AAFCO Proficiency Testing Program

AAFCO PTP Minerals Scheme

Poultry Feed | **Minerals Scheme** | **# Labs Reporting: 26**

Test Material Code # 201751 | **Analyte Proficiency Testing Report** | **Issue Date : 04/30/2017**

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))	0047	227.10	16.400	280.73	19.224	12.093	16	-2.79	015.52	0
015	Aluminum (mg / kg (ppm))	2058	233.28	6.7800	280.73	19.224	12.093	16	-2.47	015.43	0
015	Aluminum (mg / kg (ppm))	2129	243.40	3.4000	280.73	19.224	12.093	16	-1.94	015.42	0
015	Aluminum (mg / kg (ppm))	0407	244.76	8.4226	280.73	19.224	12.093	16	-1.87	015.41	0
015	Aluminum (mg / kg (ppm))	0098	268.90	20.200	280.73	19.224	12.093	16	-0.62	015.43	0
015	Aluminum (mg / kg (ppm))	2113	270.00	0.00000	280.73	19.224	12.093	16	-0.56	015.52	0
015	Aluminum (mg / kg (ppm))	0160	270.50	23.000	280.73	19.224	12.093	16	-0.53	015.42	0
015	Aluminum (mg / kg (ppm))	0278	282.65	8.5000	280.73	19.224	12.093	16	0.10	015.43	0
015	Aluminum (mg / kg (ppm))	0870	283.35	7.3000	280.73	19.224	12.093	16	0.14	015.42	0
015	Aluminum (mg / kg (ppm))	2051	288.00	22.992	280.73	19.224	12.093	16	0.38	015.53	0
015	Aluminum (mg / kg (ppm))	0186	303.50	41.000	280.73	19.224	12.093	16	1.18	015.52	0
015	Aluminum (mg / kg (ppm))	0510	304.50	9.0000	280.73	19.224	12.093	16	1.24	015.43	0
015	Aluminum (mg / kg (ppm))	0918	304.69	0.30000	280.73	19.224	12.093	16	1.25	015.43	0
015	Aluminum (mg / kg (ppm))	0964	319.55	11.201	280.73	19.224	12.093	16	2.02	015.41	0
015	Aluminum (mg / kg (ppm))	0208	320.50	1.0000	280.73	19.224	12.093	16	2.07	015.41	0
015	Aluminum (mg / kg (ppm))	0227	327.00	14.000	280.73	19.224	12.093	16	2.41	015.43	0
015	Aluminum (mg / kg (ppm))	2033	325.00	82.000	280.73	19.224	12.093	16	2.30	015.43	1
017	Boron (mg / kg (ppm))	0047	16.160	1.8800	19.514	1.9960	0.96530	10	-1.68	017.52	0
017	Boron (mg / kg (ppm))	2051	16.663	0.22090	19.514	1.9960	0.96530	10	-1.43	017.42	0
017	Boron (mg / kg (ppm))	0407	17.157	0.57210	19.514	1.9960	0.96530	10	-1.18	017.41	0
017	Boron (mg / kg (ppm))	2033	18.050	1.3000	19.514	1.9960	0.96530	10	-0.73	017.43	0
017	Boron (mg / kg (ppm))	2129	20.000	0.02000	19.514	1.9960	0.96530	10	0.24	017.42	0
017	Boron (mg / kg (ppm))	0918	20.190	2.7000	19.514	1.9960	0.96530	10	0.34	017.43	0
017	Boron (mg / kg (ppm))	0510	20.500	1.0000	19.514	1.9960	0.96530	10	0.49	017.43	0
017	Boron (mg / kg (ppm))	2113	21.000	0.00000	19.514	1.9960	0.96530	10	0.74	017.52	0
017	Boron (mg / kg (ppm))	0098	21.770	0.26000	19.514	1.9960	0.96530	10	1.13	017.43	0
017	Boron (mg / kg (ppm))	0870	29.910	1.7000	19.514	1.9960	0.96530	10	5.21	017.42	0
021	Cobalt (mg / kg (ppm))	0278	19.890	0.28000	23.727	2.3567	1.8797	20	-1.63	021.43	0
021	Cobalt (mg / kg (ppm))	0407	21.234	0.46130	23.727	2.3567	1.8797	20	-1.06	021.41	0
