

Dog Food

Minerals Scheme

# Labs Reporting: 29

Test Material Code # 201754

**Analyte Proficiency Testing Report**

Issue Date : 01/31/2018

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))	0510	63.000	2.0000	149.43	11.252	3.8241	17	-7.68	015.43	0
015	Aluminum (mg / kg (ppm))	0278	112.32	4.7600	149.43	11.252	3.8241	17	-3.30	015.43	0
015	Aluminum (mg / kg (ppm))	2051	116.10	3.8000	149.43	11.252	3.8241	17	-2.96	015.53	0
015	Aluminum (mg / kg (ppm))	0047	137.25	5.7200	149.43	11.252	3.8241	17	-1.08	015.52	0
015	Aluminum (mg / kg (ppm))	0918	141.00	0.88610	149.43	11.252	3.8241	17	-0.75	015.43	0
015	Aluminum (mg / kg (ppm))	0870	143.30	3.6000	149.43	11.252	3.8241	17	-0.55	015.42	0
015	Aluminum (mg / kg (ppm))	0407	145.24	2.2830	149.43	11.252	3.8241	17	-0.37	015.41	0
015	Aluminum (mg / kg (ppm))	0021	150.00	0.00000	149.43	11.252	3.8241	17	0.05	015.43	0
015	Aluminum (mg / kg (ppm))	0186	151.50	9.0000	149.43	11.252	3.8241	17	0.18	015.52	0
015	Aluminum (mg / kg (ppm))	0208	152.50	5.0000	149.43	11.252	3.8241	17	0.27	015.41	0
015	Aluminum (mg / kg (ppm))	0098	153.50	3.8000	149.43	11.252	3.8241	17	0.36	015.43	0
015	Aluminum (mg / kg (ppm))	0227	156.00	2.0000	149.43	11.252	3.8241	17	0.58	015.43	0
015	Aluminum (mg / kg (ppm))	2058	167.49	1.4600	149.43	11.252	3.8241	17	1.60	015.43	0
015	Aluminum (mg / kg (ppm))	0553	169.00	6.0000	149.43	11.252	3.8241	17	1.74	015.53	0
015	Aluminum (mg / kg (ppm))	2033	170.75	6.5000	149.43	11.252	3.8241	17	1.89	015.43	0
015	Aluminum (mg / kg (ppm))	0870	174.20	3.6000	149.43	11.252	3.8241	17	2.20	015.43	0
015	Aluminum (mg / kg (ppm))	2129	187.00	4.6000	149.43	11.252	3.8241	17	3.34	015.42	0
015	Aluminum (mg / kg (ppm))	0042	199.50	33.000	149.43	11.252	3.8241	17	4.45	015.42	1
017	Boron (mg / kg (ppm))	0407	56.627	0.10160	65.815	5.6066	1.5385	12	-1.64	017.41	0
017	Boron (mg / kg (ppm))	0208	63.550	4.9000	65.815	5.6066	1.5385	12	-0.40	017.44	0
017	Boron (mg / kg (ppm))	0870	64.515	0.91000	65.815	5.6066	1.5385	12	-0.23	017.42	0
017	Boron (mg / kg (ppm))	2051	64.650	0.50000	65.815	5.6066	1.5385	12	-0.21	017.42	0
017	Boron (mg / kg (ppm))	0043	64.650	0.30000	65.815	5.6066	1.5385	12	-0.21	017.43	0
017	Boron (mg / kg (ppm))	0870	65.055	2.8900	65.815	5.6066	1.5385	12	-0.14	017.43	0
017	Boron (mg / kg (ppm))	0510	65.250	0.50000	65.815	5.6066	1.5385	12	-0.10	017.43	0
017	Boron (mg / kg (ppm))	0047	66.130	0.14000	65.815	5.6066	1.5385	12	0.06	017.52	0
017	Boron (mg / kg (ppm))	2129	66.795	0.67000	65.815	5.6066	1.5385	12	0.17	017.42	0
017	Boron (mg / kg (ppm))	0098	67.510	3.2200	65.815	5.6066	1.5385	12	0.30	017.43	0
017	Boron (mg / kg (ppm))	0918	70.565	3.1300	65.815	5.6066	1.5385	12	0.85	017.43	0
017	Boron (mg / kg (ppm))	2033	72.500	1.2000	65.815	5.6066	1.5385	12	1.19	017.43	0
021	Cobalt (mg / kg (ppm))	0278	25.110	0.42000	35.545	3.3221	2.2803	24	-3.14	021.43	0
021	Cobalt (mg / kg (ppm))	0870	29.675	1.1100	35.545	3.3221	2.2803	24	-1.77	021.43	0
021	Cobalt (mg / kg (ppm))	0870	30.005	0.63000	35.545	3.3221	2.2803	24	-1.67	021.42	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))	0033	30.250	0.30000	35.545	3.3221	2.2803	24	-1.59	021.53	0
