



AAFCO
Proficiency Testing Program



Minerals Scheme

Llama Feed

Test Material Code # 202052

Analyte Summary Report

Labs Reporting: 28

Analytes Reported: 16

Issue Date : 07/31/2020

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	Horwitz SD	Uncertainty (U) Robust	% RSD - Horwitz	Average Range (R-bar)	Thompson Horwitz %RSD
015	Aluminum (ppm)	18	18	305.0	46.90	303.4	20.53	14.30	6.77%	16.66	6.77%
017	Boron (ppm)	12	11	65.92	5.807	66.04	5.623	2.384	8.51%	1.777	8.51%
021	Cobalt (ppm)	19	19	3.278	0.6832	3.245	0.4348	0.1904	13.40%	0.2083	13.40%
022	Copper (ppm)	24	23	181.2	25.01	183.1	13.37	5.085	7.30%	9.229	7.30%
023	Fluorine (ppm)	4	4	89.66	38.41	89.66	7.291	3.645	8.13%	5.080	8.13%
024	Iodine (ppm)	5	4	94.97	20.12	94.97	7.656	3.828	8.06%	7.753	8.06%
034	Selenium (ppm)	20	15	1.872	0.3981	1.844	0.2690	0.1199	14.59%	0.1311	14.59%
036	Sulfur (%)	19	19	0.4221	0.0263	0.4220	0.0192	0.0077	4.55%	0.0186	4.55%
038	Molybdenum (ppm)	20	19	53.05	3.465	53.02	4.666	1.039	8.80%	2.722	8.80%
041	Vanadium (ppm)	9	8	3.494	1.660	3.057	0.4133	0.2747	13.52%	0.4391	13.52%
516	Arsenic, Total (ppm)	23	21	2.465	0.3641	2.480	0.3460	0.0972	13.95%	0.2087	13.95%
518	Cadmium (ppm)	25	23	0.6812	0.1778	0.6908	0.1168	0.0414	16.91%	0.0404	16.91%
520	Chromium (ppm)	22	21	58.15	7.413	58.49	5.072	2.061	8.67%	3.462	8.67%
526	Lead (ppm)	25	25	98.53	20.54	99.17	7.942	3.873	8.01%	8.265	8.01%
529	Mercury (ppb)	17	15	160.2	224.4	109.2	24.03	19.19	22.00%	17.37	22.00%
539	Nickel (ppm)	19	19	57.16	9.362	58.59	5.079	1.634	8.67%	3.925	8.67%

Notes: Robust statistics not used if < 6 labs reporting. In this case Means and SD's may be reported based on Raw Data with obvious blunders removed. Robust Assigned Values indicated in bold font. Horwitz and Revised Horwitz SD's assigned regardless of participant number.