021	Cobalt (mg / kg (ppm))	2033	21.600	1.6000	23.727	2.3567	1.8797	20	-0.90	021.43	0
021	Cobalt (mg / kg (ppm))	0033	22.000	0.80000	23.727	2.3567	1.8797	20	-0.73	021.53	0
021	Cobalt (mg / kg (ppm))	0510	22.410	0.32000	23.727	2.3567	1.8797	20	-0.56	021.43	0
021	Cobalt (mg / kg (ppm))	0208	22.600	3.0000	23.727	2.3567	1.8797	20	-0.48	021.31	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
021	Cobalt (mg / kg (ppm))	0186	22.950	2.3000	23.727	2.3567	1.8797	20	-0.33	021.52	0
021	Cobalt (mg / kg (ppm))	2113	23.000	2.0000	23.727	2.3567	1.8797	20	-0.31	021.52	0
021	Cobalt (mg / kg (ppm))	0160	23.250	1.3000	23.727	2.3567	1.8797	20	-0.20	021.42	0
021	Cobalt (mg / kg (ppm))	0186	23.650	2.5000	23.727	2.3567	1.8797	20	-0.03	021.42	0
021	Cobalt (mg / kg (ppm))	0047	23.665	2.2100	23.727	2.3567	1.8797	20	-0.03	021.52	0
021	Cobalt (mg / kg (ppm))	0227	24.000	2.0000	23.727	2.3567	1.8797	20	0.12	021.31	0
021	Cobalt (mg / kg (ppm))	0964	24.670	0.45630	23.727	2.3567	1.8797	20	0.40	021.43	0
021	Cobalt (mg / kg (ppm))	0027	24.748	4.9220	23.727	2.3567	1.8797	20	0.43	021.43	0
021	Cobalt (mg / kg (ppm))	0964	24.804	0.78940	23.727	2.3567	1.8797	20	0.46	021.41	0
021	Cobalt (mg / kg (ppm))	0098	25.460	3.3000	23.727	2.3567	1.8797	20	0.74	021.43	0
021	Cobalt (mg / kg (ppm))	2141	25.465	0.69000	23.727	2.3567	1.8797	20	0.74	021.43	0
021	Cobalt (mg / kg (ppm))	0918	25.592	2.8360	23.727	2.3567	1.8797	20	0.79	021.53	0
021	Cobalt (mg / kg (ppm))	0563	25.988	3.0238	23.727	2.3567	1.8797	20	0.96	021.31	0
021	Cobalt (mg / kg (ppm))	2051	32.454	2.8056	23.727	2.3567	1.8797	20	3.70	021.53	0
021	Cobalt (mg / kg (ppm))	0870	296.55	3.5000	23.727	2.3567	1.8797	20	115.77	021.42	2
022	Copper (mg / kg (ppm))	0186	218.50	9.0000	248.28	17.320	6.4281	24	-1.72	022.52	0
022	Copper (mg / kg (ppm))	0202	224.80	9.2900	248.28	17.320	6.4281	24	-1.36	022.43	0
022	Copper (mg / kg (ppm))	2051	230.67	0.58300	248.28	17.320	6.4281	24	-1.02	022.53	0
022	Copper (mg / kg (ppm))	0208	231.15	4.7000	248.28	17.320	6.4281	24	-0.99	022.41	0
022	Copper (mg / kg (ppm))	0098	232.00	6.8000	248.28	17.320	6.4281	24	-0.94	022.53	0
022	Copper (mg / kg (ppm))	0510	237.00	2.0000	248.28	17.320	6.4281	24	-0.65	022.43	0
022	Copper (mg / kg (ppm))	0504	239.15	3.3000	248.28	17.320	6.4281	24	-0.53	022.33	0
022	Copper (mg / kg (ppm))	2033	242.00	8.0000	248.28	17.320	6.4281	24	-0.36	022.43	0
022	Copper (mg / kg (ppm))	0227	245.00	2.0000	248.28	17.320	6.4281	24	-0.19	022.41	0
022	Copper (mg / kg (ppm))	0047	246.10	31.000	248.28	17.320	6.4281	24	-0.13	022.52	0
022	Copper (mg / kg (ppm))	0870	247.10	4.0000	248.28	17.320	6.4281	24	-0.07	022.42	0
022	Copper (mg / kg (ppm))	0208	247.50	5.0000	248.28	17.320	6.4281	24	-0.05	022.31	0
022	Copper (mg / kg (ppm))	0964	248.26	9.8398	248.28	17.320	6.4281	24	0.00	022.41	0
