



AAFCO
Proficiency Testing Program



Minerals Scheme

Tortoise Feed

Test Material Code # 202154

Labs Reporting: 31

Analytes Reported 17

Issue Date : 01/31/2022

Analyte Proficiency Testing Report

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 (ppm)	2302	89.00	0.0000	187.3	13.63	5.022	19	-7.21	015.99	0
015	Aluminum (ppm)	0510	158.5	5.000	187.3	13.63	5.022	19	-2.11	015.43	0
015	Aluminum (ppm)	0186	161.8	7.000	187.3	13.63	5.022	19	-1.87	015.52	0
015	Aluminum (ppm)	2207	171.0	0.0000	187.3	13.63	5.022	19	-1.20	015.42	0
015	Aluminum (ppm)	0208	177.0	0.0000	187.3	13.63	5.022	19	-0.76	015.41	0
015	Aluminum (ppm)	0407	182.3	7.813	187.3	13.63	5.022	19	-0.37	015.41	0
015	Aluminum (ppm)	0870	183.8	11.66	187.3	13.63	5.022	19	-0.25	015.43	0
015	Aluminum (ppm)	0511	185.5	1.000	187.3	13.63	5.022	19	-0.13	015.43	0
015	Aluminum (ppm)	0407	185.9	15.83	187.3	13.63	5.022	19	-0.10	015.53	0
015	Aluminum (ppm)	0918	186.7	18.21	187.3	13.63	5.022	19	-0.04	015.53	0
015	Aluminum (ppm)	2033	192.8	0.0000	187.3	13.63	5.022	19	0.40	015.43	0
015	Aluminum (ppm)	0098	192.9	1.900	187.3	13.63	5.022	19	0.41	015.43	0
015	Aluminum (ppm)	2292	195.5	1.000	187.3	13.63	5.022	19	0.60	015.99	0
015	Aluminum (ppm)	0629	197.0	2.000	187.3	13.63	5.022	19	0.71	015.43	0
015	Aluminum (ppm)	0553	199.0	12.00	187.3	13.63	5.022	19	0.86	015.53	0
015	Aluminum (ppm)	0021	200.0	0.0000	187.3	13.63	5.022	19	0.93	015.43	0
015	Aluminum (ppm)	0964	206.0	4.000	187.3	13.63	5.022	19	1.37	015.43	0
015	Aluminum (ppm)	0227	207.5	5.000	187.3	13.63	5.022	19	1.48	015.41	0
015	Aluminum (ppm)	0042	212.5	3.000	187.3	13.63	5.022	19	1.85	015.42	0
017	Boron (ppm)	0510	143.0	2.000	163.2	12.13	7.944	11	-1.67	017.43	0
017	Boron (ppm)	0629	148.0	2.000	163.2	12.13	7.944	11	-1.26	017.43	0
017	Boron (ppm)	0098	155.4	1.800	163.2	12.13	7.944	11	-0.65	017.43	0
017	Boron (ppm)	0407	158.6	0.6223	163.2	12.13	7.944	11	-0.38	017.41	0
017	Boron (ppm)	0407	160.1	11.95	163.2	12.13	7.944	11	-0.26	017.53	0
017	Boron (ppm)	2033	161.4	0.0000	163.2	12.13	7.944	11	-0.15	017.43	0
017	Boron (ppm)	0870	164.0	3.095	163.2	12.13	7.944	11	0.06	017.43	0
017	Boron (ppm)	0021	165.0	10.00	163.2	12.13	7.944	11	0.15	017.43	0
017	Boron (ppm)	0553	176.5	27.00	163.2	12.13	7.944	11	1.09	017.53	0
017	Boron (ppm)	2207	178.7	6.900	163.2	12.13	7.944	11	1.27	017.42	0
017	Boron (ppm)	0918	186.3	22.02	163.2	12.13	7.944	11	1.90	017.43	0
021	Cobalt (ppm)	2113	0.7350	0.0100	1.211	0.1882	0.0408	20	-2.53	021.52	0
021	Cobalt (ppm)	0042	0.7625	0.0090	1.211	0.1882	0.0408	20	-2.38	021.42	0
021	Cobalt (ppm)	2207	0.8150	0.0300	1.211	0.1882	0.0408	20	-2.10	021.52	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			
021	Cobalt (ppm)	0910	0.8700	0.0200	1.211	0.1882	0.0408	20	-1.81	021.52	0
021	Cobalt (ppm)	2302	1.000	0.0000	1.211	0.1882	0.0408	20	-1.12	021.99	0
021	Cobalt (ppm)	0227	1.100	0.0000	1.211	0.1882	0.0408	20	-0.59	021.41	0
021	Cobalt (ppm)	0918	1.115	0.0300	1.211	0.1882	0.0408	20	-0.51	021.53	0
021	Cobalt (ppm)	0629	1.210	0.0200	1.211	0.1882	0.0408	20	0.00	021.43	0
