

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 160611

WS 25-5-15

Statistical Summary

Methods: 145

Labs Reporting: 76

Issue Date : 07/31/2016

Method Code	Analyte & Method	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	IA %RSD	Average Range (R-bar)	Horwitz %RSD
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	8	8	10.33	0.7373	10.38		0.7386	0.2611	7.12%		0.1663	2.81%
001.99	Ammoniacal Nitrogen, Other (%)	15	14	11.54	1.693	11.14		0.8901	0.2379	7.99%		0.0886	2.78%
002.20	Nitrate Nitrogen, Jones Modified (%)	1		15.65									
002.99	Nitrate Nitrogen, Other (%)	15	15	14.27	0.6141	14.30		0.4700	0.1214	3.29%		0.1437	2.68%
003.99	Water Insoluble Nitrogen, Other (%)	1		10.95									
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	7	7	22.22	5.066	23.85		1.072	0.4052	4.49%		0.0529	2.48%
009.99	Ammoniacal Plus Nitrate Nitrogen, Other (%)	2	2	24.31	1.054								
010.11	Total Nitrogen, Modified Comprehensive (25%)	4	4	24.42	1.018	24.42	0.7834	1.018	0.5091	4.17%	1.60%	0.5650	2.47%
010.12	Total Nitrogen, Salicylic (25%)	5	5	24.70	0.5362	24.70	0.7834	0.5362	0.2398	2.17%	1.59%	0.7780	2.47%
010.17	Total Nitrogen, Comprehensive (25%)	1		25.63									
010.60	Total Nitrogen, Combustion (25%)	49	46	23.97	2.055	23.90	0.7834	1.747	0.2576	7.31%	1.64%	0.4736	2.48%
010.99	Total Nitrogen, Other (25%)	6	6	26.93	3.580	26.42	0.7834	2.820	1.151	10.67%	1.48%	0.1233	2.44%
020.10	Total Phosphorus as P2O5, Gravimetric Quinolinium ... (%)	7	7	4.927	0.5381	4.927		0.6101	0.2306	12.38%		0.2086	3.15%
020.20	Total Phosphorus as P2O5, Spectrophotometric Molyb... (%)	16	16	4.742	1.053	4.917		0.6146	0.1537	12.50%		0.3468	3.15%
020.40	Total Phosphorus as P2O5, Automated (%)	4	4	4.229	0.5149	4.229		0.5149	0.2574	12.18%		0.3725	3.22%
020.50	Total Phosphorus as P2O5, ICP (%)	14	13	5.147	0.5629	5.095		0.5051	0.1401	9.91%		0.1984	3.13%
020.99	Total Phosphorus as P2O5, Other (%)	3	3	5.517	0.4954	5.517		0.4954	0.2860	8.98%		0.0333	3.09%
030.40	Citrate Insoluble Phosphorus as P2O5, Automated, t... (%)	1		0.0150									
040.20	Indirect Available Phosphorus as P2O5, Spectrophot... (5%)	1		5.305									
040.40	Indirect Available Phosphorus as P2O5, Automated (5%)	1		3.455									
040.50	Indirect Available Phosphorus as P2O5, ICP (5%)	1		4.940									
041.10	Direct Available Phosphorus as P2O5, Gravimetric Q... (5%)	3	3	5.590	1.191	5.590	0.6700	1.191	0.6875	21.30%	5.99%	0.2154	3.09%
041.11	Direct Available Phosphorus as P2O5, Gravimetric Q... (5%)	4	4	4.924	0.3260	4.924	0.6700	0.3260	0.1630	6.62%	6.80%	0.3325	3.15%
041.20	Direct Available Phosphorus as P2O5, Spectrophotom... (5%)	2	2	5.098	0.1450								
041.21	Direct Available Phosphorus as P2O5, Spectrophotom... (5%)	1		4.965									
041.40	Direct Available Phosphorus as P2O5, Automated (5%)	2	2	5.585	0.2333								
041.50	Direct Available Phosphorus as P2O5, ICP (5%)	6	5	4.877	0.7057	4.877	0.6700	0.7057	0.3156	14.47%	6.87%	0.2260	3.15%
041.51	Direct Available Phosphorus as P2O5, ICP, Citrate-... (5%)	3	3	4.762	0.4235	4.762	0.6700	0.4235	0.2445	8.89%	7.03%	0.1075	3.16%
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA ... (5%)	12	12	4.692	0.6111	4.723	0.6700	0.4747	0.1370	10.05%	7.09%	0.2157	3.17%
041.99	Direct Available Phosphorus as P2O5, Other (5%)	4	4	5.118	0.5830	5.118	0.6700	0.5830	0.2915	11.39%	6.55%	0.2100	3.13%
042.99	Water Soluble Orthophosphate as P2O5, Other (%)	1		5.130									