022	Copper (mg / kg (ppm))	2113	250.00	0.00000	248.28	17.320	6.4281	24	0.10	022.52	0
022	Copper (mg / kg (ppm))	2141	251.00	6.0000	248.28	17.320	6.4281	24	0.16	022.43	0
022	Copper (mg / kg (ppm))	2058	252.01	15.720	248.28	17.320	6.4281	24	0.22	022.43	0
022	Copper (mg / kg (ppm))	0964	252.73	1.0850	248.28	17.320	6.4281	24	0.26	022.43	0
022	Copper (mg / kg (ppm))	0918	257.25	1.5000	248.28	17.320	6.4281	24	0.52	022.43	0
022	Copper (mg / kg (ppm))	0186	260.00	2.0000	248.28	17.320	6.4281	24	0.68	022.42	0
022	Copper (mg / kg (ppm))	0504	263.10	9.8000	248.28	17.320	6.4281	24	0.86	022.32	0
022	Copper (mg / kg (ppm))	0027	265.06	7.6470	248.28	17.320	6.4281	24	0.97	022.43	0
022	Copper (mg / kg (ppm))	2129	269.50	2.0000	248.28	17.320	6.4281	24	1.22	022.42	0
022	Copper (mg / kg (ppm))	0563	270.89	6.9290	248.28	17.320	6.4281	24	1.30	022.31	0
022	Copper (mg / kg (ppm))	0407	287.13	6.0804	248.28	17.320	6.4281	24	2.24	022.41	0
022	Copper (mg / kg (ppm))	0160	256.00	46.000	248.28	17.320	6.4281	24	0.45	022.42	1
023	Fluorine (mg / kg (ppm))	2033	38.450	4.9000			4.2000	2		023.01	0

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023	Fluorine (mg / kg (ppm))	0208	40.650	3.5000			4.2000	2		023.01	0
024	Iodine (mg / kg (ppm))	0160	1.5800	0.12000	2.3650	0.33235	0.17000	3		024.52	0
024	Iodine (mg / kg (ppm))	0208	1.9950	0.07000	2.3650	0.33235	0.17000	3		024.99	0
024	Iodine (mg / kg (ppm))	2033	3.5200	0.32000	2.3650	0.33235	0.17000	3		024.53	0
034	Selenium (mg / kg (ppm))	0278	1.0395	0.10100	3.1953	0.42915	0.16616	17	-5.02	034.43	0
034	Selenium (mg / kg (ppm))	0186	2.6200	0.18000	3.1953	0.42915	0.16616	17	-1.34	034.52	0
034	Selenium (mg / kg (ppm))	0047	2.6800	0.20000	3.1953	0.42915	0.16616	17	-1.20	034.52	0
034	Selenium (mg / kg (ppm))	0227	2.6950	0.03000	3.1953	0.42915	0.16616	17	-1.17	034.04	0
034	Selenium (mg / kg (ppm))	0033	2.8000	0.18000	3.1953	0.42915	0.16616	17	-0.92	034.53	0
034	Selenium (mg / kg (ppm))	0208	2.9100	0.06000	3.1953	0.42915	0.16616	17	-0.66	034.52	0
034	Selenium (mg / kg (ppm))	2058	2.9800	0.40000	3.1953	0.42915	0.16616	17	-0.50	034.53	0
034	Selenium (mg / kg (ppm))	0563	2.9807	0.03870	3.1953	0.42915	0.16616	17	-0.50	034.04	0
034	Selenium (mg / kg (ppm))	2033	3.0850	0.03000	3.1953	0.42915	0.16616	17	-0.26	034.53	0
034	Selenium (mg / kg (ppm))	0160	3.1350	0.05000	3.1953	0.42915	0.16616	17	-0.14	034.52	0
034	Selenium (mg / kg (ppm))	0918	3.4010	0.23810	3.1953	0.42915	0.16616	17	0.48	034.53	0
034	Selenium (mg / kg (ppm))	0098	3.5090	0.12200	3.1953	0.42915	0.16616	17	0.73	034.53	0
034	Selenium (mg / kg (ppm))	0964	3.6681	0.19750	3.1953	0.42915	0.16616	17	1.10	034.43	0
034	Selenium (mg / kg (ppm))	2141	3.8000	0.04000	3.1953	0.42915	0.16616	17	1.41	034.43	0
