



**AAFCO**  
Proficiency Testing Program



**Bone Meal**

**Minerals Scheme**

**# Labs Reporting: 27**

**Test Material Code # 201854**

**Analyte Proficiency Testing Report**

**Issue Date : 01/31/2019**

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
015	Aluminum (mg / kg (ppm))	0278	96.94	5.240	211.5	15.11	9.686	16	-7.58	015.43	0
015	Aluminum (mg / kg (ppm))	0353	142.5	1.000	211.5	15.11	9.686	16	-4.57	015.43	0
015	Aluminum (mg / kg (ppm))	0407	189.4	0.3939	211.5	15.11	9.686	16	-1.46	015.41	0
015	Aluminum (mg / kg (ppm))	0510	192.5	5.000	211.5	15.11	9.686	16	-1.26	015.43	0
015	Aluminum (mg / kg (ppm))	0227	204.0	8.000	211.5	15.11	9.686	16	-0.50	015.41	0
015	Aluminum (mg / kg (ppm))	0218	205.0	30.00	211.5	15.11	9.686	16	-0.43	015.43	0
015	Aluminum (mg / kg (ppm))	0186	207.0	4.000	211.5	15.11	9.686	16	-0.30	015.52	0
015	Aluminum (mg / kg (ppm))	0208	211.5	1.000	211.5	15.11	9.686	16	0.00	015.41	0
015	Aluminum (mg / kg (ppm))	2058	212.8	9.230	211.5	15.11	9.686	16	0.09	015.43	0
015	Aluminum (mg / kg (ppm))	0098	215.3	4.000	211.5	15.11	9.686	16	0.25	015.43	0
015	Aluminum (mg / kg (ppm))	0553	218.5	9.000	211.5	15.11	9.686	16	0.46	015.53	0
015	Aluminum (mg / kg (ppm))	2033	226.3	11.50	211.5	15.11	9.686	16	0.98	015.43	0
015	Aluminum (mg / kg (ppm))	0918	234.5	17.31	211.5	15.11	9.686	16	1.52	015.53	0
015	Aluminum (mg / kg (ppm))	0870	235.0	7.194	211.5	15.11	9.686	16	1.56	015.43	0
015	Aluminum (mg / kg (ppm))	0042	238.5	39.00	211.5	15.11	9.686	16	1.79	015.43	0
015	Aluminum (mg / kg (ppm))	2207	241.3	3.100	211.5	15.11	9.686	16	1.97	015.52	0
017	Boron (mg / kg (ppm))	0407	114.9	0.6895	146.2	11.04	5.205	10	-2.83	017.41	0
017	Boron (mg / kg (ppm))	0553	125.0	18.00	146.2	11.04	5.205	10	-1.92	017.53	0
017	Boron (mg / kg (ppm))	0353	137.5	5.000	146.2	11.04	5.205	10	-0.79	017.43	0
017	Boron (mg / kg (ppm))	0510	141.0	2.000	146.2	11.04	5.205	10	-0.47	017.43	0
017	Boron (mg / kg (ppm))	0098	144.6	0.1000	146.2	11.04	5.205	10	-0.15	017.43	0
017	Boron (mg / kg (ppm))	0218	155.0	10.00	146.2	11.04	5.205	10	0.80	017.43	0
017	Boron (mg / kg (ppm))	0918	156.9	1.660	146.2	11.04	5.205	10	0.97	017.43	0
017	Boron (mg / kg (ppm))	2033	158.3	6.500	146.2	11.04	5.205	10	1.09	017.43	0
017	Boron (mg / kg (ppm))	2207	158.4	1.900	146.2	11.04	5.205	10	1.10	017.52	0
017	Boron (mg / kg (ppm))	0870	164.9	6.200	146.2	11.04	5.205	10	1.69	017.43	0
021	Cobalt (mg / kg (ppm))	2141	0.0321	0.0130	0.1958	0.0400	0.0195	11	-4.09	021.43	0
021	Cobalt (mg / kg (ppm))	0510	0.1150	0.0100	0.1958	0.0400	0.0195	11	-2.02	021.43	0