021	Cobalt (mg / kg (ppm))	0510	31.695	0.87000	35.545	3.3221	2.2803	24	-1.16	021.43	0
021	Cobalt (mg / kg (ppm))	0964	32.842	3.7943	35.545	3.3221	2.2803	24	-0.81	021.43	0
021	Cobalt (mg / kg (ppm))	2141	34.200	1.5400	35.545	3.3221	2.2803	24	-0.40	021.43	0
021	Cobalt (mg / kg (ppm))	0407	34.292	1.4800	35.545	3.3221	2.2803	24	-0.38	021.41	0
021	Cobalt (mg / kg (ppm))	0021	35.000	2.0000	35.545	3.3221	2.2803	24	-0.16	021.43	0
021	Cobalt (mg / kg (ppm))	0563	35.207	2.4344	35.545	3.3221	2.2803	24	-0.10	021.31	0
021	Cobalt (mg / kg (ppm))	0043	35.600	2.0000	35.545	3.3221	2.2803	24	0.02	021.43	0
021	Cobalt (mg / kg (ppm))	0098	35.610	2.2000	35.545	3.3221	2.2803	24	0.02	021.43	0
021	Cobalt (mg / kg (ppm))	0918	35.614	2.5970	35.545	3.3221	2.2803	24	0.02	021.53	0
021	Cobalt (mg / kg (ppm))	0186	36.000	8.0000	35.545	3.3221	2.2803	24	0.14	021.42	0
021	Cobalt (mg / kg (ppm))	0227	37.000	4.0000	35.545	3.3221	2.2803	24	0.44	021.31	0
021	Cobalt (mg / kg (ppm))	0208	37.400	0.80000	35.545	3.3221	2.2803	24	0.56	021.31	0
021	Cobalt (mg / kg (ppm))	0553	37.400	3.2000	35.545	3.3221	2.2803	24	0.56	021.53	0
021	Cobalt (mg / kg (ppm))	0186	37.500	7.0000	35.545	3.3221	2.2803	24	0.59	021.52	0
021	Cobalt (mg / kg (ppm))	0021	37.500	1.0000	35.545	3.3221	2.2803	24	0.59	021.53	0
021	Cobalt (mg / kg (ppm))	2033	37.850	0.30000	35.545	3.3221	2.2803	24	0.69	021.43	0
021	Cobalt (mg / kg (ppm))	0042	39.350	3.9000	35.545	3.3221	2.2803	24	1.15	021.42	0
021	Cobalt (mg / kg (ppm))	0047	40.435	2.5700	35.545	3.3221	2.2803	24	1.47	021.52	0
021	Cobalt (mg / kg (ppm))	0027	43.724	1.2810	35.545	3.3221	2.2803	24	2.46	021.43	0
021	Cobalt (mg / kg (ppm))	2051	47.450	1.3000	35.545	3.3221	2.2803	24	3.58	021.53	0
022	Copper (mg / kg (ppm))	0510	18.000	0.00000	20.078	2.0450	0.89385	28	-1.02	022.43	0
022	Copper (mg / kg (ppm))	0964	18.383	2.2202	20.078	2.0450	0.89385	28	-0.83	022.43	0
022	Copper (mg / kg (ppm))	0918	18.575	0.65000	20.078	2.0450	0.89385	28	-0.73	022.43	0
022	Copper (mg / kg (ppm))	0098	18.790	1.8400	20.078	2.0450	0.89385	28	-0.63	022.53	0
022	Copper (mg / kg (ppm))	0208	18.900	2.8000	20.078	2.0450	0.89385	28	-0.58	022.31	0
022	Copper (mg / kg (ppm))	0043	19.000	0.80000	20.078	2.0450	0.89385	28	-0.53	022.43	0
022	Copper (mg / kg (ppm))	0202	19.000	0.00000	20.078	2.0450	0.89385	28	-0.53	022.43	0
022	Copper (mg / kg (ppm))	0407	19.160	0.35900	20.078	2.0450	0.89385	28	-0.45	022.41	0
022	Copper (mg / kg (ppm))	0208	19.170	0.60000	20.078	2.0450	0.89385	28	-0.44	022.41	0
022	Copper (mg / kg (ppm))	0047	19.350	0.12000	20.078	2.0450	0.89385	28	-0.36	022.52	0
022	Copper (mg / kg (ppm))	0870	19.405	0.11000	20.078	2.0450	0.89385	28	-0.33	022.42	0
022	Copper (mg / kg (ppm))	0668	19.450	1.7000	20.078	2.0450	0.89385	28	-0.31	022.43	0
022	Copper (mg / kg (ppm))	0227	19.500	1.0000	20.078	2.0450	0.89385	28	-0.28	022.41	0
022	Copper (mg / kg (ppm))	0017	19.879	0.87000	20.078	2.0450	0.89385	28	-0.10	022.43	0
022	Copper (mg / kg (ppm))	2051	19.970	1.6600	20.078	2.0450	0.89385	28	-0.05	022.53	0
022	Copper (mg / kg (ppm))	2033	20.150	2.1000	20.078	2.0450	0.89385	28	0.04	022.43	0
022	Copper (mg / kg (ppm))	2141	20.390	0.04000	20.078	2.0450	0.89385	28	0.15	022.43	0