034	Selenium (mg / kg (ppm))	2051	3.8237	0.04440	3.1953	0.42915	0.16616	17	1.46	034.53	0
034	Selenium (mg / kg (ppm))	0870	3.8415	0.11300	3.1953	0.42915	0.16616	17	1.51	034.42	0
034	Selenium (mg / kg (ppm))	2113	4.4000	0.80000	3.1953	0.42915	0.16616	17	2.81	034.52	0
034	Selenium (mg / kg (ppm))	0027	3.5875	1.1150	3.1953	0.42915	0.16616	17	0.91	034.43	1
036	Sulfur (%)	0202	0.33500	0.01000	0.39393	0.01813	0.00753	16	-3.25	036.43	0
036	Sulfur (%)	2051	0.34615	0.00010	0.39393	0.01813	0.00753	16	-2.64	036.42	0
036	Sulfur (%)	0186	0.36150	0.00500	0.39393	0.01813	0.00753	16	-1.79	036.52	0
036	Sulfur (%)	0870	0.37130	0.01260	0.39393	0.01813	0.00753	16	-1.25	036.42	0
036	Sulfur (%)	2141	0.37500	0.01000	0.39393	0.01813	0.00753	16	-1.04	036.43	0
036	Sulfur (%)	2129	0.39325	0.00290	0.39393	0.01813	0.00753	16	-0.04	036.42	0
036	Sulfur (%)	0407	0.39350	0.00920	0.39393	0.01813	0.00753	16	-0.02	036.42	0
036	Sulfur (%)	0227	0.39500	0.01000	0.39393	0.01813	0.00753	16	0.06	036.53	0
036	Sulfur (%)	0160	0.39610	0.01100	0.39393	0.01813	0.00753	16	0.12	036.42	0
036	Sulfur (%)	0918	0.39900	0.00200	0.39393	0.01813	0.00753	16	0.28	036.43	0
036	Sulfur (%)	0510	0.40000	0.00000	0.39393	0.01813	0.00753	16	0.33	036.43	0
036	Sulfur (%)	0208	0.40350	0.02500	0.39393	0.01813	0.00753	16	0.53	036.00	0
036	Sulfur (%)	0964	0.41970	0.00060	0.39393	0.01813	0.00753	16	1.42	036.43	0
036	Sulfur (%)	0186	0.42700	0.00800	0.39393	0.01813	0.00753	16	1.82	036.42	0
036	Sulfur (%)	0098	0.43400	0.01400	0.39393	0.01813	0.00753	16	2.21	036.43	0
036	Sulfur (%)	2033	0.50000	0.00000	0.39393	0.01813	0.00753	16	5.85	036.43	0
038	Molybdenum (mg / kg (ppm))	0098	0.88200	0.03800	1.2983	0.19969	0.07574	17	-2.08	038.53	0
038	Molybdenum (mg / kg (ppm))	0047	0.93500	0.01000	1.2983	0.19969	0.07574	17	-1.82	038.52	0
038	Molybdenum (mg / kg (ppm))	0918	1.0096	0.08490	1.2983	0.19969	0.07574	17	-1.45	038.53	0

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038	Molybdenum (mg / kg (ppm))	2051	1.1346	0.01110	1.2983	0.19969	0.07574	17	-0.82	038.53	0
038	Molybdenum (mg / kg (ppm))	0964	1.2092	0.02680	1.2983	0.19969	0.07574	17	-0.45	038.41	0
038	Molybdenum (mg / kg (ppm))	0208	1.2350	0.35000	1.2983	0.19969	0.07574	17	-0.32	038.41	0
038	Molybdenum (mg / kg (ppm))	0964	1.2570	0.04530	1.2983	0.19969	0.07574	17	-0.21	038.43	0
038	Molybdenum (mg / kg (ppm))	0160	1.3000	0.00000	1.2983	0.19969	0.07574	17	0.01	038.42	0
038	Molybdenum (mg / kg (ppm))	2141	1.3000	0.00000	1.2983	0.19969	0.07574	17	0.01	038.43	0
038	Molybdenum (mg / kg (ppm))	0407	1.3453	0.09250	1.2983	0.19969	0.07574	17	0.23	038.41	0
038	Molybdenum (mg / kg (ppm))	2113	1.3500	0.30000	1.2983	0.19969	0.07574	17	0.26	038.52	0
038	Molybdenum (mg / kg (ppm))	0186	1.3650	0.03000	1.2983	0.19969	0.07574	17	0.33	038.52	0
