



Analyte Proficiency Testing Report Minerals Program

Sample # 201651
Cattle Feed

Labs Reporting: 24
Issue Date : 04/30/2016

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO CS	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs	Z Score	Method	
015	Aluminum (mg / kg (ppm))	0510	171.50	3.0000	207.62	14.878	7.8593	12	-2.43	015.43	0
015	Aluminum (mg / kg (ppm))	2058	177.84	4.2900	207.62	14.878	7.8593	12	-2.00	015.43	0
015	Aluminum (mg / kg (ppm))	0918	194.77	1.2820	207.62	14.878	7.8593	12	-0.86	015.43	0
015	Aluminum (mg / kg (ppm))	0047	196.25	5.1000	207.62	14.878	7.8593	12	-0.76	015.52	0
015	Aluminum (mg / kg (ppm))	0278	199.49	6.9000	207.62	14.878	7.8593	12	-0.55	015.43	0
015	Aluminum (mg / kg (ppm))	0042	199.50	11.000	207.62	14.878	7.8593	12	-0.55	015.42	0
015	Aluminum (mg / kg (ppm))	0227	214.00	8.0000	207.62	14.878	7.8593	12	0.43	015.41	0
015	Aluminum (mg / kg (ppm))	0098	214.25	17.100	207.62	14.878	7.8593	12	0.45	015.43	0
015	Aluminum (mg / kg (ppm))	0407	218.87	9.6400	207.62	14.878	7.8593	12	0.76	015.41	0
015	Aluminum (mg / kg (ppm))	0208	222.00	24.000	207.62	14.878	7.8593	12	0.97	015.41	0
015	Aluminum (mg / kg (ppm))	0553	240.00	0.00000	207.62	14.878	7.8593	12	2.18	015.53	0
015	Aluminum (mg / kg (ppm))	2033	243.00	4.0000	207.62	14.878	7.8593	12	2.38	015.43	0
017	Boron (mg / kg (ppm))	0208	15.800	1.4000	19.831	2.0236	1.3371	7	-1.99	017.44	0
017	Boron (mg / kg (ppm))	0407	18.505	0.95000	19.831	2.0236	1.3371	7	-0.66	017.41	0
017	Boron (mg / kg (ppm))	2033	18.600	4.0000	19.831	2.0236	1.3371	7	-0.61	017.43	0
017	Boron (mg / kg (ppm))	0510	20.000	0.00000	19.831	2.0236	1.3371	7	0.08	017.43	0
017	Boron (mg / kg (ppm))	0098	21.130	1.4600	19.831	2.0236	1.3371	7	0.64	017.43	0
017	Boron (mg / kg (ppm))	0226	21.945	0.21000	19.831	2.0236	1.3371	7	1.04	017.44	0
017	Boron (mg / kg (ppm))	0918	22.840	1.3400	19.831	2.0236	1.3371	7	1.49	017.43	0
021	Cobalt (mg / kg (ppm))	0278	40.730	1.4400	53.707	4.7173	1.7819	14	-2.75	021.43	0
021	Cobalt (mg / kg (ppm))	0619	48.150	1.1000	53.707	4.7173	1.7819	14	-1.18	021.41	0
021	Cobalt (mg / kg (ppm))	0042	48.900	0.40000	53.707	4.7173	1.7819	14	-1.02	021.42	0
021	Cobalt (mg / kg (ppm))	0407	50.530	0.77890	53.707	4.7173	1.7819	14	-0.67	021.41	0
021	Cobalt (mg / kg (ppm))	0510	52.240	1.4800	53.707	4.7173	1.7819	14	-0.31	021.43	0
021	Cobalt (mg / kg (ppm))	2033	52.550	4.1000	53.707	4.7173	1.7819	14	-0.25	021.43	0
021	Cobalt (mg / kg (ppm))	0563	53.500	0.60000	53.707	4.7173	1.7819	14	-0.04	021.31	0
021	Cobalt (mg / kg (ppm))	0033	53.600	1.4000	53.707	4.7173	1.7819	14	-0.02	021.53	0
021	Cobalt (mg / kg (ppm))	0227	55.500	1.0000	53.707	4.7173	1.7819	14	0.38	021.31	0
021	Cobalt (mg / kg (ppm))	0918	55.726	1.4673	53.707	4.7173	1.7819	14	0.43	021.53	0