021	Cobalt (mg / kg (ppm))	2113	0.1450	0.0100	0.1958	0.0400	0.0195	11	-1.27	021.52	0
021	Cobalt (mg / kg (ppm))	0033	0.1450	0.0100	0.1958	0.0400	0.0195	11	-1.27	021.53	0
021	Cobalt (mg / kg (ppm))	0553	0.1525	0.0150	0.1958	0.0400	0.0195	11	-1.08	021.53	0
021	Cobalt (mg / kg (ppm))	2207	0.1800	0.0200	0.1958	0.0400	0.0195	11	-0.40	021.52	0
021	Cobalt (mg / kg (ppm))	0218	0.1800	0.0000	0.1958	0.0400	0.0195	11	-0.40	021.53	0
021	Cobalt (mg / kg (ppm))	2033	0.2000	0.1000	0.1958	0.0400	0.0195	11	0.10	021.43	0
021	Cobalt (mg / kg (ppm))	0918	0.3020	0.0003	0.1958	0.0400	0.0195	11	2.65	021.53	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
021	Cobalt (mg / kg (ppm))	0870	0.3358	0.0202	0.1958	0.0400	0.0195	11	3.50	021.43	0
021	Cobalt (mg / kg (ppm))	0407	0.4881	0.0155	0.1958	0.0400	0.0195	11	7.30	021.41	0
021	Cobalt (mg / kg (ppm))	0227	1.150	0.5000	0.1958	0.0400	0.0195	11	23.83	021.31	1
021	Cobalt (mg / kg (ppm))	0098	< 0.239		0.1958	0.0400	0.0195	11		021.43	5
021	Cobalt (mg / kg (ppm))	0218	< 2		0.1958	0.0400	0.0195	11		021.43	5
022	Copper (mg / kg (ppm))	2058	137.1	8.620	174.2	12.82	6.264	24	-2.90	022.43	0
022	Copper (mg / kg (ppm))	0511	147.5	9.000	174.2	12.82	6.264	24	-2.08	022.41	0
022	Copper (mg / kg (ppm))	0407	156.1	0.0033	174.2	12.82	6.264	24	-1.41	022.41	0
022	Copper (mg / kg (ppm))	0353	159.5	1.000	174.2	12.82	6.264	24	-1.15	022.43	0
022	Copper (mg / kg (ppm))	0202	159.6	0.3130	174.2	12.82	6.264	24	-1.14	022.43	0
022	Copper (mg / kg (ppm))	0218	165.0	10.00	174.2	12.82	6.264	24	-0.72	022.43	0
022	Copper (mg / kg (ppm))	0227	166.0	12.00	174.2	12.82	6.264	24	-0.64	022.41	0
022	Copper (mg / kg (ppm))	0098	166.5	7.300	174.2	12.82	6.264	24	-0.61	022.53	0
022	Copper (mg / kg (ppm))	0186	167.5	3.000	174.2	12.82	6.264	24	-0.52	022.52	0
022	Copper (mg / kg (ppm))	0510	173.0	0.0000	174.2	12.82	6.264	24	-0.10	022.43	0
022	Copper (mg / kg (ppm))	2207	174.1	3.200	174.2	12.82	6.264	24	-0.01	022.52	0
022	Copper (mg / kg (ppm))	0042	175.0	14.00	174.2	12.82	6.264	24	0.06	022.43	0
022	Copper (mg / kg (ppm))	0218	175.0	10.00	174.2	12.82	6.264	24	0.06	022.53	0
022	Copper (mg / kg (ppm))	0208	175.7	3.700	174.2	12.82	6.264	24	0.11	022.41	0
022	Copper (mg / kg (ppm))	0208	177.0	12.00	174.2	12.82	6.264	24	0.22	022.31	0
022	Copper (mg / kg (ppm))	0918	177.5	20.82	174.2	12.82	6.264	24	0.26	022.53	0
022	Copper (mg / kg (ppm))	0186	180.0	6.000	174.2	12.82	6.264	24	0.45	022.42	0
022	Copper (mg / kg (ppm))	2113	180.0	0.0000	174.2	12.82	6.264	24	0.45	022.52	0
022	Copper (mg / kg (ppm))	2114	182.6	0.6500	174.2	12.82	6.264	24	0.65	022.99	0