038	Molybdenum (mg / kg (ppm))	0033	1.3750	0.11000	1.2983	0.19969	0.07574	17	0.38	038.53	0
038	Molybdenum (mg / kg (ppm))	2033	1.4900	0.06000	1.2983	0.19969	0.07574	17	0.96	038.43	0
038	Molybdenum (mg / kg (ppm))	0510	1.5000	0.00000	1.2983	0.19969	0.07574	17	1.01	038.43	0
038	Molybdenum (mg / kg (ppm))	0227	1.7500	0.10000	1.2983	0.19969	0.07574	17	2.26	038.33	0
038	Molybdenum (mg / kg (ppm))	0870	1.8155	0.02900	1.2983	0.19969	0.07574	17	2.59	038.42	0
038	Molybdenum (mg / kg (ppm))	0563	8.0853	0.37590	1.2983	0.19969	0.07574	17	33.99	038.34	2
041	Vanadium (mg / kg (ppm))	0278	8.2150	0.29000	10.158	1.1463	0.55636	8	-1.69	041.43	0
041	Vanadium (mg / kg (ppm))	0047	9.3750	0.17000	10.158	1.1463	0.55636	8	-0.68	041.52	0
041	Vanadium (mg / kg (ppm))	2033	9.5600	0.32000	10.158	1.1463	0.55636	8	-0.52	041.43	0
041	Vanadium (mg / kg (ppm))	2113	9.7000	0.20000	10.158	1.1463	0.55636	8	-0.40	041.52	0
041	Vanadium (mg / kg (ppm))	0870	10.590	0.54000	10.158	1.1463	0.55636	8	0.38	041.42	0
041	Vanadium (mg / kg (ppm))	0160	10.600	1.4000	10.158	1.1463	0.55636	8	0.39	041.42	0
041	Vanadium (mg / kg (ppm))	0098	11.000	1.1200	10.158	1.1463	0.55636	8	0.73	041.43	0
041	Vanadium (mg / kg (ppm))	0563	12.599	0.41090	10.158	1.1463	0.55636	8	2.13	041.34	0
516	Arsenic, total (mg / kg (ppm))	0563	17.245	1.6617	45.547	4.1010	1.9074	20	-6.90	516.00	0
516	Arsenic, total (mg / kg (ppm))	0278	36.350	0.70000	45.547	4.1010	1.9074	20	-2.24	516.43	0
516	Arsenic, total (mg / kg (ppm))	2058	38.875	0.99000	45.547	4.1010	1.9074	20	-1.63	516.43	0
516	Arsenic, total (mg / kg (ppm))	0186	40.850	3.1000	45.547	4.1010	1.9074	20	-1.15	516.52	0
516	Arsenic, total (mg / kg (ppm))	0227	41.300	2.6000	45.547	4.1010	1.9074	20	-1.04	516.53	0
516	Arsenic, total (mg / kg (ppm))	0186	41.600	3.2000	45.547	4.1010	1.9074	20	-0.96	516.42	0
516	Arsenic, total (mg / kg (ppm))	0033	41.950	0.70000	45.547	4.1010	1.9074	20	-0.88	516.53	0
516	Arsenic, total (mg / kg (ppm))	0870	42.920	3.5800	45.547	4.1010	1.9074	20	-0.64	516.42	0
516	Arsenic, total (mg / kg (ppm))	0043	43.100	0.20000	45.547	4.1010	1.9074	20	-0.60	516.43	0
516	Arsenic, total (mg / kg (ppm))	0208	43.550	2.5000	45.547	4.1010	1.9074	20	-0.49	516.52	0
516	Arsenic, total (mg / kg (ppm))	0047	44.970	1.6200	45.547	4.1010	1.9074	20	-0.14	516.52	0
516	Arsenic, total (mg / kg (ppm))	0160	46.450	1.9000	45.547	4.1010	1.9074	20	0.22	516.42	0
516	Arsenic, total (mg / kg (ppm))	0098	46.470	1.1400	45.547	4.1010	1.9074	20	0.23	516.53	0
516	Arsenic, total (mg / kg (ppm))	0918	48.805	4.2500	45.547	4.1010	1.9074	20	0.79	516.53	0
516	Arsenic, total (mg / kg (ppm))	0027	50.268	1.1780	45.547	4.1010	1.9074	20	1.15	516.43	0
516	Arsenic, total (mg / kg (ppm))	0425	50.620	0.22000	45.547	4.1010	1.9074	20	1.24	516.34	0
