



AAFCO
Association of American Feed Control Officials



**Minerals Scheme
Dry Cat Feed**

**# Labs Reporting: 26
Analytes Reported 16
Issue Date : 01/31/2024**

Test Material Code # 202354

Analyte Proficiency Testing Report

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Robust* Analyte Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob. Mean	Horwitz SD	Rob. R-bar	# Tests			
015	Aluminum (ppm)	0047	108.5	1.000	136.0	10.39	2.904	14	-2.65	015.52	0
015	Aluminum (ppm)	0510	111.5	1.000	136.0	10.39	2.904	14	-2.36	015.43	0
015	Aluminum (ppm)	0186	115.0	2.860	136.0	10.39	2.904	14	-2.02	015.52	0
015	Aluminum (ppm)	2292	126.5	1.000	136.0	10.39	2.904	14	-0.92	015.99	0
015	Aluminum (ppm)	0511	134.5	3.000	136.0	10.39	2.904	14	-0.15	015.43	0
015	Aluminum (ppm)	0227	135.0	6.000	136.0	10.39	2.904	14	-0.10	015.43	0
015	Aluminum (ppm)	0407	137.1	1.075	136.0	10.39	2.904	14	0.11	015.41	0
015	Aluminum (ppm)	0042	140.5	13.00	136.0	10.39	2.904	14	0.43	015.42	0
015	Aluminum (ppm)	0407	143.9	7.257	136.0	10.39	2.904	14	0.75	015.53	0
015	Aluminum (ppm)	0148	145.4	1.486	136.0	10.39	2.904	14	0.90	015.43	0
015	Aluminum (ppm)	0629	145.5	3.000	136.0	10.39	2.904	14	0.91	015.43	0
015	Aluminum (ppm)	0098	148.0	3.500	136.0	10.39	2.904	14	1.15	015.43	0
015	Aluminum (ppm)	0870	149.5	1.709	136.0	10.39	2.904	14	1.30	015.43	0
015	Aluminum (ppm)	0278	164.6	2.547	136.0	10.39	2.904	14	2.75	015.43	0
017	Boron (ppm)	0047	90.25	0.4100	108.3	8.562	1.363	7	-2.11	017.52	0
017	Boron (ppm)	0510	98.50	1.000	108.3	8.562	1.363	7	-1.15	017.43	0
017	Boron (ppm)	0629	107.5	1.000	108.3	8.562	1.363	7	-0.10	017.43	0
017	Boron (ppm)	0407	108.8	0.3478	108.3	8.562	1.363	7	0.06	017.41	0
017	Boron (ppm)	0098	114.0	0.5000	108.3	8.562	1.363	7	0.66	017.43	0
017	Boron (ppm)	0870	116.3	2.774	108.3	8.562	1.363	7	0.92	017.43	0
017	Boron (ppm)	0407	123.1	11.92	108.3	8.562	1.363	7	1.72	017.53	0
017	Boron (ppm)	0042	137.5	25.00	108.3	8.562	1.363	7	3.41	017.42	1
021	Cobalt (ppm)	0042	0.9925	0.0350	1.358	0.2075	0.0630	17	-1.76	021.42	0
021	Cobalt (ppm)	0047	1.030	0.0200	1.358	0.2075	0.0630	17	-1.58	021.52	0
021	Cobalt (ppm)	2113	1.150	0.1000	1.358	0.2075	0.0630	17	-1.00	021.52	0
021	Cobalt (ppm)	0033	1.165	0.0300	1.358	0.2075	0.0630	17	-0.93	021.53	0
021	Cobalt (ppm)	2433	1.209	0.0010	1.358	0.2075	0.0630	17	-0.72	021.42	0
021	Cobalt (ppm)	2404	1.260	0.0800	1.358	0.2075	0.0630	17	-0.47	021.43	0
021	Cobalt (ppm)	0629	1.270	0.0400	1.358	0.2075	0.0630	17	-0.42	021.43	0
021	Cobalt (ppm)	2404	1.271	0.0260	1.358	0.2075	0.0630	17	-0.42	021.53	0
021	Cobalt (ppm)	0186	1.280	0.0600	1.358	0.2075	0.0630	17	-0.38	021.52	0
021	Cobalt (ppm)	0572	1.375	0.0500	1.358	0.2075	0.0630	17	0.08	021.53	0
