130043
	Chromium	10.4	10.0	104	40 - 160	P	03/26/2024	11:22	LB130043
	Cobalt	30.4	30.0	101	40 - 160	P	03/26/2024	11:22	LB130043
	Copper	24.9	20.0	124	40 - 160	P	03/26/2024	11:22	LB130043
	Iron	105	100	105	40 - 160	P	03/26/2024	11:22	LB130043
	Lead	10.7	12.0	90	40 - 160	P	03/26/2024	11:22	LB130043
	Magnesium	2080	2000	104	40 - 160	P	03/26/2024	11:22	LB130043
	Manganese	21.8	20.0	109	40 - 160	P	03/26/2024	11:22	LB130043
	Nickel	40.9	40.0	102	40 - 160	P	03/26/2024	11:22	LB130043
	Potassium	1980	2000	99	40 - 160	P	03/26/2024	11:22	LB130043
	Selenium	20.2	20.0	101	40 - 160	P	03/26/2024	11:22	LB130043
	Silver	10.3	10.0	103	40 - 160	P	03/26/2024	11:22	LB130043
	Sodium	1840	2000	92	40 - 160	P	03/26/2024	11:22	LB130043
	Thallium	42.6	40.0	106	40 - 160	P	03/26/2024	11:22	LB130043
	Vanadium	40.2	40.0	100	40 - 160	P	03/26/2024	11:22	LB130043
	Zinc	44.2	40.0	110	40 - 160	P	03/26/2024	11:22	LB130043