021	Cobalt (mg / kg (ppm))	0555	57.000	2.0000	53.707	4.7173	1.7819	14	0.70	021.52	0
021	Cobalt (mg / kg (ppm))	0208	58.050	0.10000	53.707	4.7173	1.7819	14	0.92	021.31	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs			
021	Cobalt (mg / kg (ppm))	0098	58.740	2.9400	53.707	4.7173	1.7819	14	1.07	021.43	0
021	Cobalt (mg / kg (ppm))	0047	66.920	6.1400	53.707	4.7173	1.7819	14	2.80	021.52	0
021	Cobalt (mg / kg (ppm))	0553	65.550	12.100	53.707	4.7173	1.7819	14	2.51	021.53	1
022	Copper (mg / kg (ppm))	0026	0.04100	0.00200	455.13	28.981	31.519	21	-15.70	022.42	0
022	Copper (mg / kg (ppm))	0619	299.50	31.000	455.13	28.981	31.519	21	-5.37	022.41	0
022	Copper (mg / kg (ppm))	0563	350.00	4.0000	455.13	28.981	31.519	21	-3.63	022.31	0
022	Copper (mg / kg (ppm))	0407	372.59	11.936	455.13	28.981	31.519	21	-2.85	022.41	0
022	Copper (mg / kg (ppm))	0227	396.00	12.000	455.13	28.981	31.519	21	-2.04	022.41	0
022	Copper (mg / kg (ppm))	0226	430.00	16.000	455.13	28.981	31.519	21	-0.87	022.41	0
022	Copper (mg / kg (ppm))	0226	430.00	16.000	455.13	28.981	31.519	21	-0.87	022.44	0
022	Copper (mg / kg (ppm))	2058	437.99	20.350	455.13	28.981	31.519	21	-0.59	022.43	0
022	Copper (mg / kg (ppm))	0042	444.50	67.000	455.13	28.981	31.519	21	-0.37	022.42	0
022	Copper (mg / kg (ppm))	0918	447.65	2.9100	455.13	28.981	31.519	21	-0.26	022.43	0
022	Copper (mg / kg (ppm))	0098	449.30	20.200	455.13	28.981	31.519	21	-0.20	022.53	0
022	Copper (mg / kg (ppm))	0202	464.50	3.0000	455.13	28.981	31.519	21	0.32	022.42	0
022	Copper (mg / kg (ppm))	0208	473.00	52.000	455.13	28.981	31.519	21	0.62	022.31	0
022	Copper (mg / kg (ppm))	0010	486.50	99.000	455.13	28.981	31.519	21	1.08	022.33	0
022	Copper (mg / kg (ppm))	0510	489.00	4.0000	455.13	28.981	31.519	21	1.17	022.43	0
022	Copper (mg / kg (ppm))	0208	503.00	93.200	455.13	28.981	31.519	21	1.65	022.41	0
022	Copper (mg / kg (ppm))	0555	525.00	30.000	455.13	28.981	31.519	21	2.41	022.52	0
022	Copper (mg / kg (ppm))	2033	530.00	100.00	455.13	28.981	31.519	21	2.58	022.43	0
022	Copper (mg / kg (ppm))	0555	535.00	30.000	455.13	28.981	31.519	21	2.76	022.42	0
022	Copper (mg / kg (ppm))	0553	552.50	35.000	455.13	28.981	31.519	21	3.36	022.53	0
022	Copper (mg / kg (ppm))	0047	562.55	14.300	455.13	28.981	31.519	21	3.71	022.52	0
023	Fluorine (mg / kg (ppm))	0596	88.350	0.50000	126.50	9.7667	4.6200	5	-3.91	023.01	0
023	Fluorine (mg / kg (ppm))	0619	95.400	1.6000	126.50	9.7667	4.6200	5	-3.18	023.01	0
023	Fluorine (mg / kg (ppm))	2033	128.24	0.00000	126.50	9.7667	4.6200	5	0.18	023.01	0
023	Fluorine (mg / kg (ppm))	0208	134.50	11.000	126.50	9.7667	4.6200	5	0.82	023.01	0
023	Fluorine (mg / kg (ppm))	0563	186.00	10.000	126.50	9.7667	4.6200	5	6.09	023.01	0
024	Iodine (mg / kg (ppm))	2058	0.69000	0.08000				2		024.53	0