022	Copper (mg / kg (ppm))	0010	188.5	5.000	174.2	12.82	6.264	24	1.11	022.33	0
022	Copper (mg / kg (ppm))	0017	191.8	9.101	174.2	12.82	6.264	24	1.37	022.43	0
022	Copper (mg / kg (ppm))	0870	195.5	1.030	174.2	12.82	6.264	24	1.66	022.43	0
022	Copper (mg / kg (ppm))	2033	195.8	12.50	174.2	12.82	6.264	24	1.68	022.43	0
022	Copper (mg / kg (ppm))	2141	208.7	1.110	174.2	12.82	6.264	24	2.69	022.43	0
022	Copper (mg / kg (ppm))	0553	169.5	37.00	174.2	12.82	6.264	24	-0.37	022.53	1
023	Fluorine (mg / kg (ppm))	2033	40.35	0.3000				1		023.01	0
024	Iodine (mg / kg (ppm))	2033	0.1700	0.0000				3		024.53	0
024	Iodine (mg / kg (ppm))	0208	124.5	3.000				3		024.99	0
024	Iodine (mg / kg (ppm))	0186	154.5	3.000				3		024.52	0
034	Selenium (mg / kg (ppm))	2058	2.760	0.3600	3.363	0.4483	0.3255	17	-1.35	034.53	0
034	Selenium (mg / kg (ppm))	2114	2.876	0.2700	3.363	0.4483	0.3255	17	-1.09	034.43	0
034	Selenium (mg / kg (ppm))	0353	3.000	0.0000	3.363	0.4483	0.3255	17	-0.81	034.43	0
034	Selenium (mg / kg (ppm))	0098	3.159	0.4000	3.363	0.4483	0.3255	17	-0.46	034.53	0
034	Selenium (mg / kg (ppm))	0227	3.180	0.1600	3.363	0.4483	0.3255	17	-0.41	034.51	0
034	Selenium (mg / kg (ppm))	2033	3.320	0.0600	3.363	0.4483	0.3255	17	-0.10	034.53	0
034	Selenium (mg / kg (ppm))	0186	3.350	0.3200	3.363	0.4483	0.3255	17	-0.03	034.52	0
034	Selenium (mg / kg (ppm))	0218	3.350	0.5000	3.363	0.4483	0.3255	17	-0.03	034.53	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
034	Selenium (mg / kg (ppm))	0553	3.450	0.2600	3.363	0.4483	0.3255	17	0.19	034.53	0
034	Selenium (mg / kg (ppm))	0033	3.465	0.2300	3.363	0.4483	0.3255	17	0.23	034.53	0
034	Selenium (mg / kg (ppm))	0208	3.480	0.2800	3.363	0.4483	0.3255	17	0.26	034.52	0
034	Selenium (mg / kg (ppm))	2207	3.500	0.6000	3.363	0.4483	0.3255	17	0.30	034.52	0
034	Selenium (mg / kg (ppm))	0010	3.500	1.000	3.363	0.4483	0.3255	17	0.30	034.53	0
034	Selenium (mg / kg (ppm))	0870	3.509	0.0220	3.363	0.4483	0.3255	17	0.32	034.43	0
034	Selenium (mg / kg (ppm))	0407	3.517	0.5267	3.363	0.4483	0.3255	17	0.34	034.43	0
034	Selenium (mg / kg (ppm))	0918	3.733	0.0636	3.363	0.4483	0.3255	17	0.83	034.53	0
034	Selenium (mg / kg (ppm))	2141	4.975	0.4810	3.363	0.4483	0.3255	17	3.59	034.43	0
034	Selenium (mg / kg (ppm))	0218	< 22		3.363	0.4483	0.3255	17		034.43	5
036	Sulfur (%)	2141	0.4318	0.0174	0.5554	0.0243	0.0188	16	-5.09	036.43	0
036	Sulfur (%)	0407	0.4767	0.0420	0.5554	0.0243	0.0188	16	-3.24	036.42	0
036	Sulfur (%)	0870	0.4826	0.0257	0.5554	0.0243	0.0188	16	-3.00	036.42	0
036	Sulfur (%)	0353	0.5300	0.0200	0.5554	0.0243	0.0188	16	-1.05	036.43	0