022	Copper (mg / kg (ppm))	2129	20.485	0.13000	20.078	2.0450	0.89385	28	0.20	022.42	0
022	Copper (mg / kg (ppm))	0553	20.750	0.50000	20.078	2.0450	0.89385	28	0.33	022.53	0
022	Copper (mg / kg (ppm))	0870	20.820	0.54000	20.078	2.0450	0.89385	28	0.36	022.43	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
022	Copper (mg / kg (ppm))	0563	20.921	1.5317	20.078	2.0450	0.89385	28	0.41	022.31	0
022	Copper (mg / kg (ppm))	0186	21.000	0.00000	20.078	2.0450	0.89385	28	0.45	022.52	0
022	Copper (mg / kg (ppm))	0027	21.294	0.36700	20.078	2.0450	0.89385	28	0.59	022.43	0
022	Copper (mg / kg (ppm))	0186	21.500	1.0000	20.078	2.0450	0.89385	28	0.70	022.42	0
022	Copper (mg / kg (ppm))	0010	22.000	0.00000	20.078	2.0450	0.89385	28	0.94	022.33	0
022	Copper (mg / kg (ppm))	0021	22.000	0.00000	20.078	2.0450	0.89385	28	0.94	022.53	0
022	Copper (mg / kg (ppm))	2058	25.035	0.69000	20.078	2.0450	0.89385	28	2.42	022.43	0
022	Copper (mg / kg (ppm))	0042	30.900	3.4000	20.078	2.0450	0.89385	28	5.29	022.42	0
022	Copper (mg / kg (ppm))	0021	0.00000	0.00000	20.078	2.0450	0.89385	28		022.43	4
023	Fluorine (mg / kg (ppm))	0208	23.450	1.9000				2		023.01	0
023	Fluorine (mg / kg (ppm))	2033	25.000	1.4000				2		023.01	0
024	Iodine (mg / kg (ppm))	2033	337.00	34.000	379.88	24.856	26.250	4		024.53	0
024	Iodine (mg / kg (ppm))	0186	378.00	14.000	379.88	24.856	26.250	4		024.52	0
024	Iodine (mg / kg (ppm))	0186	379.50	1.0000	379.88	24.856	26.250	4		024.01	0
024	Iodine (mg / kg (ppm))	0208	425.00	56.000	379.88	24.856	26.250	4		024.99	0
034	Selenium (mg / kg (ppm))	0563	1.2679	0.15710	5.4241	0.67273	0.49113	20	-6.18	034.04	0
034	Selenium (mg / kg (ppm))	0227	3.6900	1.0400	5.4241	0.67273	0.49113	20	-2.58	034.04	0
034	Selenium (mg / kg (ppm))	0021	4.7000	0.00000	5.4241	0.67273	0.49113	20	-1.08	034.53	0
034	Selenium (mg / kg (ppm))	2058	4.7350	0.27000	5.4241	0.67273	0.49113	20	-1.02	034.53	0
034	Selenium (mg / kg (ppm))	0553	5.0500	0.22000	5.4241	0.67273	0.49113	20	-0.56	034.53	0
034	Selenium (mg / kg (ppm))	0278	5.1200	0.70000	5.4241	0.67273	0.49113	20	-0.45	034.43	0
034	Selenium (mg / kg (ppm))	0033	5.2100	0.12000	5.4241	0.67273	0.49113	20	-0.32	034.53	0
034	Selenium (mg / kg (ppm))	0208	5.2350	0.25000	5.4241	0.67273	0.49113	20	-0.28	034.52	0
034	Selenium (mg / kg (ppm))	0964	5.2671	0.20330	5.4241	0.67273	0.49113	20	-0.23	034.43	0
034	Selenium (mg / kg (ppm))	0098	5.3235	0.64900	5.4241	0.67273	0.49113	20	-0.15	034.53	0
034	Selenium (mg / kg (ppm))	0918	5.3947	0.13320	5.4241	0.67273	0.49113	20	-0.04	034.53	0
034	Selenium (mg / kg (ppm))	0010	5.5000	1.0000	5.4241	0.67273	0.49113	20	0.11	034.53	0
034	Selenium (mg / kg (ppm))	2033	5.5000	0.46000	5.4241	0.67273	0.49113	20	0.11	034.53	0
034	Selenium (mg / kg (ppm))	0047	5.6950	0.09000	5.4241	0.67273	0.49113	20	0.40	034.52	0
034	Selenium (mg / kg (ppm))	0186	5.8200	0.02000	5.4241	0.67273	0.49113	20	0.59	034.52	0
034	Selenium (mg / kg (ppm))	2051	5.8500	0.10000	5.4241	0.67273	0.49113	20	0.63	034.53	0
034	Selenium (mg / kg (ppm))	0407	5.9250	0.01000	5.4241	0.67273	0.49113	20	0.74	034.42	0
034	Selenium (mg / kg (ppm))	2141	6.4600	1.3600	5.4241	0.67273	0.49113	20	1.54	034.43	0
034	Selenium (mg / kg (ppm))	0870	26.120	1.2000	5.4241	0.67273	0.49113	20	30.76	034.42	0