021	Cobalt (ppm)	0098	1.380	0.1310	1.358	0.2075	0.0630	17	0.10	021.53	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Robust* Analyte Values				AAFCO PT	Your	Flag
			Value	Range	Rob. Mean	Horwitz SD	Rob. R-bar	# Tests	Z Score	Method	
021	Cobalt (ppm)	0510	1.560	0.1200	1.358	0.2075	0.0630	17	0.97	021.43	0
021	Cobalt (ppm)	0407	1.567	0.0732	1.358	0.2075	0.0630	17	1.00	021.41	0
021	Cobalt (ppm)	0148	1.580	0.0400	1.358	0.2075	0.0630	17	1.07	021.43	0
021	Cobalt (ppm)	0407	1.611	0.0898	1.358	0.2075	0.0630	17	1.22	021.53	0
021	Cobalt (ppm)	0227	1.650	0.5000	1.358	0.2075	0.0630	17	1.41	021.43	0
021	Cobalt (ppm)	0870	1.751	0.0445	1.358	0.2075	0.0630	17	1.89	021.43	0
021	Cobalt (ppm)	0278	26.13	1.428	1.358	0.2075	0.0630	17	>100	021.43	2
021	Cobalt (ppm)	2141	< 5		1.358	0.2075	0.0630	17		021.43	5
022	Copper (ppm)	0033	120.0	2.000	143.2	10.85	2.296	25	-2.14	022.53	0
022	Copper (ppm)	0047	125.0	2.760	143.2	10.85	2.296	25	-1.67	022.52	0
022	Copper (ppm)	2325	126.0	0.0400	143.2	10.85	2.296	25	-1.58	022.31	0
022	Copper (ppm)	2292	127.5	1.000	143.2	10.85	2.296	25	-1.45	022.99	0
022	Copper (ppm)	0186	132.0	0.0000	143.2	10.85	2.296	25	-1.03	022.52	0
022	Copper (ppm)	0510	132.5	1.000	143.2	10.85	2.296	25	-0.98	022.43	0
022	Copper (ppm)	0511	138.0	6.000	143.2	10.85	2.296	25	-0.48	022.43	0
022	Copper (ppm)	0407	138.8	1.837	143.2	10.85	2.296	25	-0.40	022.41	0
022	Copper (ppm)	0407	140.2	3.049	143.2	10.85	2.296	25	-0.28	022.53	0
022	Copper (ppm)	0009	142.0	6.000	143.2	10.85	2.296	25	-0.11	022.42	0
022	Copper (ppm)	0629	144.0	2.000	143.2	10.85	2.296	25	0.08	022.43	0
022	Copper (ppm)	2433	146.9	2.721	143.2	10.85	2.296	25	0.34	022.42	0
022	Copper (ppm)	0278	147.1	0.8100	143.2	10.85	2.296	25	0.37	022.42	0
022	Copper (ppm)	0042	148.0	2.000	143.2	10.85	2.296	25	0.44	022.42	0
022	Copper (ppm)	0723	148.1	0.5000	143.2	10.85	2.296	25	0.45	022.43	0
022	Copper (ppm)	0148	148.8	0.5115	143.2	10.85	2.296	25	0.52	022.43	0
022	Copper (ppm)	2404	148.8	0.6600	143.2	10.85	2.296	25	0.52	022.43	0
022	Copper (ppm)	0870	148.8	1.547	143.2	10.85	2.296	25	0.52	022.43	0
022	Copper (ppm)	0227	149.0	6.000	143.2	10.85	2.296	25	0.54	022.43	0
022	Copper (ppm)	0572	149.0	6.000	143.2	10.85	2.296	25	0.54	022.53	0
022	Copper (ppm)	2113	150.0	0.0000	143.2	10.85	2.296	25	0.63	022.52	0
022	Copper (ppm)	0529	150.7	1.200	143.2	10.85	2.296	25	0.69	022.31	0
022	Copper (ppm)	2404	155.1	3.408	143.2	10.85	2.296	25	1.09	022.53	0
022	Copper (ppm)	0017	156.0	1.456	143.2	10.85	2.296	25	1.18	022.43	0
022	Copper (ppm)	2141	157.2	4.011	143.2	10.85	2.296	25	1.29	022.43	0
022	Copper (ppm)	0098	141.6	11.00	143.2	10.85	2.296	25	-0.15	022.53	1