036	Sulfur (%)	0098	0.5320	0.0120	0.5554	0.0243	0.0188	16	-0.96	036.43	0
036	Sulfur (%)	0227	0.5400	0.0000	0.5554	0.0243	0.0188	16	-0.63	036.43	0
036	Sulfur (%)	0186	0.5400	0.0200	0.5554	0.0243	0.0188	16	-0.63	036.52	0
036	Sulfur (%)	2207	0.5450	0.0100	0.5554	0.0243	0.0188	16	-0.43	036.42	0
036	Sulfur (%)	0202	0.5480	0.0180	0.5554	0.0243	0.0188	16	-0.30	036.43	0
036	Sulfur (%)	0553	0.5525	0.0230	0.5554	0.0243	0.0188	16	-0.12	036.53	0
036	Sulfur (%)	0208	0.5770	0.0420	0.5554	0.0243	0.0188	16	0.89	036.00	0
036	Sulfur (%)	0218	0.5800	0.0000	0.5554	0.0243	0.0188	16	1.01	036.43	0
036	Sulfur (%)	0918	0.5820	0.0120	0.5554	0.0243	0.0188	16	1.10	036.43	0
036	Sulfur (%)	0510	0.6350	0.0100	0.5554	0.0243	0.0188	16	3.28	036.43	0
036	Sulfur (%)	0186	0.7050	0.0380	0.5554	0.0243	0.0188	16	6.17	036.42	0
036	Sulfur (%)	2033	0.7350	0.0100	0.5554	0.0243	0.0188	16	7.40	036.43	0
038	Molybdenum (mg / kg (ppm))	0042	117.5	3.000	130.3	10.02	6.217	16	-1.28	038.43	0
038	Molybdenum (mg / kg (ppm))	0510	123.9	2.600	130.3	10.02	6.217	16	-0.64	038.43	0
038	Molybdenum (mg / kg (ppm))	0407	124.0	7.742	130.3	10.02	6.217	16	-0.63	038.41	0
038	Molybdenum (mg / kg (ppm))	0208	124.5	7.000	130.3	10.02	6.217	16	-0.58	038.41	0
038	Molybdenum (mg / kg (ppm))	0098	124.6	12.10	130.3	10.02	6.217	16	-0.57	038.53	0
038	Molybdenum (mg / kg (ppm))	2141	125.7	3.040	130.3	10.02	6.217	16	-0.46	038.43	0
038	Molybdenum (mg / kg (ppm))	0010	128.1	9.100	130.3	10.02	6.217	16	-0.22	038.53	0
038	Molybdenum (mg / kg (ppm))	2033	129.8	6.500	130.3	10.02	6.217	16	-0.05	038.43	0
038	Molybdenum (mg / kg (ppm))	0218	130.0	0.0000	130.3	10.02	6.217	16	-0.03	038.53	0
038	Molybdenum (mg / kg (ppm))	0033	132.0	18.00	130.3	10.02	6.217	16	0.17	038.53	0
038	Molybdenum (mg / kg (ppm))	0553	132.0	4.000	130.3	10.02	6.217	16	0.17	038.53	0
038	Molybdenum (mg / kg (ppm))	0227	134.0	0.0000	130.3	10.02	6.217	16	0.37	038.51	0
038	Molybdenum (mg / kg (ppm))	2113	135.0	10.00	130.3	10.02	6.217	16	0.47	038.52	0
038	Molybdenum (mg / kg (ppm))	0918	138.9	5.482	130.3	10.02	6.217	16	0.86	038.53	0
038	Molybdenum (mg / kg (ppm))	0218	145.0	10.00	130.3	10.02	6.217	16	1.47	038.43	0
038	Molybdenum (mg / kg (ppm))	0353	177.5	0.9100	130.3	10.02	6.217	16	4.72	038.43	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
038	Molybdenum (mg / kg (ppm))	2207	126.7	32.90	130.3	10.02	6.217	16	-0.36	038.52	1
041	Vanadium (mg / kg (ppm))	0553	0.2915	0.0210	0.3440	0.0646	0.0290	4		041.53	0
041	Vanadium (mg / kg (ppm))	2207	0.3000	0.0000	0.3440	0.0646	0.0290	4		041.52	0