034	Selenium (mg / kg (ppm))	0870	27.170	1.8400	5.4241	0.67273	0.49113	20	32.32	034.43	0
034	Selenium (mg / kg (ppm))	0021	0.00000	0.00000	5.4241	0.67273	0.49113	20		034.43	4
036	Sulfur (%)	2129	0.34140	0.01400	0.37721	0.01747	0.01623	17	-2.05	036.42	0
036	Sulfur (%)	0098	0.35900	0.02000	0.37721	0.01747	0.01623	17	-1.04	036.43	0
036	Sulfur (%)	0186	0.35950	0.00100	0.37721	0.01747	0.01623	17	-1.01	036.42	0
036	Sulfur (%)	2051	0.36060	0.00080	0.37721	0.01747	0.01623	17	-0.95	036.42	0
036	Sulfur (%)	0964	0.36790	0.08120	0.37721	0.01747	0.01623	17	-0.53	036.43	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
036	Sulfur (%)	0010	0.37000	0.00000	0.37721	0.01747	0.01623	17	-0.41	036.43	0
036	Sulfur (%)	0186	0.37050	0.00700	0.37721	0.01747	0.01623	17	-0.38	036.52	0
036	Sulfur (%)	0668	0.37150	0.03900	0.37721	0.01747	0.01623	17	-0.33	036.43	0
036	Sulfur (%)	0918	0.37300	0.00200	0.37721	0.01747	0.01623	17	-0.24	036.43	0
036	Sulfur (%)	0870	0.37995	0.01990	0.37721	0.01747	0.01623	17	0.16	036.42	0
036	Sulfur (%)	0553	0.38100	0.02800	0.37721	0.01747	0.01623	17	0.22	036.53	0
036	Sulfur (%)	0407	0.38200	0.00600	0.37721	0.01747	0.01623	17	0.27	036.42	0
036	Sulfur (%)	0021	0.38500	0.01000	0.37721	0.01747	0.01623	17	0.45	036.43	0
036	Sulfur (%)	0202	0.38500	0.01000	0.37721	0.01747	0.01623	17	0.45	036.43	0
036	Sulfur (%)	0510	0.41500	0.01000	0.37721	0.01747	0.01623	17	2.16	036.43	0
036	Sulfur (%)	0208	0.41550	0.00700	0.37721	0.01747	0.01623	17	2.19	036.00	0
036	Sulfur (%)	2033	0.43000	0.02000	0.37721	0.01747	0.01623	17	3.02	036.43	0
036	Sulfur (%)	2141	3,000.2	87.000	0.37721	0.01747	0.01623	17	171693.69	036.43	3
036	Sulfur (%)	0227	3,880.0	120.00	0.37721	0.01747	0.01623	17	222050.93	036.42	3
038	Molybdenum (mg / kg (ppm))	0870	0.44460	0.02180	0.98876	0.15844	0.04964	16	-3.43	038.42	0
038	Molybdenum (mg / kg (ppm))	0870	0.49825	0.02090	0.98876	0.15844	0.04964	16	-3.10	038.43	0
038	Molybdenum (mg / kg (ppm))	0407	0.89255	0.01770	0.98876	0.15844	0.04964	16	-0.61	038.41	0
038	Molybdenum (mg / kg (ppm))	2051	0.90000	0.00000	0.98876	0.15844	0.04964	16	-0.56	038.53	0
038	Molybdenum (mg / kg (ppm))	0047	0.92500	0.03000	0.98876	0.15844	0.04964	16	-0.40	038.52	0
038	Molybdenum (mg / kg (ppm))	2141	0.94500	0.07000	0.98876	0.15844	0.04964	16	-0.28	038.43	0
038	Molybdenum (mg / kg (ppm))	0964	0.95000	0.01160	0.98876	0.15844	0.04964	16	-0.24	038.43	0
038	Molybdenum (mg / kg (ppm))	0918	0.97585	0.02130	0.98876	0.15844	0.04964	16	-0.08	038.53	0
038	Molybdenum (mg / kg (ppm))	0098	1.0075	0.23900	0.98876	0.15844	0.04964	16	0.12	038.53	0
038	Molybdenum (mg / kg (ppm))	0553	1.0090	0.02200	0.98876	0.15844	0.04964	16	0.13	038.53	0
038	Molybdenum (mg / kg (ppm))	0033	1.0400	0.04000	0.98876	0.15844	0.04964	16	0.32	038.53	0
038	Molybdenum (mg / kg (ppm))	0010	1.0500	0.10000	0.98876	0.15844	0.04964	16	0.39	038.53	0
038	Molybdenum (mg / kg (ppm))	0208	1.0850	0.03000	0.98876	0.15844	0.04964	16	0.61	038.41	0
038	Molybdenum (mg / kg (ppm))	0021	1.1000	0.00000	0.98876	0.15844	0.04964	16	0.70	038.53	0
038	Molybdenum (mg / kg (ppm))	2033	1.1750	0.07000	0.98876	0.15844	0.04964	16	1.18	038.43	0