516	Arsenic, total (mg / kg (ppm))	0964	51.582	1.5929	45.547	4.1010	1.9074	20	1.47	516.43	0
516	Arsenic, total (mg / kg (ppm))	2113	54.500	3.0000	45.547	4.1010	1.9074	20	2.18	516.52	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
516	Arsenic, total (mg / kg (ppm))	2141	55.680	3.9000	45.547	4.1010	1.9074	20	2.47	516.43	0
516	Arsenic, total (mg / kg (ppm))	2051	58.761	0.11460	45.547	4.1010	1.9074	20	3.22	516.53	0
516	Arsenic, total (mg / kg (ppm))	2033	50.800	11.600	45.547	4.1010	1.9074	20	1.28	516.53	1
518	Cadmium (mg / kg (ppm))	0407	6.9009	0.08850	8.8202	1.0167	0.42870	22	-1.89	518.41	0
518	Cadmium (mg / kg (ppm))	2058	8.0200	0.14000	8.8202	1.0167	0.42870	22	-0.79	518.53	0
518	Cadmium (mg / kg (ppm))	0278	8.0250	0.77000	8.8202	1.0167	0.42870	22	-0.78	518.43	0
518	Cadmium (mg / kg (ppm))	2141	8.0500	0.30000	8.8202	1.0167	0.42870	22	-0.76	518.43	0
518	Cadmium (mg / kg (ppm))	0043	8.0550	0.05000	8.8202	1.0167	0.42870	22	-0.75	518.43	0
518	Cadmium (mg / kg (ppm))	0098	8.1650	0.95000	8.8202	1.0167	0.42870	22	-0.64	518.53	0
518	Cadmium (mg / kg (ppm))	0186	8.2350	0.43000	8.8202	1.0167	0.42870	22	-0.58	518.52	0
518	Cadmium (mg / kg (ppm))	0227	8.2350	0.37000	8.8202	1.0167	0.42870	22	-0.58	518.53	0
518	Cadmium (mg / kg (ppm))	0047	8.6050	0.35000	8.8202	1.0167	0.42870	22	-0.21	518.52	0
518	Cadmium (mg / kg (ppm))	0160	8.7000	0.72000	8.8202	1.0167	0.42870	22	-0.12	518.42	0
518	Cadmium (mg / kg (ppm))	2051	8.8827	0.36250	8.8202	1.0167	0.42870	22	0.06	518.53	0
518	Cadmium (mg / kg (ppm))	0033	8.9600	0.52000	8.8202	1.0167	0.42870	22	0.14	518.53	0
518	Cadmium (mg / kg (ppm))	0186	8.9750	0.25000	8.8202	1.0167	0.42870	22	0.15	518.42	0
518	Cadmium (mg / kg (ppm))	0563	9.0476	0.06660	8.8202	1.0167	0.42870	22	0.22	518.31	0
518	Cadmium (mg / kg (ppm))	0918	9.0982	0.01960	8.8202	1.0167	0.42870	22	0.27	518.53	0
518	Cadmium (mg / kg (ppm))	0964	9.1095	0.07920	8.8202	1.0167	0.42870	22	0.28	518.43	0
518	Cadmium (mg / kg (ppm))	0870	9.1335	0.58100	8.8202	1.0167	0.42870	22	0.31	518.42	0
518	Cadmium (mg / kg (ppm))	2033	9.3400	1.3000	8.8202	1.0167	0.42870	22	0.51	518.53	0
518	Cadmium (mg / kg (ppm))	0208	9.8350	1.5300	8.8202	1.0167	0.42870	22	1.00	518.52	0
518	Cadmium (mg / kg (ppm))	0027	9.8840	0.23400	8.8202	1.0167	0.42870	22	1.05	518.43	0
518	Cadmium (mg / kg (ppm))	0425	10.370	0.32000	8.8202	1.0167	0.42870	22	1.52	518.34	0
518	Cadmium (mg / kg (ppm))	2113	11.000	0.00000	8.8202	1.0167	0.42870	22	2.14	518.52	0
520	Chromium (mg / kg (ppm))	0870	28.865	1.2300	246.44	17.211	13.106	18	-12.64	520.42	0
520	Chromium (mg / kg (ppm))	0278	200.90	4.4000	246.44	17.211	13.106	18	-2.65	520.43	0
520	Chromium (mg / kg (ppm))	0186	221.00	26.000	246.44	17.211	13.106	18	-1.48	520.52	0