041	Vanadium (mg / kg (ppm))	0098	0.3545	0.0550	0.3440	0.0646	0.0290	4		041.43	0
041	Vanadium (mg / kg (ppm))	0218	0.4300	0.0400	0.3440	0.0646	0.0290	4		041.53	0
041	Vanadium (mg / kg (ppm))	2033	< 0.2		0.3440	0.0646	0.0290	4		041.43	5
041	Vanadium (mg / kg (ppm))	0218	< 2		0.3440	0.0646	0.0290	4		041.43	5
516	Arsenic, Total (mg / kg (ppm))	0425	17.10	0.4000	29.49	2.835	1.761	22	-4.37	516.34	0
516	Arsenic, Total (mg / kg (ppm))	0656	19.49	2.860	29.49	2.835	1.761	22	-3.53	516.00	0
516	Arsenic, Total (mg / kg (ppm))	0683	19.64	0.1000	29.49	2.835	1.761	22	-3.48	516.00	0
516	Arsenic, Total (mg / kg (ppm))	2058	24.96	2.800	29.49	2.835	1.761	22	-1.60	516.43	0
516	Arsenic, Total (mg / kg (ppm))	0278	25.38	2.300	29.49	2.835	1.761	22	-1.45	516.43	0
516	Arsenic, Total (mg / kg (ppm))	0218	27.50	7.000	29.49	2.835	1.761	22	-0.70	516.43	0
516	Arsenic, Total (mg / kg (ppm))	0186	28.10	0.0000	29.49	2.835	1.761	22	-0.49	516.52	0
516	Arsenic, Total (mg / kg (ppm))	0918	28.16	1.853	29.49	2.835	1.761	22	-0.47	516.53	0
516	Arsenic, Total (mg / kg (ppm))	0407	29.03	2.467	29.49	2.835	1.761	22	-0.16	516.43	0
516	Arsenic, Total (mg / kg (ppm))	0033	29.85	0.1000	29.49	2.835	1.761	22	0.13	516.53	0
516	Arsenic, Total (mg / kg (ppm))	2033	29.96	0.6100	29.49	2.835	1.761	22	0.16	516.53	0
516	Arsenic, Total (mg / kg (ppm))	2141	30.98	1.340	29.49	2.835	1.761	22	0.52	516.43	0
516	Arsenic, Total (mg / kg (ppm))	2113	31.00	6.000	29.49	2.835	1.761	22	0.53	516.52	0
516	Arsenic, Total (mg / kg (ppm))	0208	31.30	0.2000	29.49	2.835	1.761	22	0.64	516.52	0
516	Arsenic, Total (mg / kg (ppm))	2114	31.34	0.2180	29.49	2.835	1.761	22	0.65	516.43	0
516	Arsenic, Total (mg / kg (ppm))	2207	31.35	1.500	29.49	2.835	1.761	22	0.66	516.52	0
516	Arsenic, Total (mg / kg (ppm))	0227	31.65	0.1000	29.49	2.835	1.761	22	0.76	516.53	0
516	Arsenic, Total (mg / kg (ppm))	0098	32.02	0.4900	29.49	2.835	1.761	22	0.89	516.53	0
516	Arsenic, Total (mg / kg (ppm))	0010	33.30	1.800	29.49	2.835	1.761	22	1.34	516.53	0
516	Arsenic, Total (mg / kg (ppm))	0218	33.50	5.000	29.49	2.835	1.761	22	1.41	516.53	0
516	Arsenic, Total (mg / kg (ppm))	0870	33.54	0.6000	29.49	2.835	1.761	22	1.43	516.43	0
516	Arsenic, Total (mg / kg (ppm))	0042	43.30	1.000	29.49	2.835	1.761	22	4.87	516.43	0
518	Cadmium (mg / kg (ppm))	0278	0.4269	0.0131	0.7165	0.1205	0.0422	21	-2.40	518.43	0
518	Cadmium (mg / kg (ppm))	0407	0.4929	0.0324	0.7165	0.1205	0.0422	21	-1.86	518.41	0
518	Cadmium (mg / kg (ppm))	2114	0.5435	0.0210	0.7165	0.1205	0.0422	21	-1.44	518.99	0