023	Fluorine (ppm)	0227	23.50	1.000				1		023.01	0
024	Iodine (ppm)	0186	5.820	0.6600				1		024.52	0
034	Selenium, Total (Se) (ppm)	0047	2.345	0.4100	3.048	0.4123	0.1755	15	-1.71	034.52	0
034	Selenium, Total (Se) (ppm)	0278	2.532	0.0200	3.048	0.4123	0.1755	15	-1.25	034.53	0
034	Selenium, Total (Se) (ppm)	0033	2.635	0.2100	3.048	0.4123	0.1755	15	-1.00	034.53	0
034	Selenium, Total (Se) (ppm)	0870	2.821	0.0000	3.048	0.4123	0.1755	15	-0.55	034.43	0
034	Selenium, Total (Se) (ppm)	0629	2.835	0.0900	3.048	0.4123	0.1755	15	-0.52	034.43	0
034	Selenium, Total (Se) (ppm)	0572	2.850	0.3600	3.048	0.4123	0.1755	15	-0.48	034.53	0

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			Value	Range	Rob. Mean	Horwitz SD	Rob. R-bar	# Tests	Z Score	Method	
034	Selenium, Total (Se) (ppm)	0148	2.880	0.0200	3.048	0.4123	0.1755	15	-0.41	034.42	0
034	Selenium, Total (Se) (ppm)	2404	2.959	0.2800	3.048	0.4123	0.1755	15	-0.22	034.53	0
034	Selenium, Total (Se) (ppm)	0098	3.068	0.1500	3.048	0.4123	0.1755	15	0.05	034.53	0
034	Selenium, Total (Se) (ppm)	2404	3.130	0.1800	3.048	0.4123	0.1755	15	0.20	034.43	0
034	Selenium, Total (Se) (ppm)	2433	3.131	0.1600	3.048	0.4123	0.1755	15	0.20	034.42	0
034	Selenium, Total (Se) (ppm)	0010	3.430	0.3200	3.048	0.4123	0.1755	15	0.93	034.53	0
034	Selenium, Total (Se) (ppm)	0407	3.657	0.0214	3.048	0.4123	0.1755	15	1.48	034.53	0
034	Selenium, Total (Se) (ppm)	0227	3.675	0.2300	3.048	0.4123	0.1755	15	1.52	034.53	0
034	Selenium, Total (Se) (ppm)	0186	4.065	0.0163	3.048	0.4123	0.1755	15	2.47	034.52	0
034	Selenium, Total (Se) (ppm)	0009	3.090	0.8830	3.048	0.4123	0.1755	15	0.10	034.53	1
034	Selenium, Total (Se) (ppm)	2141	< 5		3.048	0.4123	0.1755	15		034.43	5
034	Selenium, Total (Se) (ppm)	0042	< 12		3.048	0.4123	0.1755	15		034.42	5
036	Sulfur (%)	0186	0.4458	0.0270	0.4830	0.0216	0.0158	11	-1.73	036.52	0
036	Sulfur (%)	0510	0.4550	0.0100	0.4830	0.0216	0.0158	11	-1.30	036.43	0
036	Sulfur (%)	0042	0.4670	0.0220	0.4830	0.0216	0.0158	11	-0.74	036.42	0
036	Sulfur (%)	0227	0.4700	0.0000	0.4830	0.0216	0.0158	11	-0.60	036.53	0
036	Sulfur (%)	0098	0.4845	0.0030	0.4830	0.0216	0.0158	11	0.07	036.43	0
036	Sulfur (%)	0407	0.4853	0.0585	0.4830	0.0216	0.0158	11	0.10	036.42	0
036	Sulfur (%)	0870	0.4885	0.0207	0.4830	0.0216	0.0158	11	0.25	036.42	0
036	Sulfur (%)	0629	0.4900	0.0000	0.4830	0.0216	0.0158	11	0.32	036.43	0
036	Sulfur (%)	2292	0.5015	0.0010	0.4830	0.0216	0.0158	11	0.86	036.99	0
036	Sulfur (%)	2141	0.5107	0.0140	0.4830	0.0216	0.0158	11	1.28	036.43	0
036	Sulfur (%)	0278	0.5150	0.0100	0.4830	0.0216	0.0158	11	1.48	036.42	0
038	Molybdenum (ppm)	0033	110.5	1.000	123.9	9.596	4.700	17	-1.40	038.53	0