520	Chromium (mg / kg (ppm))	0918	228.54	31.138	246.44	17.211	13.106	18	-1.04	520.53	0
520	Chromium (mg / kg (ppm))	0510	234.40	0.00000	246.44	17.211	13.106	18	-0.70	520.43	0
520	Chromium (mg / kg (ppm))	0033	237.00	18.000	246.44	17.211	13.106	18	-0.55	520.53	0
520	Chromium (mg / kg (ppm))	0047	239.85	9.3000	246.44	17.211	13.106	18	-0.38	520.52	0
520	Chromium (mg / kg (ppm))	2113	245.00	10.000	246.44	17.211	13.106	18	-0.08	520.52	0
520	Chromium (mg / kg (ppm))	0964	250.77	20.066	246.44	17.211	13.106	18	0.25	520.43	0
520	Chromium (mg / kg (ppm))	2058	252.54	3.6200	246.44	17.211	13.106	18	0.35	520.43	0
520	Chromium (mg / kg (ppm))	2051	253.85	4.8054	246.44	17.211	13.106	18	0.43	520.53	0
520	Chromium (mg / kg (ppm))	0027	254.27	18.120	246.44	17.211	13.106	18	0.45	520.43	0
520	Chromium (mg / kg (ppm))	0227	256.00	6.0000	246.44	17.211	13.106	18	0.56	520.31	0
520	Chromium (mg / kg (ppm))	0098	256.00	4.0000	246.44	17.211	13.106	18	0.56	520.43	0
520	Chromium (mg / kg (ppm))	2141	257.00	36.000	246.44	17.211	13.106	18	0.61	520.43	0
520	Chromium (mg / kg (ppm))	0160	264.00	12.000	246.44	17.211	13.106	18	1.02	520.42	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
520	Chromium (mg / kg (ppm))	0563	302.27	3.2314	246.44	17.211	13.106	18	3.24	520.31	0
520	Chromium (mg / kg (ppm))	0208	315.00	28.000	246.44	17.211	13.106	18	3.98	520.41	0
526	Lead (mg / kg (ppm))	0047	3.5050	0.01000	4.6581	0.59111	0.31845	20	-1.95	526.52	0
526	Lead (mg / kg (ppm))	0407	3.6593	0.05240	4.6581	0.59111	0.31845	20	-1.69	526.41	0
526	Lead (mg / kg (ppm))	0186	3.9100	0.28000	4.6581	0.59111	0.31845	20	-1.27	526.42	0
526	Lead (mg / kg (ppm))	2113	4.1500	0.50000	4.6581	0.59111	0.31845	20	-0.86	526.52	0
526	Lead (mg / kg (ppm))	0033	4.3000	0.36000	4.6581	0.59111	0.31845	20	-0.61	526.53	0
526	Lead (mg / kg (ppm))	0278	4.3500	0.06000	4.6581	0.59111	0.31845	20	-0.52	526.43	0
526	Lead (mg / kg (ppm))	2058	4.4250	0.29000	4.6581	0.59111	0.31845	20	-0.39	526.53	0
526	Lead (mg / kg (ppm))	0043	4.6200	0.08000	4.6581	0.59111	0.31845	20	-0.06	526.43	0
526	Lead (mg / kg (ppm))	0208	4.6550	0.67000	4.6581	0.59111	0.31845	20	-0.01	526.52	0
526	Lead (mg / kg (ppm))	0964	4.7094	0.28660	4.6581	0.59111	0.31845	20	0.09	526.43	0
526	Lead (mg / kg (ppm))	0227	4.7400	0.48000	4.6581	0.59111	0.31845	20	0.14	526.53	0
526	Lead (mg / kg (ppm))	0098	4.7450	0.73000	4.6581	0.59111	0.31845	20	0.15	526.53	0
526	Lead (mg / kg (ppm))	2033	4.8750	0.23000	4.6581	0.59111	0.31845	20	0.37	526.53	0
526	Lead (mg / kg (ppm))	2141	4.9050	0.69000	4.6581	0.59111	0.31845	20	0.42	526.43	0
526	Lead (mg / kg (ppm))	0870	4.9635	0.09700	4.6581	0.59111	0.31845	20	0.52	526.42	0
526	Lead (mg / kg (ppm))	0563	5.0554	0.56460	4.6581	0.59111	0.31845	20	0.67	526.31	0
526	Lead (mg / kg (ppm))	0425	5.1150	0.01000	4.6581	0.59111	0.31845	20	0.77	526.34	0