518	Cadmium (mg / kg (ppm))	2141	0.6245	0.0030	0.7165	0.1205	0.0422	21	-0.76	518.43	0
518	Cadmium (mg / kg (ppm))	0098	0.6355	0.0250	0.7165	0.1205	0.0422	21	-0.67	518.53	0
518	Cadmium (mg / kg (ppm))	2033	0.6450	0.0100	0.7165	0.1205	0.0422	21	-0.59	518.53	0
518	Cadmium (mg / kg (ppm))	0186	0.6465	0.0530	0.7165	0.1205	0.0422	21	-0.58	518.52	0
518	Cadmium (mg / kg (ppm))	0425	0.6850	0.0900	0.7165	0.1205	0.0422	21	-0.26	518.34	0
518	Cadmium (mg / kg (ppm))	2113	0.6850	0.0100	0.7165	0.1205	0.0422	21	-0.26	518.52	0
518	Cadmium (mg / kg (ppm))	0010	0.6850	0.1100	0.7165	0.1205	0.0422	21	-0.26	518.53	0
518	Cadmium (mg / kg (ppm))	0208	0.6875	0.1170	0.7165	0.1205	0.0422	21	-0.24	518.52	0
518	Cadmium (mg / kg (ppm))	0553	0.6930	0.0280	0.7165	0.1205	0.0422	21	-0.20	518.53	0
518	Cadmium (mg / kg (ppm))	0218	0.6950	0.0100	0.7165	0.1205	0.0422	21	-0.18	518.53	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
518	Cadmium (mg / kg (ppm))	0033	0.7150	0.0300	0.7165	0.1205	0.0422	21	-0.01	518.53	0
518	Cadmium (mg / kg (ppm))	0227	0.7245	0.0530	0.7165	0.1205	0.0422	21	0.07	518.53	0
518	Cadmium (mg / kg (ppm))	2058	0.7800	0.0600	0.7165	0.1205	0.0422	21	0.53	518.53	0
518	Cadmium (mg / kg (ppm))	0042	0.8005	0.0730	0.7165	0.1205	0.0422	21	0.70	518.43	0
518	Cadmium (mg / kg (ppm))	0918	0.9509	0.0860	0.7165	0.1205	0.0422	21	1.94	518.53	0
518	Cadmium (mg / kg (ppm))	0870	1.190	0.0407	0.7165	0.1205	0.0422	21	3.93	518.43	0
518	Cadmium (mg / kg (ppm))	0511	2.000	0.0000	0.7165	0.1205	0.0422	21	10.65	518.41	0
518	Cadmium (mg / kg (ppm))	0683	2.460	0.0200	0.7165	0.1205	0.0422	21	14.47	518.31	0
518	Cadmium (mg / kg (ppm))	2207	0.8650	0.2300	0.7165	0.1205	0.0422	21	1.23	518.52	1
518	Cadmium (mg / kg (ppm))	0218	< 2		0.7165	0.1205	0.0422	21		518.43	5
520	Chromium (mg / kg (ppm))	2113	0.9000	0.0600	2.412	0.3380	0.3982	18	-4.47	520.52	0
520	Chromium (mg / kg (ppm))	0553	1.470	0.1000	2.412	0.3380	0.3982	18	-2.79	520.53	0
520	Chromium (mg / kg (ppm))	0278	1.482	0.0840	2.412	0.3380	0.3982	18	-2.75	520.43	0
520	Chromium (mg / kg (ppm))	0510	1.715	0.1100	2.412	0.3380	0.3982	18	-2.06	520.43	0
520	Chromium (mg / kg (ppm))	0033	1.745	0.3500	2.412	0.3380	0.3982	18	-1.97	520.53	0
520	Chromium (mg / kg (ppm))	2058	1.910	0.1000	2.412	0.3380	0.3982	18	-1.49	520.53	0
520	Chromium (mg / kg (ppm))	2141	2.320	0.2400	2.412	0.3380	0.3982	18	-0.27	520.43	0
520	Chromium (mg / kg (ppm))	2114	2.324	0.0130	2.412	0.3380	0.3982	18	-0.26	520.43	0
520	Chromium (mg / kg (ppm))	0918	2.439	0.2173	2.412	0.3380	0.3982	18	0.08	520.53	0
520	Chromium (mg / kg (ppm))	2207	2.500	0.0000	2.412	0.3380	0.3982	18	0.26	520.52	0