038	Molybdenum (mg / kg (ppm))	0510	1.2500	0.10000	0.98876	0.15844	0.04964	16	1.65	038.43	0
038	Molybdenum (mg / kg (ppm))	0042	1.4135	1.0130	0.98876	0.15844	0.04964	16	2.68	038.42	1
038	Molybdenum (mg / kg (ppm))	0021	0.00000	0.00000	0.98876	0.15844	0.04964	16		038.43	4
041	Vanadium (mg / kg (ppm))	0278	35.050	3.8800	42.557	3.8711	2.2815	10	-1.94	041.43	0
041	Vanadium (mg / kg (ppm))	0870	36.945	1.0700	42.557	3.8711	2.2815	10	-1.45	041.42	0
041	Vanadium (mg / kg (ppm))	0047	39.260	0.14000	42.557	3.8711	2.2815	10	-0.85	041.52	0
041	Vanadium (mg / kg (ppm))	0870	42.245	1.3300	42.557	3.8711	2.2815	10	-0.08	041.43	0
041	Vanadium (mg / kg (ppm))	0208	42.400	4.2000	42.557	3.8711	2.2815	10	-0.04	041.41	0
041	Vanadium (mg / kg (ppm))	0098	43.490	3.3000	42.557	3.8711	2.2815	10	0.24	041.43	0
041	Vanadium (mg / kg (ppm))	0553	45.500	3.2000	42.557	3.8711	2.2815	10	0.76	041.53	0
041	Vanadium (mg / kg (ppm))	2033	45.775	3.3500	42.557	3.8711	2.2815	10	0.83	041.43	0
041	Vanadium (mg / kg (ppm))	0563	46.547	2.3449	42.557	3.8711	2.2815	10	1.03	041.34	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	
041	Vanadium (mg / kg (ppm))	0021	48.000	0.00000	42.557	3.8711	2.2815	10	1.41	041.53	0
516	Arsenic, total (mg / kg (ppm))	0563	7.0292	0.93430	26.653	2.6014	1.9494	23	-7.54	516.00	0
516	Arsenic, total (mg / kg (ppm))	0186	21.000	2.0000	26.653	2.6014	1.9494	23	-2.17	516.42	0
516	Arsenic, total (mg / kg (ppm))	0425	21.250	3.5000	26.653	2.6014	1.9494	23	-2.08	516.34	0
516	Arsenic, total (mg / kg (ppm))	0278	21.400	2.6000	26.653	2.6014	1.9494	23	-2.02	516.43	0
516	Arsenic, total (mg / kg (ppm))	0033	24.900	1.0000	26.653	2.6014	1.9494	23	-0.67	516.53	0
516	Arsenic, total (mg / kg (ppm))	2141	25.185	3.5300	26.653	2.6014	1.9494	23	-0.56	516.43	0
516	Arsenic, total (mg / kg (ppm))	0964	25.613	2.0475	26.653	2.6014	1.9494	23	-0.40	516.43	0
516	Arsenic, total (mg / kg (ppm))	0227	25.700	4.2000	26.653	2.6014	1.9494	23	-0.37	516.53	0
516	Arsenic, total (mg / kg (ppm))	0098	26.180	1.6600	26.653	2.6014	1.9494	23	-0.18	516.53	0
516	Arsenic, total (mg / kg (ppm))	0010	26.200	4.2000	26.653	2.6014	1.9494	23	-0.17	516.53	0
516	Arsenic, total (mg / kg (ppm))	0021	26.500	1.0000	26.653	2.6014	1.9494	23	-0.06	516.53	0
516	Arsenic, total (mg / kg (ppm))	0870	27.020	0.98000	26.653	2.6014	1.9494	23	0.14	516.43	0
516	Arsenic, total (mg / kg (ppm))	0186	27.300	3.0000	26.653	2.6014	1.9494	23	0.25	516.52	0
516	Arsenic, total (mg / kg (ppm))	0553	27.800	0.20000	26.653	2.6014	1.9494	23	0.44	516.53	0
516	Arsenic, total (mg / kg (ppm))	0870	27.845	1.0900	26.653	2.6014	1.9494	23	0.46	516.42	0
516	Arsenic, total (mg / kg (ppm))	0047	28.270	0.04000	26.653	2.6014	1.9494	23	0.62	516.52	0
516	Arsenic, total (mg / kg (ppm))	0021	28.500	1.0000	26.653	2.6014	1.9494	23	0.71	516.43	0
516	Arsenic, total (mg / kg (ppm))	0918	28.551	0.60260	26.653	2.6014	1.9494	23	0.73	516.53	0
516	Arsenic, total (mg / kg (ppm))	2058	28.855	1.1500	26.653	2.6014	1.9494	23	0.85	516.43	0
516	Arsenic, total (mg / kg (ppm))	0027	29.154	1.7020	26.653	2.6014	1.9494	23	0.96	516.43	0
516	Arsenic, total (mg / kg (ppm))	0208	29.400	2.6000	26.653	2.6014	1.9494	23	1.06	516.52	0