526	Lead (mg / kg (ppm))	0027	5.2365	0.73700	4.6581	0.59111	0.31845	20	0.98	526.43	0
526	Lead (mg / kg (ppm))	0918	5.2460	0.17060	4.6581	0.59111	0.31845	20	0.99	526.53	0
526	Lead (mg / kg (ppm))	2051	5.5434	0.07070	4.6581	0.59111	0.31845	20	1.50	526.53	0
529	Mercury (µg / kg (ppb))	0186	25,661	2,645.0	29,730	2,854.3	1,781.1	9	-1.43	529.99	0
529	Mercury (µg / kg (ppb))	0227	27,750	700.00	29,730	2,854.3	1,781.1	9	-0.69	529.99	0
529	Mercury (µg / kg (ppb))	2051	27,930	1,861.6	29,730	2,854.3	1,781.1	9	-0.63	529.99	0
529	Mercury (µg / kg (ppb))	0033	28,350	1,100.0	29,730	2,854.3	1,781.1	9	-0.48	529.99	0
529	Mercury (µg / kg (ppb))	2033	29,000	2,000.0	29,730	2,854.3	1,781.1	9	-0.26	529.99	0
529	Mercury (µg / kg (ppb))	0160	30,100	1,200.0	29,730	2,854.3	1,781.1	9	0.13	529.00	0
529	Mercury (µg / kg (ppb))	0918	30,247	1,258.0	29,730	2,854.3	1,781.1	9	0.18	529.99	0
529	Mercury (µg / kg (ppb))	0563	33,838	4,924.1	29,730	2,854.3	1,781.1	9	1.44	529.99	0
529	Mercury (µg / kg (ppb))	0425	36,471	341.00	29,730	2,854.3	1,781.1	9	2.36	529.00	0
529	Mercury (µg / kg (ppb))	0047	24.075	2.0300	29,730	2,854.3	1,781.1	9	-10.41	529.99	3
529	Mercury (µg / kg (ppb))	0034	30.175	2.6500	29,730	2,854.3	1,781.1	9	-10.41	529.99	3
539	Nickel (mg / kg (ppm))	0098	1.2650	0.03000	2.4099	0.33770	0.15003	15	-3.39	539.53	0
539	Nickel (mg / kg (ppm))	2051	1.2684	0.01800	2.4099	0.33770	0.15003	15	-3.38	539.53	0
539	Nickel (mg / kg (ppm))	2113	1.4000	0.40000	2.4099	0.33770	0.15003	15	-2.99	539.52	0
539	Nickel (mg / kg (ppm))	0918	1.4566	0.02470	2.4099	0.33770	0.15003	15	-2.82	539.53	0
539	Nickel (mg / kg (ppm))	0047	1.5550	0.19000	2.4099	0.33770	0.15003	15	-2.53	539.52	0
539	Nickel (mg / kg (ppm))	2033	1.9000	0.08000	2.4099	0.33770	0.15003	15	-1.51	539.43	0
539	Nickel (mg / kg (ppm))	0227	2.2000	0.00000	2.4099	0.33770	0.15003	15	-0.62	539.33	0
539	Nickel (mg / kg (ppm))	2141	2.4650	0.31000	2.4099	0.33770	0.15003	15	0.16	539.43	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
539	Nickel (mg / kg (ppm))	0407	2.6750	0.00350	2.4099	0.33770	0.15003	15	**0.78**	539.41	0
539	Nickel (mg / kg (ppm))	0278	2.8250	0.05000	2.4099	0.33770	0.15003	15	**1.23**	539.43	0
539	Nickel (mg / kg (ppm))	0186	2.9150	0.01000	2.4099	0.33770	0.15003	15	**1.50**	539.52	0
539	Nickel (mg / kg (ppm))	0027	3.3810	0.29200	2.4099	0.33770	0.15003	15	**2.88**	539.43	0
539	Nickel (mg / kg (ppm))	0964	3.3872	0.16120	2.4099	0.33770	0.15003	15	**2.89**	539.43	0
539	Nickel (mg / kg (ppm))	0160	3.5000	0.60000	2.4099	0.33770	0.15003	15	**3.23**	539.42	0
539	Nickel (mg / kg (ppm))	0870	4.7365	0.08100	2.4099	0.33770	0.15003	15	**6.89**	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, 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.