038	Molybdenum (ppm)	0510	113.5	5.200	123.9	9.596	4.700	17	-1.08	038.43	0
038	Molybdenum (ppm)	0186	114.5	7.000	123.9	9.596	4.700	17	-0.98	038.52	0
038	Molybdenum (ppm)	0047	116.2	2.600	123.9	9.596	4.700	17	-0.80	038.52	0
038	Molybdenum (ppm)	0511	122.0	2.000	123.9	9.596	4.700	17	-0.20	038.43	0
038	Molybdenum (ppm)	0227	122.5	1.000	123.9	9.596	4.700	17	-0.15	038.53	0
038	Molybdenum (ppm)	0629	123.0	0.0000	123.9	9.596	4.700	17	-0.09	038.43	0
038	Molybdenum (ppm)	0148	124.1	3.800	123.9	9.596	4.700	17	0.02	038.43	0
038	Molybdenum (ppm)	0098	125.0	2.900	123.9	9.596	4.700	17	0.11	038.53	0
038	Molybdenum (ppm)	0870	125.0	7.976	123.9	9.596	4.700	17	0.11	038.43	0
038	Molybdenum (ppm)	0010	127.1	9.000	123.9	9.596	4.700	17	0.33	038.53	0
038	Molybdenum (ppm)	0407	128.1	1.357	123.9	9.596	4.700	17	0.44	038.41	0
038	Molybdenum (ppm)	2141	128.8	2.867	123.9	9.596	4.700	17	0.51	038.43	0
038	Molybdenum (ppm)	0572	129.0	16.00	123.9	9.596	4.700	17	0.53	038.53	0
038	Molybdenum (ppm)	0407	129.4	2.517	123.9	9.596	4.700	17	0.57	038.53	0
038	Molybdenum (ppm)	0278	130.3	5.780	123.9	9.596	4.700	17	0.66	038.42	0
038	Molybdenum (ppm)	0042	137.0	10.00	123.9	9.596	4.700	17	1.37	038.42	0
038	Molybdenum (ppm)	2113	112.5	35.00	123.9	9.596	4.700	17	-1.19	038.52	1
041	Vanadium (ppm)	0629	0.6600	0.0000	0.7482	0.1250	0.0244	5		041.43	0

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			Value	Range	Rob. Mean	Horwitz SD	Rob. R-bar	# Tests			
041	Vanadium (ppm)	0047	0.6750	0.0100	0.7482	0.1250	0.0244	5		041.52	0
041	Vanadium (ppm)	0098	0.7905	0.0790	0.7482	0.1250	0.0244	5		041.53	0
041	Vanadium (ppm)	0407	0.7998	0.0032	0.7482	0.1250	0.0244	5		041.53	0
041	Vanadium (ppm)	0870	0.8580	0.0055	0.7482	0.1250	0.0244	5		041.43	0
041	Vanadium (ppm)	0278	42.42	0.5770	0.7482	0.1250	0.0244	5		041.43	2
516	Arsenic, Total (As) (ppm)	0148	10.26	0.1000	13.01	1.415	0.4286	19	-1.94	516.43	0
516	Arsenic, Total (As) (ppm)	0723	10.40	0.0540	13.01	1.415	0.4286	19	-1.85	516.43	0
516	Arsenic, Total (As) (ppm)	0629	10.85	0.5000	13.01	1.415	0.4286	19	-1.53	516.43	0
516	Arsenic, Total (As) (ppm)	0033	10.85	0.3000	13.01	1.415	0.4286	19	-1.53	516.53	0
516	Arsenic, Total (As) (ppm)	0047	11.14	0.1900	13.01	1.415	0.4286	19	-1.33	516.52	0
516	Arsenic, Total (As) (ppm)	0186	12.10	0.3090	13.01	1.415	0.4286	19	-0.64	516.52	0
516	Arsenic, Total (As) (ppm)	2248	12.35	0.3500	13.01	1.415	0.4286	19	-0.47	516.00	0
516	Arsenic, Total (As) (ppm)	0511	12.50	1.000	13.01	1.415	0.4286	19	-0.36	516.43	0
516	Arsenic, Total (As) (ppm)	0010	13.05	1.500	13.01	1.415	0.4286	19	0.03	516.53	0
516	Arsenic, Total (As) (ppm)	0098	13.13	0.3000	13.01	1.415	0.4286	19	0.08	516.53	0