021	Cobalt (ppm)	0964	1.255	0.0100	1.211	0.1882	0.0408	20	0.23	021.43	0
021	Cobalt (ppm)	0033	1.255	0.0500	1.211	0.1882	0.0408	20	0.23	021.53	0
021	Cobalt (ppm)	0510	1.270	0.0000	1.211	0.1882	0.0408	20	0.31	021.43	0
021	Cobalt (ppm)	0098	1.270	0.1480	1.211	0.1882	0.0408	20	0.31	021.53	0
021	Cobalt (ppm)	0553	1.340	0.1800	1.211	0.1882	0.0408	20	0.69	021.53	0
021	Cobalt (ppm)	0208	1.355	0.0700	1.211	0.1882	0.0408	20	0.77	021.31	0
021	Cobalt (ppm)	0407	1.388	0.0002	1.211	0.1882	0.0408	20	0.94	021.41	0
021	Cobalt (ppm)	0021	1.400	0.0000	1.211	0.1882	0.0408	20	1.00	021.53	0
021	Cobalt (ppm)	0870	1.433	0.0016	1.211	0.1882	0.0408	20	1.18	021.43	0
021	Cobalt (ppm)	0407	1.499	0.0775	1.211	0.1882	0.0408	20	1.53	021.53	0
021	Cobalt (ppm)	0186	1.510	0.1600	1.211	0.1882	0.0408	20	1.59	021.52	0
021	Cobalt (ppm)	2033	1.540	0.0000	1.211	0.1882	0.0408	20	1.75	021.43	0
021	Cobalt (ppm)	0021	< 2		1.211	0.1882	0.0408	20		021.43	5
021	Cobalt (ppm)	2141	< 5		1.211	0.1882	0.0408	20		021.43	5
022	Copper (ppm)	0510	425.5	1.000	473.6	29.98	15.03	29	-1.60	022.43	0
022	Copper (ppm)	2113	435.0	30.00	473.6	29.98	15.03	29	-1.29	022.52	0
022	Copper (ppm)	0407	445.1	10.36	473.6	29.98	15.03	29	-0.95	022.41	0
022	Copper (ppm)	0208	447.6	27.40	473.6	29.98	15.03	29	-0.87	022.41	0
022	Copper (ppm)	0910	451.5	15.00	473.6	29.98	15.03	29	-0.74	022.41	0
022	Copper (ppm)	0186	452.5	11.00	473.6	29.98	15.03	29	-0.70	022.52	0
022	Copper (ppm)	0511	456.0	2.000	473.6	29.98	15.03	29	-0.59	022.43	0
022	Copper (ppm)	0227	459.5	5.000	473.6	29.98	15.03	29	-0.47	022.41	0
022	Copper (ppm)	0407	462.2	63.55	473.6	29.98	15.03	29	-0.38	022.53	0
022	Copper (ppm)	0563	464.8	4.133	473.6	29.98	15.03	29	-0.29	022.31	0
022	Copper (ppm)	0553	468.5	15.00	473.6	29.98	15.03	29	-0.17	022.53	0
022	Copper (ppm)	0629	471.0	4.000	473.6	29.98	15.03	29	-0.09	022.43	0
022	Copper (ppm)	0918	471.4	45.56	473.6	29.98	15.03	29	-0.07	022.43	0
022	Copper (ppm)	0278	473.6	0.0000	473.6	29.98	15.03	29	0.00	022.42	0
022	Copper (ppm)	0021	475.0	10.00	473.6	29.98	15.03	29	0.05	022.53	0
022	Copper (ppm)	0098	476.0	21.00	473.6	29.98	15.03	29	0.08	022.53	0
022	Copper (ppm)	0208	476.5	29.00	473.6	29.98	15.03	29	0.10	022.31	0
022	Copper (ppm)	0870	477.7	14.94	473.6	29.98	15.03	29	0.14	022.43	0
022	Copper (ppm)	0529	479.8	13.00	473.6	29.98	15.03	29	0.21	022.31	0
022	Copper (ppm)	2207	482.0	10.00	473.6	29.98	15.03	29	0.28	022.42	0
022	Copper (ppm)	2302	487.0	0.0000	473.6	29.98	15.03	29	0.45	022.99	0
022	Copper (ppm)	2292	489.5	1.000	473.6	29.98	15.03	29	0.53	022.99	0
022	Copper (ppm)	2114	491.0	6.898	473.6	29.98	15.03	29	0.58	022.99	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
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022	Copper (ppm)	0017	493.0	9.946	473.6	29.98	15.03	29	0.65	022.43	0
022	Copper (ppm)	0021	495.0	10.00	473.6	29.98	15.03	29	0.71	022.43	0
022	Copper (ppm)	0964	495.5	43.00	473.6	29.98	15.03	29	0.73	022.43	0
022	Copper (ppm)	0010	500.0	24.00	473.6	29.98	15.03	29	0.88	022.33	0