024	Iodine (mg / kg (ppm))	2033	0.84250	0.11100				2		024.53	0
034	Selenium (mg / kg (ppm))	0619	0.36950	0.01300	0.58230	0.10105	0.02424	15	-2.11	034.43	0
034	Selenium (mg / kg (ppm))	2033	0.49400	0.05000	0.58230	0.10105	0.02424	15	-0.87	034.53	0
034	Selenium (mg / kg (ppm))	2058	0.50500	0.01000	0.58230	0.10105	0.02424	15	-0.76	034.53	0
034	Selenium (mg / kg (ppm))	0227	0.52500	0.01000	0.58230	0.10105	0.02424	15	-0.57	034.04	0
034	Selenium (mg / kg (ppm))	0555	0.54000	0.02000	0.58230	0.10105	0.02424	15	-0.42	034.52	0
034	Selenium (mg / kg (ppm))	0563	0.54500	0.01000	0.58230	0.10105	0.02424	15	-0.37	034.04	0
034	Selenium (mg / kg (ppm))	0033	0.55500	0.03000	0.58230	0.10105	0.02424	15	-0.27	034.53	0
034	Selenium (mg / kg (ppm))	0208	0.57400	0.04400	0.58230	0.10105	0.02424	15	-0.08	034.04	0
034	Selenium (mg / kg (ppm))	0644	0.58000	0.00000	0.58230	0.10105	0.02424	15	-0.02	034.53	0
034	Selenium (mg / kg (ppm))	0555	0.58000	0.04000	0.58230	0.10105	0.02424	15	-0.02	034.99	0
034	Selenium (mg / kg (ppm))	0278	0.61000	0.02000	0.58230	0.10105	0.02424	15	0.27	034.43	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs			
034	Selenium (mg / kg (ppm))	0553	0.63250	0.00100	0.58230	0.10105	0.02424	15	0.50	034.53	0
034	Selenium (mg / kg (ppm))	0098	0.70250	0.04300	0.58230	0.10105	0.02424	15	1.19	034.53	0
034	Selenium (mg / kg (ppm))	0918	0.72690	0.00260	0.58230	0.10105	0.02424	15	1.43	034.43	0
034	Selenium (mg / kg (ppm))	0047	0.84500	0.07000	0.58230	0.10105	0.02424	15	2.60	034.52	0
036	Sulfur (%)	0596	0.11750	0.00300	0.30953	0.01477	0.00572	13	-13.00	036.00	0
036	Sulfur (%)	0227	0.29000	0.00000	0.30953	0.01477	0.00572	13	-1.32	036.43	0
036	Sulfur (%)	0870	0.29250	0.01080	0.30953	0.01477	0.00572	13	-1.15	036.42	0
036	Sulfur (%)	0918	0.29300	0.00400	0.30953	0.01477	0.00572	13	-1.12	036.43	0
036	Sulfur (%)	0202	0.30000	0.00000	0.30953	0.01477	0.00572	13	-0.65	036.42	0
036	Sulfur (%)	0098	0.30000	0.01600	0.30953	0.01477	0.00572	13	-0.65	036.43	0
036	Sulfur (%)	0407	0.30350	0.00060	0.30953	0.01477	0.00572	13	-0.41	036.42	0
036	Sulfur (%)	0010	0.30500	0.01000	0.30953	0.01477	0.00572	13	-0.31	036.43	0
036	Sulfur (%)	0555	0.31000	0.00000	0.30953	0.01477	0.00572	13	0.03	036.42	0
036	Sulfur (%)	0510	0.32500	0.01000	0.30953	0.01477	0.00572	13	1.05	036.43	0
036	Sulfur (%)	2033	0.33780	0.00000	0.30953	0.01477	0.00572	13	1.91	036.43	0
036	Sulfur (%)	0619	0.34800	0.01400	0.30953	0.01477	0.00572	13	2.60	036.43	0
036	Sulfur (%)	0042	0.41400	0.00600	0.30953	0.01477	0.00572	13	7.07	036.42	0
036	Sulfur (%)	0226	0.29500	0.03000	0.30953	0.01477	0.00572	13	-0.98	036.04	1
038	Molybdenum (mg / kg (ppm))	0555	0.86880	0.04240	1.7294	0.25475	0.06356	15	-3.38	038.42	0