516	Arsenic, Total (As) (ppm)	0870	13.34	0.3397	13.01	1.415	0.4286	19	0.24	516.43	0
516	Arsenic, Total (As) (ppm)	0572	13.50	0.2000	13.01	1.415	0.4286	19	0.35	516.53	0
516	Arsenic, Total (As) (ppm)	2141	14.03	0.1000	13.01	1.415	0.4286	19	0.72	516.43	0
516	Arsenic, Total (As) (ppm)	0227	14.15	0.5000	13.01	1.415	0.4286	19	0.80	516.53	0
516	Arsenic, Total (As) (ppm)	0407	14.23	0.3245	13.01	1.415	0.4286	19	0.86	516.53	0
516	Arsenic, Total (As) (ppm)	2404	14.65	0.6300	13.01	1.415	0.4286	19	1.15	516.43	0
516	Arsenic, Total (As) (ppm)	0042	14.65	0.5000	13.01	1.415	0.4286	19	1.16	516.42	0
516	Arsenic, Total (As) (ppm)	2113	18.50	1.000	13.01	1.415	0.4286	19	3.88	516.52	0
516	Arsenic, Total (As) (ppm)	0278	29.45	0.7590	13.01	1.415	0.4286	19	11.62	516.53	0
516	Arsenic, Total (As) (ppm)	2292	431.5	1.000	13.01	1.415	0.4286	19	>100	516.99	2
518	Cadmium (ppm)	2325	0.0300	0.0000	0.5247	0.0925	0.0321	19	-5.35	518.41	0
518	Cadmium (ppm)	0629	0.3950	0.0100	0.5247	0.0925	0.0321	19	-1.40	518.43	0
518	Cadmium (ppm)	2433	0.4335	0.0070	0.5247	0.0925	0.0321	19	-0.99	518.42	0
518	Cadmium (ppm)	0407	0.4366	0.0546	0.5247	0.0925	0.0321	19	-0.95	518.41	0
518	Cadmium (ppm)	0723	0.4420	0.0020	0.5247	0.0925	0.0321	19	-0.89	518.43	0
518	Cadmium (ppm)	0186	0.4556	0.0329	0.5247	0.0925	0.0321	19	-0.75	518.52	0
518	Cadmium (ppm)	0047	0.4600	0.0400	0.5247	0.0925	0.0321	19	-0.70	518.52	0
518	Cadmium (ppm)	2404	0.4850	0.0300	0.5247	0.0925	0.0321	19	-0.43	518.43	0
518	Cadmium (ppm)	0033	0.4930	0.0300	0.5247	0.0925	0.0321	19	-0.34	518.53	0
518	Cadmium (ppm)	0148	0.4985	0.0190	0.5247	0.0925	0.0321	19	-0.28	518.43	0
518	Cadmium (ppm)	2248	0.5000	0.0400	0.5247	0.0925	0.0321	19	-0.27	518.34	0
518	Cadmium (ppm)	0407	0.5072	0.0216	0.5247	0.0925	0.0321	19	-0.19	518.53	0
518	Cadmium (ppm)	0227	0.5355	0.0550	0.5247	0.0925	0.0321	19	0.12	518.53	0
518	Cadmium (ppm)	0098	0.5735	0.0210	0.5247	0.0925	0.0321	19	0.53	518.53	0
518	Cadmium (ppm)	0010	0.6000	0.0000	0.5247	0.0925	0.0321	19	0.81	518.53	0
518	Cadmium (ppm)	0572	0.6700	0.1100	0.5247	0.0925	0.0321	19	1.57	518.53	0
518	Cadmium (ppm)	2113	0.7200	0.0000	0.5247	0.0925	0.0321	19	2.11	518.52	0

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			Value	Range	Rob. Mean	Horwitz SD	Rob. R-bar	# Tests	Z Score	Method	
518	Cadmium (ppm)	0870	0.7388	0.0309	0.5247	0.0925	0.0321	19	2.31	518.43	0
518	Cadmium (ppm)	0278	2.856	0.0560	0.5247	0.0925	0.0321	19	25.21	518.43	0
518	Cadmium (ppm)	0042	< 0.8		0.5247	0.0925	0.0321	19		518.42	5
518	Cadmium (ppm)	2141	< 5		0.5247	0.0925	0.0321	19		518.43	5
520	Chromium, Total (Cr) (ppm)	0278	9.554	0.0970	195.4	14.13	4.501	20	-13.15	520.43	0
520	Chromium, Total (Cr) (ppm)	0033	172.0	2.000	195.4	14.13	4.501	20	-1.66	520.53	0