022	Copper (ppm)	2141	503.5	9.000	473.6	29.98	15.03	29	1.00	022.43	0
022	Copper (ppm)	2033	530.6	0.0000	473.6	29.98	15.03	29	1.90	022.43	0
023	Fluorine (ppm)	2033	25.50	0.0000				2		023.01	0
023	Fluorine (ppm)	0227	33.00	0.0000				2		023.01	0
024	Iodine (ppm)	0208	1.320	0.1800				1		024.99	0
024	Iodine (ppm)	0186	< 5					1		024.52	5
034	Selenium, Total (Se) (ppm)	0629	1.850	0.0800	3.084	0.4165	0.1402	19	-2.96	034.43	0
034	Selenium, Total (Se) (ppm)	2114	2.029	0.1175	3.084	0.4165	0.1402	19	-2.53	034.43	0
034	Selenium, Total (Se) (ppm)	2207	2.650	0.1000	3.084	0.4165	0.1402	19	-1.04	034.52	0
034	Selenium, Total (Se) (ppm)	0553	2.815	0.1500	3.084	0.4165	0.1402	19	-0.65	034.53	0
034	Selenium, Total (Se) (ppm)	0098	2.824	0.2860	3.084	0.4165	0.1402	19	-0.62	034.53	0
034	Selenium, Total (Se) (ppm)	0563	2.837	0.1381	3.084	0.4165	0.1402	19	-0.59	034.04	0
034	Selenium, Total (Se) (ppm)	0021	2.900	0.2000	3.084	0.4165	0.1402	19	-0.44	034.53	0
034	Selenium, Total (Se) (ppm)	0227	2.935	0.0500	3.084	0.4165	0.1402	19	-0.36	034.04	0
034	Selenium, Total (Se) (ppm)	0407	2.956	0.1883	3.084	0.4165	0.1402	19	-0.31	034.53	0
034	Selenium, Total (Se) (ppm)	0511	3.000	0.0000	3.084	0.4165	0.1402	19	-0.20	034.43	0
034	Selenium, Total (Se) (ppm)	0964	3.020	0.1400	3.084	0.4165	0.1402	19	-0.15	034.43	0
034	Selenium, Total (Se) (ppm)	0033	3.040	0.2400	3.084	0.4165	0.1402	19	-0.11	034.53	0
034	Selenium, Total (Se) (ppm)	0010	3.050	0.7000	3.084	0.4165	0.1402	19	-0.08	034.53	0
034	Selenium, Total (Se) (ppm)	0918	3.395	0.0300	3.084	0.4165	0.1402	19	0.75	034.53	0
034	Selenium, Total (Se) (ppm)	0208	3.425	0.0900	3.084	0.4165	0.1402	19	0.82	034.52	0
034	Selenium, Total (Se) (ppm)	0870	3.495	0.1535	3.084	0.4165	0.1402	19	0.99	034.43	0
034	Selenium, Total (Se) (ppm)	2033	4.250	0.0000	3.084	0.4165	0.1402	19	2.80	034.53	0
034	Selenium, Total (Se) (ppm)	0910	4.900	0.0000	3.084	0.4165	0.1402	19	4.36	034.52	0
034	Selenium, Total (Se) (ppm)	2302	29.00	0.0000	3.084	0.4165	0.1402	19	62.23	034.99	0
034	Selenium, Total (Se) (ppm)	0186	7.541	2.539	3.084	0.4165	0.1402	19	10.70	034.52	1
034	Selenium, Total (Se) (ppm)	2141	< 5		3.084	0.4165	0.1402	19		034.43	5
034	Selenium, Total (Se) (ppm)	0042	< 12		3.084	0.4165	0.1402	19		034.42	5
034	Selenium, Total (Se) (ppm)	0021	< 22		3.084	0.4165	0.1402	19		034.43	5
036	Sulfur (%)	0629	0.1985	0.0010	0.2212	0.0111	0.0032	17	-2.05	036.43	0
036	Sulfur (%)	2141	0.1990	0.0035	0.2212	0.0111	0.0032	17	-2.01	036.43	0
036	Sulfur (%)	0407	0.2071	0.0025	0.2212	0.0111	0.0032	17	-1.28	036.42	0
036	Sulfur (%)	0553	0.2085	0.0030	0.2212	0.0111	0.0032	17	-1.15	036.53	0
036	Sulfur (%)	0186	0.2113	0.0002	0.2212	0.0111	0.0032	17	-0.90	036.52	0
036	Sulfur (%)	0186	0.2115	0.0092	0.2212	0.0111	0.0032	17	-0.88	036.42	0
036	Sulfur (%)	2207	0.2150	0.0100	0.2212	0.0111	0.0032	17	-0.56	036.42	0
036	Sulfur (%)	0278	0.2200	0.0000	0.2212	0.0111	0.0032	17	-0.11	036.42	0
036	Sulfur (%)	2033	0.2200	0.0000	0.2212	0.0111	0.0032	17	-0.11	036.43	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