038	Molybdenum (mg / kg (ppm))	0555	0.93000	0.04000	1.7294	0.25475	0.06356	15	-3.14	038.52	0
038	Molybdenum (mg / kg (ppm))	0047	1.1750	0.21000	1.7294	0.25475	0.06356	15	-2.18	038.52	0
038	Molybdenum (mg / kg (ppm))	0098	1.1825	0.02900	1.7294	0.25475	0.06356	15	-2.15	038.53	0
038	Molybdenum (mg / kg (ppm))	0042	1.4550	0.03000	1.7294	0.25475	0.06356	15	-1.08	038.42	0
038	Molybdenum (mg / kg (ppm))	0918	1.4562	0.04650	1.7294	0.25475	0.06356	15	-1.07	038.53	0
038	Molybdenum (mg / kg (ppm))	0208	1.8400	0.04000	1.7294	0.25475	0.06356	15	0.43	038.41	0
038	Molybdenum (mg / kg (ppm))	0563	1.8500	0.08000	1.7294	0.25475	0.06356	15	0.47	038.34	0
038	Molybdenum (mg / kg (ppm))	0407	1.9385	0.08550	1.7294	0.25475	0.06356	15	0.82	038.41	0
038	Molybdenum (mg / kg (ppm))	0226	2.0550	0.05000	1.7294	0.25475	0.06356	15	1.28	038.41	0
038	Molybdenum (mg / kg (ppm))	0226	2.0550	0.05000	1.7294	0.25475	0.06356	15	1.28	038.42	0
038	Molybdenum (mg / kg (ppm))	0510	2.1500	0.10000	1.7294	0.25475	0.06356	15	1.65	038.43	0
038	Molybdenum (mg / kg (ppm))	2033	2.2150	0.03000	1.7294	0.25475	0.06356	15	1.91	038.43	0
038	Molybdenum (mg / kg (ppm))	0033	2.3200	0.02000	1.7294	0.25475	0.06356	15	2.32	038.53	0
038	Molybdenum (mg / kg (ppm))	0010	2.4500	0.10000	1.7294	0.25475	0.06356	15	2.83	038.53	0
038	Molybdenum (mg / kg (ppm))	0553	1.7800	0.42000	1.7294	0.25475	0.06356	15	0.20	038.53	1
041	Vanadium (mg / kg (ppm))	0619	6.5100	0.02000	9.8081	1.1127	0.40625	8	-2.96	041.41	0
041	Vanadium (mg / kg (ppm))	2033	8.5900	1.0600	9.8081	1.1127	0.40625	8	-1.09	041.43	0
041	Vanadium (mg / kg (ppm))	0278	8.6050	0.19000	9.8081	1.1127	0.40625	8	-1.08	041.43	0
041	Vanadium (mg / kg (ppm))	0555	8.9000	0.40000	9.8081	1.1127	0.40625	8	-0.82	041.52	0
041	Vanadium (mg / kg (ppm))	0098	10.760	0.78000	9.8081	1.1127	0.40625	8	0.86	041.43	0
041	Vanadium (mg / kg (ppm))	0553	11.150	0.30000	9.8081	1.1127	0.40625	8	1.21	041.53	0
041	Vanadium (mg / kg (ppm))	0047	11.200	0.20000	9.8081	1.1127	0.40625	8	1.25	041.52	0
041	Vanadium (mg / kg (ppm))	0563	12.750	0.30000	9.8081	1.1127	0.40625	8	2.64	041.34	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs			
516	Arsenic, total (mg / kg (ppm))	0619	4.8050	0.31000	49.775	4.4222	2.4479	17	-10.17	516.43	0
516	Arsenic, total (mg / kg (ppm))	0596	5.6700	0.80000	49.775	4.4222	2.4479	17	-9.97	516.34	0
516	Arsenic, total (mg / kg (ppm))	0278	42.250	1.2400	49.775	4.4222	2.4479	17	-1.70	516.43	0
516	Arsenic, total (mg / kg (ppm))	0098	44.170	2.8000	49.775	4.4222	2.4479	17	-1.27	516.53	0
516	Arsenic, total (mg / kg (ppm))	0042	46.000	2.6000	49.775	4.4222	2.4479	17	-0.85	516.42	0
516	Arsenic, total (mg / kg (ppm))	0033	46.250	3.5000	49.775	4.4222	2.4479	17	-0.80	516.53	0
516	Arsenic, total (mg / kg (ppm))	0208	49.150	2.3000	49.775	4.4222	2.4479	17	-0.14	516.52	0