520	Chromium (mg / kg (ppm))	0098	2.545	0.2300	2.412	0.3380	0.3982	18	0.39	520.43	0
520	Chromium (mg / kg (ppm))	0407	2.550	0.6200	2.412	0.3380	0.3982	18	0.41	520.41	0
520	Chromium (mg / kg (ppm))	0227	2.650	0.1800	2.412	0.3380	0.3982	18	0.70	520.51	0
520	Chromium (mg / kg (ppm))	0218	2.700	0.4000	2.412	0.3380	0.3982	18	0.85	520.53	0
520	Chromium (mg / kg (ppm))	2033	3.250	2.300	2.412	0.3380	0.3982	18	2.48	520.43	0
520	Chromium (mg / kg (ppm))	0042	3.325	0.9900	2.412	0.3380	0.3982	18	2.70	520.43	0
520	Chromium (mg / kg (ppm))	0870	3.675	0.1728	2.412	0.3380	0.3982	18	3.74	520.43	0
520	Chromium (mg / kg (ppm))	0511	5.500	1.000	2.412	0.3380	0.3982	18	9.13	520.41	0
520	Chromium (mg / kg (ppm))	0010	5.250	4.100	2.412	0.3380	0.3982	18	8.39	520.53	1
520	Chromium (mg / kg (ppm))	0218	< 22		2.412	0.3380	0.3982	18		520.43	5
526	Lead (mg / kg (ppm))	0278	51.46	2.360	83.45	6.859	3.849	21	-4.66	526.43	0
526	Lead (mg / kg (ppm))	2058	70.18	4.180	83.45	6.859	3.849	21	-1.93	526.43	0
526	Lead (mg / kg (ppm))	2114	71.21	0.4220	83.45	6.859	3.849	21	-1.78	526.43	0
526	Lead (mg / kg (ppm))	2141	75.68	3.780	83.45	6.859	3.849	21	-1.13	526.43	0
526	Lead (mg / kg (ppm))	0010	77.55	3.900	83.45	6.859	3.849	21	-0.86	526.53	0
526	Lead (mg / kg (ppm))	0042	77.75	3.900	83.45	6.859	3.849	21	-0.83	526.43	0
526	Lead (mg / kg (ppm))	0407	79.40	2.989	83.45	6.859	3.849	21	-0.59	526.41	0
526	Lead (mg / kg (ppm))	0033	81.40	3.600	83.45	6.859	3.849	21	-0.30	526.53	0
526	Lead (mg / kg (ppm))	2033	82.72	0.2700	83.45	6.859	3.849	21	-0.11	526.53	0
526	Lead (mg / kg (ppm))	0218	83.00	2.000	83.45	6.859	3.849	21	-0.07	526.53	0
526	Lead (mg / kg (ppm))	0227	84.50	9.000	83.45	6.859	3.849	21	0.15	526.53	0
526	Lead (mg / kg (ppm))	0683	84.66	0.8400	83.45	6.859	3.849	21	0.18	526.31	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
526	Lead (mg / kg (ppm))	2207	85.95	1.900	83.45	6.859	3.849	21	0.36	526.52	0
526	Lead (mg / kg (ppm))	0098	87.20	4.000	83.45	6.859	3.849	21	0.55	526.53	0
526	Lead (mg / kg (ppm))	2113	87.50	9.000	83.45	6.859	3.849	21	0.59	526.52	0
526	Lead (mg / kg (ppm))	0870	88.31	0.3380	83.45	6.859	3.849	21	0.71	526.43	0
526	Lead (mg / kg (ppm))	0218	89.00	2.000	83.45	6.859	3.849	21	0.81	526.43	0
526	Lead (mg / kg (ppm))	0208	91.35	6.700	83.45	6.859	3.849	21	1.15	526.52	0
526	Lead (mg / kg (ppm))	0553	91.40	10.20	83.45	6.859	3.849	21	1.16	526.53	0
526	Lead (mg / kg (ppm))	0918	98.74	5.553	83.45	6.859	3.849	21	2.23	526.53	0
526	Lead (mg / kg (ppm))	0425	103.5	3.900	83.45	6.859	3.849	21	2.92	526.34	0