036	Sulfur (%)	0870	0.2222	0.0017	0.2212	0.0111	0.0032	17	0.08	036.43	0
036	Sulfur (%)	0510	0.2250	0.0100	0.2212	0.0111	0.0032	17	0.34	036.43	0
036	Sulfur (%)	0098	0.2295	0.0010	0.2212	0.0111	0.0032	17	0.74	036.43	0
036	Sulfur (%)	0227	0.2300	0.0000	0.2212	0.0111	0.0032	17	0.79	036.42	0
036	Sulfur (%)	0964	0.2358	0.0041	0.2212	0.0111	0.0032	17	1.31	036.43	0
036	Sulfur (%)	0021	0.2400	0.0000	0.2212	0.0111	0.0032	17	1.69	036.43	0
036	Sulfur (%)	0918	0.2420	0.0080	0.2212	0.0111	0.0032	17	1.87	036.43	0
036	Sulfur (%)	2292	0.2645	0.0010	0.2212	0.0111	0.0032	17	3.90	036.99	0
036	Sulfur (%)	0910	1,854	46.00	0.2212	0.0111	0.0032	17	166939.25	036.42	2
036	Sulfur (%)	2302	< 0.2		0.2212	0.0111	0.0032	17		036.99	5
038	Molybdenum (ppm)	0563	87.81	12.47	137.4	10.48	7.226	25	-4.74	038.34	0
038	Molybdenum (ppm)	0510	123.3	3.000	137.4	10.48	7.226	25	-1.35	038.43	0
038	Molybdenum (ppm)	0407	126.4	0.6762	137.4	10.48	7.226	25	-1.05	038.41	0
038	Molybdenum (ppm)	0227	128.0	22.00	137.4	10.48	7.226	25	-0.90	038.53	0
038	Molybdenum (ppm)	0042	129.0	6.000	137.4	10.48	7.226	25	-0.81	038.42	0
038	Molybdenum (ppm)	2113	130.0	0.0000	137.4	10.48	7.226	25	-0.71	038.52	0
038	Molybdenum (ppm)	0910	133.3	0.0000	137.4	10.48	7.226	25	-0.39	038.52	0
038	Molybdenum (ppm)	0186	133.4	4.200	137.4	10.48	7.226	25	-0.39	038.52	0
038	Molybdenum (ppm)	0010	134.3	1.900	137.4	10.48	7.226	25	-0.31	038.53	0
038	Molybdenum (ppm)	0511	134.5	3.000	137.4	10.48	7.226	25	-0.28	038.43	0
038	Molybdenum (ppm)	0208	135.0	10.00	137.4	10.48	7.226	25	-0.23	038.41	0
038	Molybdenum (ppm)	0021	135.0	10.00	137.4	10.48	7.226	25	-0.23	038.53	0
038	Molybdenum (ppm)	0629	136.5	7.000	137.4	10.48	7.226	25	-0.09	038.43	0
038	Molybdenum (ppm)	0964	136.5	11.00	137.4	10.48	7.226	25	-0.09	038.43	0
038	Molybdenum (ppm)	0278	138.1	8.980	137.4	10.48	7.226	25	0.06	038.42	0
038	Molybdenum (ppm)	0870	138.3	4.667	137.4	10.48	7.226	25	0.08	038.43	0
038	Molybdenum (ppm)	0033	139.0	10.00	137.4	10.48	7.226	25	0.15	038.53	0
038	Molybdenum (ppm)	0407	141.3	18.99	137.4	10.48	7.226	25	0.37	038.53	0
038	Molybdenum (ppm)	0098	144.1	7.300	137.4	10.48	7.226	25	0.63	038.53	0
038	Molybdenum (ppm)	0553	145.0	4.000	137.4	10.48	7.226	25	0.72	038.53	0
038	Molybdenum (ppm)	2207	145.8	8.200	137.4	10.48	7.226	25	0.80	038.52	0
038	Molybdenum (ppm)	0021	150.0	0.0000	137.4	10.48	7.226	25	1.20	038.43	0
038	Molybdenum (ppm)	2033	154.9	0.0000	137.4	10.48	7.226	25	1.66	038.43	0
038	Molybdenum (ppm)	0918	187.3	9.270	137.4	10.48	7.226	25	4.75	038.53	0
038	Molybdenum (ppm)	2141	237.3	18.00	137.4	10.48	7.226	25	9.53	038.43	0
041	Vanadium (ppm)	0629	1.475	0.0100	1.824	0.2665	0.0353	8	-1.31	041.43	0
041	Vanadium (ppm)	0407	1.734	0.0079	1.824	0.2665	0.0353	8	-0.34	041.53	0
041	Vanadium (ppm)	0098	1.752	0.0730	1.824	0.2665	0.0353	8	-0.27	041.53	0
041	Vanadium (ppm)	0553	1.775	0.0100	1.824	0.2665	0.0353	8	-0.18	041.53	0
041	Vanadium (ppm)	0870	1.826	0.0057	1.824	0.2665	0.0353	8	0.01	041.43	0