516	Arsenic, total (mg / kg (ppm))	2033	29.900	5.3000	26.653	2.6014	1.9494	23	1.25	516.53	0
516	Arsenic, total (mg / kg (ppm))	2051	32.450	0.50000	26.653	2.6014	1.9494	23	2.23	516.53	0
518	Cadmium (mg / kg (ppm))	0425	7.0000	0.60000	51.127	4.5241	2.8145	25	-9.75	518.34	0
518	Cadmium (mg / kg (ppm))	0870	40.130	0.74000	51.127	4.5241	2.8145	25	-2.43	518.42	0
518	Cadmium (mg / kg (ppm))	0278	40.425	4.8100	51.127	4.5241	2.8145	25	-2.37	518.43	0
518	Cadmium (mg / kg (ppm))	0870	43.690	1.7600	51.127	4.5241	2.8145	25	-1.64	518.43	0
518	Cadmium (mg / kg (ppm))	2051	44.800	1.4000	51.127	4.5241	2.8145	25	-1.40	518.53	0
518	Cadmium (mg / kg (ppm))	0563	47.329	3.9740	51.127	4.5241	2.8145	25	-0.84	518.31	0
518	Cadmium (mg / kg (ppm))	0098	48.900	5.6000	51.127	4.5241	2.8145	25	-0.49	518.53	0
518	Cadmium (mg / kg (ppm))	0208	49.600	1.4000	51.127	4.5241	2.8145	25	-0.34	518.52	0
518	Cadmium (mg / kg (ppm))	0186	50.500	1.0000	51.127	4.5241	2.8145	25	-0.14	518.42	0
518	Cadmium (mg / kg (ppm))	0021	50.500	3.0000	51.127	4.5241	2.8145	25	-0.14	518.53	0
518	Cadmium (mg / kg (ppm))	2058	51.450	6.6400	51.127	4.5241	2.8145	25	0.07	518.43	0
518	Cadmium (mg / kg (ppm))	0021	52.000	2.0000	51.127	4.5241	2.8145	25	0.19	518.43	0
518	Cadmium (mg / kg (ppm))	0964	52.227	3.0085	51.127	4.5241	2.8145	25	0.24	518.43	0
518	Cadmium (mg / kg (ppm))	2033	52.350	1.3000	51.127	4.5241	2.8145	25	0.27	518.53	0
518	Cadmium (mg / kg (ppm))	0407	52.551	2.0600	51.127	4.5241	2.8145	25	0.31	518.41	0
518	Cadmium (mg / kg (ppm))	0047	52.650	1.7000	51.127	4.5241	2.8145	25	0.34	518.52	0
518	Cadmium (mg / kg (ppm))	0227	53.050	0.30000	51.127	4.5241	2.8145	25	0.42	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))	0042	53.700	8.0000	51.127	4.5241	2.8145	25	0.57	518.42	0
518	Cadmium (mg / kg (ppm))	2141	54.405	0.13000	51.127	4.5241	2.8145	25	0.72	518.43	0
518	Cadmium (mg / kg (ppm))	0918	54.919	0.61680	51.127	4.5241	2.8145	25	0.84	518.53	0
518	Cadmium (mg / kg (ppm))	0033	55.550	4.5000	51.127	4.5241	2.8145	25	0.98	518.53	0
518	Cadmium (mg / kg (ppm))	0553	55.700	11.000	51.127	4.5241	2.8145	25	1.01	518.53	0
518	Cadmium (mg / kg (ppm))	0010	56.200	1.8000	51.127	4.5241	2.8145	25	1.12	518.53	0
518	Cadmium (mg / kg (ppm))	0186	57.350	2.7000	51.127	4.5241	2.8145	25	1.38	518.52	0
518	Cadmium (mg / kg (ppm))	0027	62.822	0.32300	51.127	4.5241	2.8145	25	2.58	518.43	0
520	Chromium (mg / kg (ppm))	0870	0.71585	0.04630	4.1575	0.53669	0.29038	21	-6.41	520.42	0
520	Chromium (mg / kg (ppm))	0870	1.6600	0.06000	4.1575	0.53669	0.29038	21	-4.65	520.43	0
520	Chromium (mg / kg (ppm))	2051	3.1000	0.20000	4.1575	0.53669	0.29038	21	-1.97	520.53	0
520	Chromium (mg / kg (ppm))	0047	3.3300	0.12000	4.1575	0.53669	0.29038	21	-1.54	520.52	0
520	Chromium (mg / kg (ppm))	2058	3.4550	0.35000	4.1575	0.53669	0.29038	21	-1.31	520.53	0
520	Chromium (mg / kg (ppm))	2033	3.9250	0.15000	4.1575	0.53669	0.29038	21	-0.43	520.43	0
520	Chromium (mg / kg (ppm))	0027	4.1085	0.11900	4.1575	0.53669	0.29038	21	-0.09	520.43	0
520	Chromium (mg / kg (ppm))	0033	4.1200	0.70000	4.1575	0.53669	0.29038	21	-0.07	520.53	0
520	Chromium (mg / kg (ppm))	0010	4.1500	0.30000	4.1575	0.53669	0.29038	21	-0.01	520.53	0