516	Arsenic, total (mg / kg (ppm))	0227	50.200	5.4000	49.775	4.4222	2.4479	17	0.10	516.53	0
516	Arsenic, total (mg / kg (ppm))	0555	50.500	1.0000	49.775	4.4222	2.4479	17	0.16	516.42	0
516	Arsenic, total (mg / kg (ppm))	0918	50.889	3.4614	49.775	4.4222	2.4479	17	0.25	516.53	0
516	Arsenic, total (mg / kg (ppm))	2033	51.700	5.2000	49.775	4.4222	2.4479	17	0.44	516.53	0
516	Arsenic, total (mg / kg (ppm))	0010	53.100	9.8000	49.775	4.4222	2.4479	17	0.75	516.53	0
516	Arsenic, total (mg / kg (ppm))	0644	54.040	0.00000	49.775	4.4222	2.4479	17	0.96	516.53	0
516	Arsenic, total (mg / kg (ppm))	0555	55.000	2.0000	49.775	4.4222	2.4479	17	1.18	516.52	0
516	Arsenic, total (mg / kg (ppm))	0425	56.580	0.00000	49.775	4.4222	2.4479	17	1.54	516.43	0
516	Arsenic, total (mg / kg (ppm))	0047	57.650	0.90000	49.775	4.4222	2.4479	17	1.78	516.52	0
516	Arsenic, total (mg / kg (ppm))	0563	62.068	0.30290	49.775	4.4222	2.4479	17	2.78	516.00	0
516	Arsenic, total (mg / kg (ppm))	0553	60.350	13.100	49.775	4.4222	2.4479	17	2.39	516.53	1
518	Cadmium (mg / kg (ppm))	0596	0.15500	0.03000	52.933	4.6595	2.1902	20	-11.33	518.34	0
518	Cadmium (mg / kg (ppm))	0619	37.200	4.8000	52.933	4.6595	2.1902	20	-3.38	518.41	0
518	Cadmium (mg / kg (ppm))	0278	40.275	0.77000	52.933	4.6595	2.1902	20	-2.72	518.43	0
518	Cadmium (mg / kg (ppm))	0407	44.796	2.7641	52.933	4.6595	2.1902	20	-1.75	518.41	0
518	Cadmium (mg / kg (ppm))	0563	47.850	0.30000	52.933	4.6595	2.1902	20	-1.09	518.34	0
518	Cadmium (mg / kg (ppm))	2058	48.440	0.72000	52.933	4.6595	2.1902	20	-0.96	518.43	0
518	Cadmium (mg / kg (ppm))	0042	51.250	6.7000	52.933	4.6595	2.1902	20	-0.36	518.42	0
518	Cadmium (mg / kg (ppm))	0098	53.950	0.90000	52.933	4.6595	2.1902	20	0.22	518.53	0
518	Cadmium (mg / kg (ppm))	0918	54.230	2.8492	52.933	4.6595	2.1902	20	0.28	518.43	0
518	Cadmium (mg / kg (ppm))	0555	54.500	1.0000	52.933	4.6595	2.1902	20	0.34	518.42	0
518	Cadmium (mg / kg (ppm))	0047	54.500	1.6000	52.933	4.6595	2.1902	20	0.34	518.52	0
518	Cadmium (mg / kg (ppm))	0033	55.150	3.1000	52.933	4.6595	2.1902	20	0.48	518.53	0
518	Cadmium (mg / kg (ppm))	2033	55.550	4.5000	52.933	4.6595	2.1902	20	0.56	518.53	0
518	Cadmium (mg / kg (ppm))	0227	55.925	1.4700	52.933	4.6595	2.1902	20	0.64	518.53	0
518	Cadmium (mg / kg (ppm))	0208	56.150	0.10000	52.933	4.6595	2.1902	20	0.69	518.52	0
518	Cadmium (mg / kg (ppm))	0555	58.500	1.0000	52.933	4.6595	2.1902	20	1.19	518.52	0
518	Cadmium (mg / kg (ppm))	0010	58.600	3.2000	52.933	4.6595	2.1902	20	1.22	518.53	0
518	Cadmium (mg / kg (ppm))	0644	59.660	0.00000	52.933	4.6595	2.1902	20	1.44	518.53	0
518	Cadmium (mg / kg (ppm))	0425	61.130	0.00000	52.933	4.6595	2.1902	20	1.76	518.43	0
518	Cadmium (mg / kg (ppm))	0553	61.700	8.0000	52.933	4.6595	2.1902	20	1.88	518.53	0