041	Vanadium (ppm)	0021	1.850	0.1000	1.824	0.2665	0.0353	8	0.10	041.53	0
041	Vanadium (ppm)	0563	2.006	0.0758	1.824	0.2665	0.0353	8	0.68	041.34	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
041	Vanadium (ppm)	2033	2.180	0.0000	1.824	0.2665	0.0353	8	1.34	041.43	0
041	Vanadium (ppm)	2207	2.400	0.4000	1.824	0.2665	0.0353	8	2.16	041.52	1
041	Vanadium (ppm)	0511	10.00	0.0000	1.824	0.2665	0.0353	8	30.68	041.43	2
041	Vanadium (ppm)	0021	< 2		1.824	0.2665	0.0353	8		041.43	5
516	Arsenic, Total (As) (ppm)	2302	3.425	0.0500	28.92	2.788	1.160	26	-9.14	516.99	0
516	Arsenic, Total (As) (ppm)	2146	16.80	1.160	28.92	2.788	1.160	26	-4.35	516.34	0
516	Arsenic, Total (As) (ppm)	0870	25.17	1.451	28.92	2.788	1.160	26	-1.34	516.43	0
516	Arsenic, Total (As) (ppm)	0186	25.90	0.8000	28.92	2.788	1.160	26	-1.08	516.52	0
516	Arsenic, Total (As) (ppm)	0033	27.15	1.700	28.92	2.788	1.160	26	-0.63	516.53	0
516	Arsenic, Total (As) (ppm)	0629	27.40	0.8000	28.92	2.788	1.160	26	-0.54	516.43	0
516	Arsenic, Total (As) (ppm)	0407	27.66	0.0663	28.92	2.788	1.160	26	-0.45	516.53	0
516	Arsenic, Total (As) (ppm)	0511	28.00	0.0000	28.92	2.788	1.160	26	-0.33	516.43	0
516	Arsenic, Total (As) (ppm)	0910	28.44	0.3800	28.92	2.788	1.160	26	-0.17	516.52	0
516	Arsenic, Total (As) (ppm)	0425	28.81	3.054	28.92	2.788	1.160	26	-0.04	516.34	0
516	Arsenic, Total (As) (ppm)	0964	28.90	3.000	28.92	2.788	1.160	26	-0.01	516.43	0
516	Arsenic, Total (As) (ppm)	0098	28.92	3.000	28.92	2.788	1.160	26	0.00	516.53	0
516	Arsenic, Total (As) (ppm)	0021	29.00	0.0000	28.92	2.788	1.160	26	0.03	516.53	0
516	Arsenic, Total (As) (ppm)	2207	29.15	0.7000	28.92	2.788	1.160	26	0.08	516.52	0
516	Arsenic, Total (As) (ppm)	2114	29.17	0.1701	28.92	2.788	1.160	26	0.09	516.43	0
516	Arsenic, Total (As) (ppm)	0723	29.34	0.2300	28.92	2.788	1.160	26	0.15	516.43	0
516	Arsenic, Total (As) (ppm)	0042	29.45	2.300	28.92	2.788	1.160	26	0.19	516.42	0
516	Arsenic, Total (As) (ppm)	0010	29.80	1.000	28.92	2.788	1.160	26	0.32	516.53	0
516	Arsenic, Total (As) (ppm)	2113	30.00	2.000	28.92	2.788	1.160	26	0.39	516.52	0
516	Arsenic, Total (As) (ppm)	0563	30.42	0.7905	28.92	2.788	1.160	26	0.54	516.00	0
516	Arsenic, Total (As) (ppm)	0021	30.50	1.000	28.92	2.788	1.160	26	0.57	516.43	0
516	Arsenic, Total (As) (ppm)	2141	30.59	2.510	28.92	2.788	1.160	26	0.60	516.43	0
516	Arsenic, Total (As) (ppm)	0918	30.83	2.410	28.92	2.788	1.160	26	0.69	516.53	0
516	Arsenic, Total (As) (ppm)	0208	31.20	1.400	28.92	2.788	1.160	26	0.82	516.52	0
516	Arsenic, Total (As) (ppm)	0227	31.65	0.1750	28.92	2.788	1.160	26	0.98	516.53	0
516	Arsenic, Total (As) (ppm)	2033	33.96	0.0000	28.92	2.788	1.160	26	1.81	516.53	0
516	Arsenic, Total (As) (ppm)	0553	30.45	6.300	28.92	2.788	1.160	26	0.55	516.53	1
518	Cadmium (ppm)	2302	0.1800	0.0000	0.4196	0.0765	0.0260	24	-3.13	518.99	0
518	Cadmium (ppm)	0407	0.2535	0.0216	0.4196	0.0765	0.0260	24	-2.17	518.41	0
518	Cadmium (ppm)	0563	0.2750	0.0300	0.4196	0.0765	0.0260	24	-1.89	518.34	0