529	Mercury (µg / kg (ppb))	0218	0.0520	0.0080	60.00	13.20	4.232	11	-4.54	529.99	0
529	Mercury (µg / kg (ppb))	0683	41.17	0.8400	60.00	13.20	4.232	11	-1.43	529.00	0
529	Mercury (µg / kg (ppb))	0186	54.15	1.900	60.00	13.20	4.232	11	-0.44	529.99	0
529	Mercury (µg / kg (ppb))	2033	58.50	1.000	60.00	13.20	4.232	11	-0.11	529.99	0
529	Mercury (µg / kg (ppb))	0227	61.50	1.000	60.00	13.20	4.232	11	0.11	529.99	0
529	Mercury (µg / kg (ppb))	0208	62.45	2.700	60.00	13.20	4.232	11	0.19	529.99	0
529	Mercury (µg / kg (ppb))	0918	64.00	6.000	60.00	13.20	4.232	11	0.30	529.99	0
529	Mercury (µg / kg (ppb))	0553	64.70	10.20	60.00	13.20	4.232	11	0.36	529.99	0
529	Mercury (µg / kg (ppb))	0033	64.85	6.900	60.00	13.20	4.232	11	0.37	529.99	0
529	Mercury (µg / kg (ppb))	0098	65.00	10.00	60.00	13.20	4.232	11	0.38	529.99	0
529	Mercury (µg / kg (ppb))	0010	68.00	6.000	60.00	13.20	4.232	11	0.61	529.99	0
529	Mercury (µg / kg (ppb))	0425	0.0000	0.0000	60.00	13.20	4.232	11		529.00	4
539	Nickel (mg / kg (ppm))	2207	0.3500	0.1000	1.969	0.2844	0.2547	14	-5.69	539.52	0
539	Nickel (mg / kg (ppm))	2114	1.161	0.0870	1.969	0.2844	0.2547	14	-2.84	539.43	0
539	Nickel (mg / kg (ppm))	2033	1.295	0.1900	1.969	0.2844	0.2547	14	-2.37	539.43	0
539	Nickel (mg / kg (ppm))	2113	1.450	0.1000	1.969	0.2844	0.2547	14	-1.82	539.52	0
539	Nickel (mg / kg (ppm))	0553	1.620	0.2000	1.969	0.2844	0.2547	14	-1.23	539.53	0
539	Nickel (mg / kg (ppm))	2141	1.755	0.2900	1.969	0.2844	0.2547	14	-0.75	539.43	0
539	Nickel (mg / kg (ppm))	0407	1.789	0.5968	1.969	0.2844	0.2547	14	-0.63	539.41	0
539	Nickel (mg / kg (ppm))	0042	1.880	0.1600	1.969	0.2844	0.2547	14	-0.31	539.43	0
539	Nickel (mg / kg (ppm))	0511	2.000	0.0000	1.969	0.2844	0.2547	14	0.11	539.41	0
539	Nickel (mg / kg (ppm))	0218	2.150	0.3000	1.969	0.2844	0.2547	14	0.64	539.53	0
539	Nickel (mg / kg (ppm))	0098	2.250	0.3600	1.969	0.2844	0.2547	14	0.99	539.53	0
539	Nickel (mg / kg (ppm))	0010	2.965	0.9500	1.969	0.2844	0.2547	14	3.50	539.53	0
539	Nickel (mg / kg (ppm))	0918	4.115	0.0162	1.969	0.2844	0.2547	14	7.55	539.53	0
539	Nickel (mg / kg (ppm))	0870	4.586	0.2157	1.969	0.2844	0.2547	14	9.20	539.43	0
539	Nickel (mg / kg (ppm))	0218	< 3		1.969	0.2844	0.2547	14		539.43	5

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, 5 = A reporting limit and 4 = zeros submitted as values. Robust statistics not used if < 6 labs reporting, in the case of 4 or 5 labs reporting Means and SD's may be reported based on Raw Data with obvious blunders removed (Mandel h and k exclusions apply; Grey). Flag 3 indicates not used in statistics.