520	Chromium (mg / kg (ppm))	0555	155.00	10.000	234.88	16.522	14.693	17	-4.83	520.52	0
520	Chromium (mg / kg (ppm))	0563	197.68	1.0000	234.88	16.522	14.693	17	-2.25	520.31	0
520	Chromium (mg / kg (ppm))	0619	201.00	4.0000	234.88	16.522	14.693	17	-2.05	520.41	0
520	Chromium (mg / kg (ppm))	0042	206.50	11.000	234.88	16.522	14.693	17	-1.72	520.42	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs			
520	Chromium (mg / kg (ppm))	0227	221.00	14.000	234.88	16.522	14.693	17	-0.84	520.31	0
520	Chromium (mg / kg (ppm))	0278	225.23	2.2800	234.88	16.522	14.693	17	-0.58	520.43	0
520	Chromium (mg / kg (ppm))	0010	229.50	13.000	234.88	16.522	14.693	17	-0.33	520.53	0
520	Chromium (mg / kg (ppm))	0918	233.32	3.7198	234.88	16.522	14.693	17	-0.09	520.53	0
520	Chromium (mg / kg (ppm))	2058	234.12	43.780	234.88	16.522	14.693	17	-0.05	520.43	0
520	Chromium (mg / kg (ppm))	2033	237.00	52.000	234.88	16.522	14.693	17	0.13	520.43	0
520	Chromium (mg / kg (ppm))	0510	246.65	3.3000	234.88	16.522	14.693	17	0.71	520.43	0
520	Chromium (mg / kg (ppm))	0208	247.50	17.000	234.88	16.522	14.693	17	0.76	520.41	0
520	Chromium (mg / kg (ppm))	0047	251.75	10.700	234.88	16.522	14.693	17	1.02	520.52	0
520	Chromium (mg / kg (ppm))	0033	257.00	48.000	234.88	16.522	14.693	17	1.34	520.53	0
520	Chromium (mg / kg (ppm))	0098	261.00	2.0000	234.88	16.522	14.693	17	1.58	520.43	0
520	Chromium (mg / kg (ppm))	0553	274.00	14.000	234.88	16.522	14.693	17	2.37	520.53	0
520	Chromium (mg / kg (ppm))	0425	283.19	0.00000	234.88	16.522	14.693	17	2.92	520.43	0
526	Lead (mg / kg (ppm))	0619	0.33600	0.02400	1.0414	0.16558	0.04022	16	-4.26	526.41	0
526	Lead (mg / kg (ppm))	0407	0.60650	0.05160	1.0414	0.16558	0.04022	16	-2.63	526.41	0
526	Lead (mg / kg (ppm))	2058	0.67500	0.03000	1.0414	0.16558	0.04022	16	-2.21	526.53	0
526	Lead (mg / kg (ppm))	0278	0.78500	0.01000	1.0414	0.16558	0.04022	16	-1.55	526.43	0
526	Lead (mg / kg (ppm))	0047	0.89000	0.02000	1.0414	0.16558	0.04022	16	-0.91	526.52	0
526	Lead (mg / kg (ppm))	2033	0.93850	0.10900	1.0414	0.16558	0.04022	16	-0.62	526.53	0
526	Lead (mg / kg (ppm))	0033	0.96500	0.03000	1.0414	0.16558	0.04022	16	-0.46	526.53	0
526	Lead (mg / kg (ppm))	0555	0.98500	0.03000	1.0414	0.16558	0.04022	16	-0.34	526.52	0
526	Lead (mg / kg (ppm))	0098	0.99550	0.06900	1.0414	0.16558	0.04022	16	-0.28	526.53	0
526	Lead (mg / kg (ppm))	0227	1.0360	0.09000	1.0414	0.16558	0.04022	16	-0.03	526.53	0
526	Lead (mg / kg (ppm))	0918	1.1250	0.00910	1.0414	0.16558	0.04022	16	0.50	526.53	0
526	Lead (mg / kg (ppm))	0553	1.1250	0.09000	1.0414	0.16558	0.04022	16	0.50	526.53	0
526	Lead (mg / kg (ppm))	0208	1.1300	0.08000	1.0414	0.16558	0.04022	16	0.53	526.52	0
526	Lead (mg / kg (ppm))	0425	1.6900	0.00000	1.0414	0.16558	0.04022	16	3.92	526.43	0