518	Cadmium (ppm)	0629	0.3350	0.0100	0.4196	0.0765	0.0260	24	-1.11	518.43	0
518	Cadmium (ppm)	0964	0.3595	0.0370	0.4196	0.0765	0.0260	24	-0.79	518.43	0
518	Cadmium (ppm)	2114	0.3841	0.0130	0.4196	0.0765	0.0260	24	-0.46	518.99	0
518	Cadmium (ppm)	2146	0.3900	0.0200	0.4196	0.0765	0.0260	24	-0.39	518.34	0
518	Cadmium (ppm)	0021	0.3900	0.0200	0.4196	0.0765	0.0260	24	-0.39	518.53	0
518	Cadmium (ppm)	0186	0.3980	0.0080	0.4196	0.0765	0.0260	24	-0.28	518.52	0
518	Cadmium (ppm)	0010	0.4000	0.0000	0.4196	0.0765	0.0260	24	-0.26	518.53	0
518	Cadmium (ppm)	0033	0.4015	0.0350	0.4196	0.0765	0.0260	24	-0.24	518.53	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			
518	Cadmium (ppm)	0407	0.4058	0.0196	0.4196	0.0765	0.0260	24	-0.18	518.53	0
518	Cadmium (ppm)	0208	0.4230	0.0220	0.4196	0.0765	0.0260	24	0.05	518.52	0
518	Cadmium (ppm)	2207	0.4250	0.0300	0.4196	0.0765	0.0260	24	0.07	518.52	0
518	Cadmium (ppm)	2033	0.4300	0.0000	0.4196	0.0765	0.0260	24	0.14	518.53	0
518	Cadmium (ppm)	0910	0.4400	0.0000	0.4196	0.0765	0.0260	24	0.27	518.52	0
518	Cadmium (ppm)	0227	0.4430	0.0240	0.4196	0.0765	0.0260	24	0.31	518.53	0
518	Cadmium (ppm)	0098	0.4580	0.0300	0.4196	0.0765	0.0260	24	0.50	518.53	0
518	Cadmium (ppm)	0553	0.4810	0.0240	0.4196	0.0765	0.0260	24	0.80	518.53	0
518	Cadmium (ppm)	0425	0.4881	0.1302	0.4196	0.0765	0.0260	24	0.90	518.34	0
518	Cadmium (ppm)	2113	0.5000	0.0400	0.4196	0.0765	0.0260	24	1.05	518.52	0
518	Cadmium (ppm)	0870	0.7583	0.0447	0.4196	0.0765	0.0260	24	4.43	518.43	0
518	Cadmium (ppm)	0723	0.7800	0.0600	0.4196	0.0765	0.0260	24	4.71	518.43	0
518	Cadmium (ppm)	0918	0.9510	0.0060	0.4196	0.0765	0.0260	24	6.95	518.53	0
518	Cadmium (ppm)	0042	1.125	0.1500	0.4196	0.0765	0.0260	24	9.22	518.42	1
518	Cadmium (ppm)	0021	< 2		0.4196	0.0765	0.0260	24		518.43	5
518	Cadmium (ppm)	2141	< 5		0.4196	0.0765	0.0260	24		518.43	5
520	Chromium, Total (Cr) (ppm)	0910	4.240	0.0000	5.765	0.7085	0.2025	22	-2.15	520.52	0
520	Chromium, Total (Cr) (ppm)	0407	4.272	0.1352	5.765	0.7085	0.2025	22	-2.11	520.41	0
520	Chromium, Total (Cr) (ppm)	0042	4.565	0.1900	5.765	0.7085	0.2025	22	-1.69	520.42	0
520	Chromium, Total (Cr) (ppm)	2113	4.950	0.1000	5.765	0.7085	0.2025	22	-1.15	520.52	0
520	Chromium, Total (Cr) (ppm)	2207	5.000	0.0000	5.765	0.7085	0.2025	22	-1.08	520.52	0
520	Chromium, Total (Cr) (ppm)	0098	5.320	0.0800	5.765	0.7085	0.2025	22	-0.63	520.53	0
520	Chromium, Total (Cr) (ppm)	0918	5.430	0.2600	5.765	0.7085	0.2025	22	-0.47	520.53	0
520	Chromium, Total (Cr) (ppm)	0227	5.635	0.2700	5.765	0.7085	0.2025	22	-0.18	520.31	0
520	Chromium, Total (Cr) (ppm)	0723	5.710	0.0600	5.765	0.7085	0.2025	22	-0.08	520.43	0
520	Chromium, Total (Cr) (ppm)	0033	5.770	0.2600	5.765	0.7085	0.2025	22	0.01	520.53	0
520	Chromium, Total (Cr) (ppm)	0629	5.985	0.0100	5.765	0.7085	0.2025	22	0.31	520.43	0
520	Chromium, Total (Cr) (ppm)	0511	6.000	0.0000	5.765	0.7085	0.2025	22	0.33	520.43	0
520	Chromium, Total (Cr) (ppm)	2141	6.040	0.2600	5.765	0.7085	0.2025	22	0.39	520.43	0