520	Chromium, Total (Cr) (ppm)	0047	172.9	8.680	195.4	14.13	4.501	20	-1.60	520.52	0
520	Chromium, Total (Cr) (ppm)	0510	182.5	4.430	195.4	14.13	4.501	20	-0.92	520.43	0
520	Chromium, Total (Cr) (ppm)	2404	183.2	1.970	195.4	14.13	4.501	20	-0.86	520.53	0
520	Chromium, Total (Cr) (ppm)	0723	185.3	0.7030	195.4	14.13	4.501	20	-0.72	520.43	0
520	Chromium, Total (Cr) (ppm)	2404	186.6	0.2700	195.4	14.13	4.501	20	-0.62	520.43	0
520	Chromium, Total (Cr) (ppm)	0629	189.0	0.0000	195.4	14.13	4.501	20	-0.45	520.43	0
520	Chromium, Total (Cr) (ppm)	0042	193.0	6.000	195.4	14.13	4.501	20	-0.17	520.42	0
520	Chromium, Total (Cr) (ppm)	0186	193.8	6.730	195.4	14.13	4.501	20	-0.11	520.52	0
520	Chromium, Total (Cr) (ppm)	0511	195.0	12.00	195.4	14.13	4.501	20	-0.03	520.43	0
520	Chromium, Total (Cr) (ppm)	2113	195.0	10.00	195.4	14.13	4.501	20	-0.03	520.52	0
520	Chromium, Total (Cr) (ppm)	0227	203.0	4.000	195.4	14.13	4.501	20	0.54	520.53	0
520	Chromium, Total (Cr) (ppm)	2141	206.7	5.534	195.4	14.13	4.501	20	0.80	520.43	0
520	Chromium, Total (Cr) (ppm)	0098	207.5	17.00	195.4	14.13	4.501	20	0.86	520.53	0
520	Chromium, Total (Cr) (ppm)	0148	208.2	0.6400	195.4	14.13	4.501	20	0.90	520.43	0
520	Chromium, Total (Cr) (ppm)	0407	212.2	0.7121	195.4	14.13	4.501	20	1.19	520.41	0
520	Chromium, Total (Cr) (ppm)	0870	214.8	1.285	195.4	14.13	4.501	20	1.38	520.43	0
520	Chromium, Total (Cr) (ppm)	0010	216.5	3.600	195.4	14.13	4.501	20	1.49	520.53	0
520	Chromium, Total (Cr) (ppm)	0407	233.6	7.234	195.4	14.13	4.501	20	2.70	520.53	0
520	Chromium, Total (Cr) (ppm)	2292	0.0000	0.0000	195.4	14.13	4.501	20		520.99	4
526	Lead (ppm)	2325	0.1750	0.0100	0.9517	0.1534	0.0293	18	-5.06	526.43	0
526	Lead (ppm)	2433	0.6925	0.0130	0.9517	0.1534	0.0293	18	-1.69	526.42	0
526	Lead (ppm)	2404	0.7700	0.0400	0.9517	0.1534	0.0293	18	-1.18	526.43	0
526	Lead (ppm)	0629	0.7800	0.0400	0.9517	0.1534	0.0293	18	-1.12	526.43	0
526	Lead (ppm)	0033	0.7805	0.0030	0.9517	0.1534	0.0293	18	-1.12	526.53	0
526	Lead (ppm)	0407	0.8492	0.0240	0.9517	0.1534	0.0293	18	-0.67	526.41	0
526	Lead (ppm)	0047	0.8700	0.0400	0.9517	0.1534	0.0293	18	-0.53	526.52	0
526	Lead (ppm)	2113	0.8850	0.0300	0.9517	0.1534	0.0293	18	-0.43	526.52	0
526	Lead (ppm)	0186	0.8868	0.0370	0.9517	0.1534	0.0293	18	-0.42	526.52	0
526	Lead (ppm)	0227	0.9225	0.0050	0.9517	0.1534	0.0293	18	-0.19	526.53	0
526	Lead (ppm)	0407	0.9444	0.0012	0.9517	0.1534	0.0293	18	-0.05	526.53	0
526	Lead (ppm)	0098	1.014	0.1130	0.9517	0.1534	0.0293	18	0.40	526.53	0
526	Lead (ppm)	2248	1.035	0.0300	0.9517	0.1534	0.0293	18	0.54	526.34	0
526	Lead (ppm)	0870	1.130	0.0092	0.9517	0.1534	0.0293	18	1.16	526.43	0