526	Lead (mg / kg (ppm))	0563	3.0112	0.00080	1.0414	0.16558	0.04022	16	11.90	526.34	0
526	Lead (mg / kg (ppm))	0644	7.4800	0.00000	1.0414	0.16558	0.04022	16	38.89	526.53	0
526	Lead (mg / kg (ppm))	0010	1.2000	0.20000	1.0414	0.16558	0.04022	16	0.96	526.53	1
529	Mercury (µg / kg (ppb))	0098	35.000	10.000	58.482	12.866	3.7375	8	-1.83	529.00	0
529	Mercury (µg / kg (ppb))	2033	43.000	4.0000	58.482	12.866	3.7375	8	-1.20	529.99	0
529	Mercury (µg / kg (ppb))	0208	50.450	1.7000	58.482	12.866	3.7375	8	-0.62	529.99	0
529	Mercury (µg / kg (ppb))	0644	51.000	0.00000	58.482	12.866	3.7375	8	-0.58	529.99	0
529	Mercury (µg / kg (ppb))	0553	51.100	4.2000	58.482	12.866	3.7375	8	-0.57	529.99	0
529	Mercury (µg / kg (ppb))	0918	61.000	10.000	58.482	12.866	3.7375	8	0.20	529.99	0
529	Mercury (µg / kg (ppb))	0563	84.000	0.00000	58.482	12.866	3.7375	8	1.98	529.99	0
529	Mercury (µg / kg (ppb))	0425	178.00	0.00000	58.482	12.866	3.7375	8	9.29	529.00	0
529	Mercury (µg / kg (ppb))	0227	0.04100	0.00200	58.482	12.866	3.7375	8	-4.54	529.99	3
529	Mercury (µg / kg (ppb))	0010	0.05550	0.00300	58.482	12.866	3.7375	8	-4.54	529.99	3
529	Mercury (µg / kg (ppb))	0047	0.09300	0.01000	58.482	12.866	3.7375	8	-4.54	529.99	3
539	Nickel (mg / kg (ppm))	0278	43.640	0.08000	56.782	4.9457	1.7552	13	-2.66	539.43	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs			
539	Nickel (mg / kg (ppm))	0098	49.900	2.8000	56.782	4.9457	1.7552	13	-1.39	539.53	0
539	Nickel (mg / kg (ppm))	0042	50.250	1.5000	56.782	4.9457	1.7552	13	-1.32	539.42	0
539	Nickel (mg / kg (ppm))	0407	51.300	0.98000	56.782	4.9457	1.7552	13	-1.11	539.41	0
539	Nickel (mg / kg (ppm))	2033	54.950	0.30000	56.782	4.9457	1.7552	13	-0.37	539.43	0
539	Nickel (mg / kg (ppm))	0227	55.600	0.40000	56.782	4.9457	1.7552	13	-0.24	539.31	0
539	Nickel (mg / kg (ppm))	0425	57.280	0.00000	56.782	4.9457	1.7552	13	0.10	539.43	0
539	Nickel (mg / kg (ppm))	0208	58.050	3.9000	56.782	4.9457	1.7552	13	0.26	539.41	0
539	Nickel (mg / kg (ppm))	0555	60.500	3.0000	56.782	4.9457	1.7552	13	0.75	539.52	0
539	Nickel (mg / kg (ppm))	0918	61.424	1.7075	56.782	4.9457	1.7552	13	0.94	539.53	0
539	Nickel (mg / kg (ppm))	0047	62.955	1.2500	56.782	4.9457	1.7552	13	1.25	539.52	0
539	Nickel (mg / kg (ppm))	0010	63.000	6.0000	56.782	4.9457	1.7552	13	1.26	539.53	0
539	Nickel (mg / kg (ppm))	0553	66.450	0.90000	56.782	4.9457	1.7552	13	1.95	539.53	0

Notes: Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = Rejected for duplicates too far apart, 2 = Rejected as outlier, 8 = Analyst data exempt and 4 = zeros submitted as values. Robust statistics not used if < 6 labs reporting, in this case the Z Scores may be included for information only (Grey, No Action!). Flag 3 indicates not used in statistics.