520	Chromium, Total (Cr) (ppm)	0553	6.105	0.6900	5.765	0.7085	0.2025	22	0.48	520.53	0
520	Chromium, Total (Cr) (ppm)	2033	6.120	0.0000	5.765	0.7085	0.2025	22	0.50	520.43	0
520	Chromium, Total (Cr) (ppm)	0964	6.180	0.4600	5.765	0.7085	0.2025	22	0.59	520.43	0
520	Chromium, Total (Cr) (ppm)	0010	6.200	0.4000	5.765	0.7085	0.2025	22	0.61	520.53	0
520	Chromium, Total (Cr) (ppm)	0510	6.235	0.0500	5.765	0.7085	0.2025	22	0.66	520.43	0
520	Chromium, Total (Cr) (ppm)	0186	6.361	0.7140	5.765	0.7085	0.2025	22	0.84	520.52	0
520	Chromium, Total (Cr) (ppm)	0021	6.450	0.1000	5.765	0.7085	0.2025	22	0.97	520.53	0
520	Chromium, Total (Cr) (ppm)	0407	6.487	0.2667	5.765	0.7085	0.2025	22	1.02	520.53	0
520	Chromium, Total (Cr) (ppm)	0870	6.827	0.1486	5.765	0.7085	0.2025	22	1.50	520.43	0
520	Chromium, Total (Cr) (ppm)	0208	7.080	1.020	5.765	0.7085	0.2025	22	1.86	520.41	1
520	Chromium, Total (Cr) (ppm)	2302	< 0.01		5.765	0.7085	0.2025	22		520.99	5
520	Chromium, Total (Cr) (ppm)	0021	< 22		5.765	0.7085	0.2025	22		520.43	5
526	Lead (ppm)	2302	1.000	0.0000	4.532	0.5775	0.1415	26	-6.12	526.99	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
526	Lead (ppm)	0723	3.350	0.0800	4.532	0.5775	0.1415	26	-2.05	526.43	0
526	Lead (ppm)	0407	3.438	0.0065	4.532	0.5775	0.1415	26	-1.90	526.41	0
526	Lead (ppm)	2146	3.485	0.0900	4.532	0.5775	0.1415	26	-1.81	526.34	0
526	Lead (ppm)	0629	3.790	0.0400	4.532	0.5775	0.1415	26	-1.29	526.43	0
526	Lead (ppm)	0563	3.985	0.2900	4.532	0.5775	0.1415	26	-0.95	526.34	0
526	Lead (ppm)	2114	4.259	0.1644	4.532	0.5775	0.1415	26	-0.47	526.99	0
526	Lead (ppm)	0870	4.346	0.2496	4.532	0.5775	0.1415	26	-0.32	526.43	0
526	Lead (ppm)	2113	4.350	0.1000	4.532	0.5775	0.1415	26	-0.32	526.52	0
526	Lead (ppm)	0021	4.400	0.0000	4.532	0.5775	0.1415	26	-0.23	526.53	0
526	Lead (ppm)	0033	4.530	0.0600	4.532	0.5775	0.1415	26	0.00	526.53	0
526	Lead (ppm)	0186	4.624	0.0400	4.532	0.5775	0.1415	26	0.16	526.52	0
526	Lead (ppm)	0407	4.640	0.5468	4.532	0.5775	0.1415	26	0.19	526.53	0
526	Lead (ppm)	2207	4.650	0.1000	4.532	0.5775	0.1415	26	0.20	526.52	0
526	Lead (ppm)	0425	4.665	0.1689	4.532	0.5775	0.1415	26	0.23	526.34	0
526	Lead (ppm)	0910	4.690	0.0400	4.532	0.5775	0.1415	26	0.27	526.52	0
526	Lead (ppm)	0010	4.800	0.2000	4.532	0.5775	0.1415	26	0.46	526.53	0
526	Lead (ppm)	0227	4.847	0.0280	4.532	0.5775	0.1415	26	0.54	526.53	0
526	Lead (ppm)	0964	4.865	0.3300	4.532	0.5775	0.1415	26	0.58	526.43	0
526	Lead (ppm)	0553	4.990	0.2600	4.532	0.5775	0.1415	26	0.79	526.53	0
526	Lead (ppm)	0098	5.028	0.1050	4.532	0.5775	0.1415	26	0.86	526.53	0
526	Lead (ppm)	0208	5.030	0.0000	4.532	0.5775	0.1415	26	0.86	526.52	0
526	Lead (ppm)	0042	5.055	0.2700	4.532	0.5775	0.1415	26	0.90	526.42	0
526	Lead (ppm)	0918	5.125	0.0300	4.532	0.5775	0.1415	26	1.03	526.53	0
526	Lead (ppm)	2033	5.550	0.0000	4.532	0.5775	0.1415	26	1.76	526.53	0
526	Lead (ppm)	2141	6.110	0.4800	4.532	0.5775	0.1415	26	2.73	526.43	0
526	Lead (ppm)	0511	4.500	1.000	4.532	0.5775	0.1415	26	-0.06	526.43	1
526	Lead (ppm)	0021	< 6		4.532	0.5775	0.1415	26		526.43	5