526	Lead (ppm)	0723	1.158	0.2110	0.9517	0.1534	0.0293	18	1.34	526.43	0
526	Lead (ppm)	0572	1.215	0.0100	0.9517	0.1534	0.0293	18	1.72	526.53	0
526	Lead (ppm)	0278	2.591	0.2420	0.9517	0.1534	0.0293	18	10.69	526.43	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Robust* Analyte Values				AAFCO PT	Your	Flag
			Value	Range	Rob. Mean	Horwitz SD	Rob. R-bar	# Tests	Z Score	Method	
526	Lead (ppm)	2292	9.000	0.0000	0.9517	0.1534	0.0293	18	52.47	526.99	0
526	Lead (ppm)	0010	1.350	0.7000	0.9517	0.1534	0.0293	18	2.60	526.53	1
526	Lead (ppm)	0042	< 5		0.9517	0.1534	0.0293	18		526.42	5
526	Lead (ppm)	2141	< 5		0.9517	0.1534	0.0293	18		526.43	5
526	Lead (ppm)	0148	< 9.7		0.9517	0.1534	0.0293	18		526.43	5
529	Mercury (ppb)	0186	30.70	1.400				3		529.99	0
529	Mercury (ppb)	0407	40.84	1.039				3		529.99	0
529	Mercury (ppb)	0227	41.85	3.900				3		529.99	0
529	Mercury (ppb)	0010	46.00	8.000				3		529.99	1
529	Mercury (ppb)	0098	< 66					3		529.99	5
529	Mercury (ppb)	0033	< 75					3		529.99	5
539	Nickel (ppm)	0047	201.9	2.590	235.3	16.55	4.776	14	-2.02	539.52	0
539	Nickel (ppm)	0511	214.5	1.000	235.3	16.55	4.776	14	-1.26	539.43	0
539	Nickel (ppm)	0186	223.8	6.300	235.3	16.55	4.776	14	-0.70	539.52	0
539	Nickel (ppm)	0629	226.0	6.000	235.3	16.55	4.776	14	-0.56	539.43	0
539	Nickel (ppm)	0042	226.5	11.00	235.3	16.55	4.776	14	-0.53	539.42	0
539	Nickel (ppm)	0407	232.9	8.026	235.3	16.55	4.776	14	-0.15	539.53	0
539	Nickel (ppm)	2292	233.5	1.000	235.3	16.55	4.776	14	-0.11	539.99	0
539	Nickel (ppm)	0407	233.7	0.4455	235.3	16.55	4.776	14	-0.10	539.41	0
539	Nickel (ppm)	0870	241.8	7.423	235.3	16.55	4.776	14	0.39	539.43	0
539	Nickel (ppm)	0098	243.0	6.000	235.3	16.55	4.776	14	0.46	539.53	0
539	Nickel (ppm)	0148	245.2	2.720	235.3	16.55	4.776	14	0.60	539.43	0
539	Nickel (ppm)	2113	250.0	0.0000	235.3	16.55	4.776	14	0.89	539.52	0
539	Nickel (ppm)	2141	253.1	6.667	235.3	16.55	4.776	14	1.07	539.43	0
539	Nickel (ppm)	0010	263.0	4.000	235.3	16.55	4.776	14	1.67	539.53	0
539	Nickel (ppm)	2433	226.8	28.53	235.3	16.55	4.776	14	-0.52	539.42	1
539	Nickel (ppm)	0278	2.558	0.1060	235.3	16.55	4.776	14	-14.07	539.43	2

Note 1: Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or between -2 and -3 (warning) and Green = Z <= 2 and >= -2 (OK at 95%). Horwitz SD's assigned based on Rob Mean only.

Note 2: Data Not Used Flags: 1=Rejected for duplicates too far apart, 2=Rejected as extreme outlier, 5=Reporting limit (<), 4=Zeros submitted as values and 3=Statistical problem. Flag 0 indicates data used in calculations.

Note 3: *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). A zero range is not included in robust R-bar calculation.