520	Chromium (mg / kg (ppm))	2141	4.2100	0.14000	4.1575	0.53669	0.29038	21	0.10	520.43	0
520	Chromium (mg / kg (ppm))	0510	4.3350	0.09000	4.1575	0.53669	0.29038	21	0.33	520.43	0
520	Chromium (mg / kg (ppm))	0553	4.3700	0.00000	4.1575	0.53669	0.29038	21	0.40	520.53	0
520	Chromium (mg / kg (ppm))	0918	4.3710	0.72770	4.1575	0.53669	0.29038	21	0.40	520.53	0
520	Chromium (mg / kg (ppm))	0042	4.4450	0.55000	4.1575	0.53669	0.29038	21	0.54	520.42	0
520	Chromium (mg / kg (ppm))	0964	4.4584	0.17490	4.1575	0.53669	0.29038	21	0.56	520.43	0
520	Chromium (mg / kg (ppm))	0186	4.5150	0.13000	4.1575	0.53669	0.29038	21	0.67	520.52	0
520	Chromium (mg / kg (ppm))	0227	4.7000	0.20000	4.1575	0.53669	0.29038	21	1.01	520.31	0
520	Chromium (mg / kg (ppm))	0208	4.7050	0.43000	4.1575	0.53669	0.29038	21	1.02	520.41	0
520	Chromium (mg / kg (ppm))	0021	4.7500	0.10000	4.1575	0.53669	0.29038	21	1.10	520.53	0
520	Chromium (mg / kg (ppm))	0098	4.8600	0.80000	4.1575	0.53669	0.29038	21	1.31	520.43	0
520	Chromium (mg / kg (ppm))	0278	4.9650	0.71000	4.1575	0.53669	0.29038	21	1.50	520.43	0
520	Chromium (mg / kg (ppm))	0021	0.00000	0.00000	4.1575	0.53669	0.29038	21		520.43	4
526	Lead (mg / kg (ppm))	0870	40.545	1.9500	87.404	7.1345	6.3573	24	-6.57	526.43	0
526	Lead (mg / kg (ppm))	0870	45.040	1.9000	87.404	7.1345	6.3573	24	-5.94	526.42	0
526	Lead (mg / kg (ppm))	0278	61.785	2.6300	87.404	7.1345	6.3573	24	-3.59	526.43	0
526	Lead (mg / kg (ppm))	0021	75.000	2.0000	87.404	7.1345	6.3573	24	-1.74	526.43	0
526	Lead (mg / kg (ppm))	0964	75.706	3.2888	87.404	7.1345	6.3573	24	-1.64	526.43	0
526	Lead (mg / kg (ppm))	0010	76.850	0.30000	87.404	7.1345	6.3573	24	-1.48	526.53	0
526	Lead (mg / kg (ppm))	0021	78.000	0.00000	87.404	7.1345	6.3573	24	-1.32	526.53	0
526	Lead (mg / kg (ppm))	0563	83.662	4.2413	87.404	7.1345	6.3573	24	-0.52	526.31	0
526	Lead (mg / kg (ppm))	0033	84.550	12.300	87.404	7.1345	6.3573	24	-0.40	526.53	0
526	Lead (mg / kg (ppm))	0186	85.500	5.0000	87.404	7.1345	6.3573	24	-0.27	526.42	0
526	Lead (mg / kg (ppm))	0186	86.000	4.0000	87.404	7.1345	6.3573	24	-0.20	526.52	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))	0407	86.223	8.3058	87.404	7.1345	6.3573	24	-0.17	526.41	0
526	Lead (mg / kg (ppm))	0047	86.655	0.19000	87.404	7.1345	6.3573	24	-0.10	526.52	0
526	Lead (mg / kg (ppm))	0027	88.687	13.379	87.404	7.1345	6.3573	24	0.18	526.43	0
526	Lead (mg / kg (ppm))	0425	92.900	2.8000	87.404	7.1345	6.3573	24	0.77	526.34	0
526	Lead (mg / kg (ppm))	0208	92.900	5.6000	87.404	7.1345	6.3573	24	0.77	526.52	0
526	Lead (mg / kg (ppm))	0098	95.950	0.10000	87.404	7.1345	6.3573	24	1.20	526.53	0
526	Lead (mg / kg (ppm))	2058	96.980	6.5200	87.404	7.1345	6.3573	24	1.34	526.43	0
526	Lead (mg / kg (ppm))	0227	97.250	1.3000	87.404	7.1345	6.3573	24	1.38	526.53	0
526	Lead (mg / kg (ppm))	2141	98.330	11.520	87.404	7.1345	6.3573	24	1.53	526.43	0
526	Lead (mg / kg (ppm))	0918	99.707	2.4508	87.404	7.1345	6.3573	24	1.72	526.53	0
526	Lead (mg / kg (ppm))	0553	102.55	20.900	87.404	7.1345	6.3573	24	2.12	526.53	0
526	Lead (mg / kg (ppm))	0042	106.10	21.800	87.404	7.1345	6.3573	24	2.62	526.42	0
526	Lead (mg / kg (ppm))	2051	138.15	20.100	87.404	7.1345	6.3573	24	7.11	526.53	0