529	Mercury (ppb)	0186	0.0465	0.0030	63.45	13.96	3.561	16	-4.54	529.99	0
529	Mercury (ppb)	0425	0.2609	0.0681	63.45	13.96	3.561	16	-4.53	529.00	0
529	Mercury (ppb)	0227	54.02	1.970	63.45	13.96	3.561	16	-0.68	529.99	0
529	Mercury (ppb)	0553	56.05	6.300	63.45	13.96	3.561	16	-0.53	529.99	0
529	Mercury (ppb)	0407	56.54	0.6103	63.45	13.96	3.561	16	-0.50	529.99	0
529	Mercury (ppb)	0042	57.70	4.000	63.45	13.96	3.561	16	-0.41	529.00	0
529	Mercury (ppb)	0918	58.00	0.0000	63.45	13.96	3.561	16	-0.39	529.99	0
529	Mercury (ppb)	2114	58.89	0.6101	63.45	13.96	3.561	16	-0.33	529.99	0
529	Mercury (ppb)	0208	59.60	5.800	63.45	13.96	3.561	16	-0.28	529.99	0
529	Mercury (ppb)	2033	61.00	0.0000	63.45	13.96	3.561	16	-0.18	529.99	0
529	Mercury (ppb)	0033	62.45	3.300	63.45	13.96	3.561	16	-0.07	529.99	0
529	Mercury (ppb)	0010	66.00	0.0000	63.45	13.96	3.561	16	0.18	529.99	0
529	Mercury (ppb)	0098	66.50	5.000	63.45	13.96	3.561	16	0.22	529.99	0
529	Mercury (ppb)	0629	185.0	10.00	63.45	13.96	3.561	16	8.71	529.99	0
529	Mercury (ppb)	0563	209.6	10.80	63.45	13.96	3.561	16	10.47	529.99	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			
529	Mercury (ppb)	2146	443.3	8.520	63.45	13.96	3.561	16	27.21	529.99	0
529	Mercury (ppb)	2302	< 0.01		63.45	13.96	3.561	16		529.99	5
529	Mercury (ppb)	0910	< 10		63.45	13.96	3.561	16		529.99	5
529	Mercury (ppb)	2207	< 10		63.45	13.96	3.561	16		529.99	5
539	Nickel (ppm)	2292	200.5	1.000	232.0	16.35	9.305	21	-1.92	539.99	0
539	Nickel (ppm)	0511	208.0	4.000	232.0	16.35	9.305	21	-1.47	539.43	0
539	Nickel (ppm)	0042	217.0	2.000	232.0	16.35	9.305	21	-0.92	539.42	0
539	Nickel (ppm)	0208	219.5	3.000	232.0	16.35	9.305	21	-0.76	539.41	0
539	Nickel (ppm)	0186	219.8	12.10	232.0	16.35	9.305	21	-0.75	539.52	0
539	Nickel (ppm)	0629	226.5	3.000	232.0	16.35	9.305	21	-0.33	539.43	0
539	Nickel (ppm)	0407	227.3	0.1576	232.0	16.35	9.305	21	-0.28	539.41	0
539	Nickel (ppm)	0910	228.2	4.940	232.0	16.35	9.305	21	-0.23	539.52	0
539	Nickel (ppm)	0870	228.5	14.65	232.0	16.35	9.305	21	-0.21	539.43	0
539	Nickel (ppm)	0964	230.5	29.00	232.0	16.35	9.305	21	-0.09	539.43	0
539	Nickel (ppm)	0098	233.0	2.000	232.0	16.35	9.305	21	0.06	539.53	0
539	Nickel (ppm)	2113	235.0	10.00	232.0	16.35	9.305	21	0.19	539.52	0
539	Nickel (ppm)	0021	235.0	10.00	232.0	16.35	9.305	21	0.19	539.53	0
539	Nickel (ppm)	0407	235.1	35.41	232.0	16.35	9.305	21	0.19	539.53	0
539	Nickel (ppm)	2141	238.5	11.00	232.0	16.35	9.305	21	0.40	539.43	0
539	Nickel (ppm)	2207	242.0	3.700	232.0	16.35	9.305	21	0.61	539.52	0
539	Nickel (ppm)	0010	243.0	8.000	232.0	16.35	9.305	21	0.68	539.53	0
539	Nickel (ppm)	2033	243.2	0.0000	232.0	16.35	9.305	21	0.68	539.43	0
539	Nickel (ppm)	0021	245.0	10.00	232.0	16.35	9.305	21	0.80	539.43	0
539	Nickel (ppm)	0553	247.5	21.00	232.0	16.35	9.305	21	0.95	539.53	0
539	Nickel (ppm)	0918	276.1	10.44	232.0	16.35	9.305	21	2.70	539.53	0
542	Arsenic, Inorganic (iAs) (ppm)	2146	16.20	0.6400				1		542.99	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.