526	Lead (mg / kg (ppm))	2033	93.525	37.250	87.404	7.1345	6.3573	24	0.86	526.53	1
529	Mercury (µg / kg (ppb))	0047	0.21000	0.02000	97.108	21.364	9.4018	11	-4.54	529.99	0
529	Mercury (µg / kg (ppb))	2051	72.000	4.6000	97.108	21.364	9.4018	11	-1.18	529.99	0
529	Mercury (µg / kg (ppb))	0033	80.600	1.8000	97.108	21.364	9.4018	11	-0.77	529.99	0
529	Mercury (µg / kg (ppb))	0186	84.000	2.0000	97.108	21.364	9.4018	11	-0.61	529.99	0
529	Mercury (µg / kg (ppb))	0563	96.850	18.300	97.108	21.364	9.4018	11	-0.01	529.99	0
529	Mercury (µg / kg (ppb))	0553	105.50	5.0000	97.108	21.364	9.4018	11	0.39	529.99	0
529	Mercury (µg / kg (ppb))	0918	110.50	9.0000	97.108	21.364	9.4018	11	0.63	529.99	0
529	Mercury (µg / kg (ppb))	2033	110.50	11.000	97.108	21.364	9.4018	11	0.63	529.99	0
529	Mercury (µg / kg (ppb))	0034	112.25	7.7000	97.108	21.364	9.4018	11	0.71	529.99	0
529	Mercury (µg / kg (ppb))	0227	113.50	17.000	97.108	21.364	9.4018	11	0.77	529.99	0
529	Mercury (µg / kg (ppb))	0208	116.50	27.000	97.108	21.364	9.4018	11	0.91	529.99	0
529	Mercury (µg / kg (ppb))	0010	76.500	61.000	97.108	21.364	9.4018	11	-0.96	529.99	1
529	Mercury (µg / kg (ppb))	0425	0.00000	0.00000	97.108	21.364	9.4018	11		529.00	4
539	Nickel (mg / kg (ppm))	0870	44.900	0.96000	54.359	4.7659	2.2664	21	-1.98	539.43	0
539	Nickel (mg / kg (ppm))	0870	45.405	0.91000	54.359	4.7659	2.2664	21	-1.88	539.42	0
539	Nickel (mg / kg (ppm))	0098	49.000	2.0000	54.359	4.7659	2.2664	21	-1.12	539.53	0
539	Nickel (mg / kg (ppm))	0407	49.108	0.60480	54.359	4.7659	2.2664	21	-1.10	539.41	0
539	Nickel (mg / kg (ppm))	0010	49.500	1.0000	54.359	4.7659	2.2664	21	-1.02	539.53	0
539	Nickel (mg / kg (ppm))	0964	49.943	10.430	54.359	4.7659	2.2664	21	-0.93	539.43	0
539	Nickel (mg / kg (ppm))	0278	51.600	1.8000	54.359	4.7659	2.2664	21	-0.58	539.43	0
539	Nickel (mg / kg (ppm))	2033	52.475	2.0500	54.359	4.7659	2.2664	21	-0.40	539.43	0
539	Nickel (mg / kg (ppm))	0047	53.485	1.8500	54.359	4.7659	2.2664	21	-0.18	539.52	0
539	Nickel (mg / kg (ppm))	0027	55.399	0.51500	54.359	4.7659	2.2664	21	0.22	539.43	0
539	Nickel (mg / kg (ppm))	2051	55.450	0.90000	54.359	4.7659	2.2664	21	0.23	539.53	0
539	Nickel (mg / kg (ppm))	0208	55.950	0.30000	54.359	4.7659	2.2664	21	0.33	539.41	0
539	Nickel (mg / kg (ppm))	0553	56.700	0.20000	54.359	4.7659	2.2664	21	0.49	539.53	0
539	Nickel (mg / kg (ppm))	0918	57.040	6.9353	54.359	4.7659	2.2664	21	0.56	539.53	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	
539	Nickel (mg / kg (ppm))	0042	57.600	3.0000	54.359	4.7659	2.2664	21	0.68	539.42	0
539	Nickel (mg / kg (ppm))	2141	57.690	1.9400	54.359	4.7659	2.2664	21	0.70	539.43	0
539	Nickel (mg / kg (ppm))	0021	58.000	0.00000	54.359	4.7659	2.2664	21	0.76	539.43	0
539	Nickel (mg / kg (ppm))	0021	58.500	1.0000	54.359	4.7659	2.2664	21	0.87	539.53	0
539	Nickel (mg / kg (ppm))	0186	59.200	0.20000	54.359	4.7659	2.2664	21	1.02	539.52	0
539	Nickel (mg / kg (ppm))	0227	59.500	9.0000	54.359	4.7659	2.2664	21	1.08	539.33	0
539	Nickel (mg / kg (ppm))	0186	66.000	2.0000	54.359	4.7659	2.2664	21	2.44	539.42	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, 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.