Method Code	Analyte & Method	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	IA %RSD	Average Range (R-bar)	Horwitz %RSD
048.20	Water Soluble Phosphorus as P2O5, Spectrophotometr... (%)	1		5.257									
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	1		2.720									
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	1		5.805									
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	11	10	14.76	1.687	14.64	0.8728	1.613	0.5100	11.02%	2.98%	0.2020	2.67%
050.30	Soluble Potassium as K2O, AA (Oxalate) (15%)	4	4	12.84	1.924	12.84	0.8728	1.924	0.9622	14.98%	3.40%	0.6625	2.72%
050.31	Soluble Potassium as K2O, AA (Citrate) (15%)	2	2	14.56	1.114								
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	11	10	11.69	5.903	11.88	0.8728	6.267	1.982	52.75%	3.67%	0.6051	2.76%
050.51	Soluble Potassium as K2O, ICP (Citrate) (15%)	6	6	15.06	4.097	14.24	0.8728	2.574	1.051	18.08%	3.06%	0.4033	2.68%
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (15%)	6	5	12.73	2.761	12.73	0.8728	2.761	1.235	21.69%	3.43%	0.1470	2.73%
050.60	Soluble Potassium as K2O, Flame Photometric (Oxala... (15%)	3	3	14.34	1.290	14.34	0.8728	1.290	0.7449	9.00%	3.04%	1.030	2.68%
050.61	Soluble Potassium as K2O, Flame Photometric (Citra... (15%)	4	4	13.95	1.505	13.95	0.8728	1.505	0.7525	10.79%	3.13%	0.4225	2.69%
050.62	Soluble Potassium as K2O, Flame Photometric (Citra... (15%)	4	4	13.77	1.415	13.77	0.8728	1.415	0.7076	10.28%	3.17%	1.174	2.70%
050.99	Soluble Potassium as K2O, Other (15%)	24	23	14.30	2.494	14.56	0.8728	1.581	0.3297	10.86%	3.00%	0.3564	2.67%
060.00	Water (Free), Vacuum Oven (%)	2	2	0.6450	0.6364								
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 hours,... (%)	1		0.6850									
060.99	Water (Free), Other (%)	2	2	0.9650	0.1414								
101.00	Acid Soluble Calcium, AA, inorganic 965.09 (%)	1		0.0115									
101.03	Acid Soluble Calcium, AA, 965.09, test portion 200... (%)	1		0.0130									
101.30	Acid Soluble Calcium, ICP, test portion inorganic ... (%)	6	5	0.0144	0.0026	0.0144		0.0026	0.0012	18.19%		0.0013	7.57%
101.32	Acid Soluble Calcium, ICP, test portion 2006.03A-C (%)	1		0.0096									
101.33	Acid Soluble Calcium, ICP, test portion 2006.03A-C... (%)	2	2	0.0125	0.0011								
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (0.1%)	5	5	0.2678	0.0205	0.2678	0.2135	0.0205	0.0092	7.66%	39.86%	0.0060	4.88%
121.03	Acid Soluble Magnesium, AA, 965.09, test portion 2... (0.1%)	1		0.2565									
121.30	Acid Soluble Magnesium, ICP, test portion inorgani... (0.1%)	20	19	0.2547	0.0641	0.2674	0.2135	0.0324	0.0074	12.12%	39.92%	0.0123	4.88%
121.32	Acid Soluble Magnesium, ICP, test portion 2006.03A... (0.1%)	3	3	0.3721	0.2175	0.3721	0.2135	0.2175	0.1256	58.46%	28.69%	0.0059	4.64%
121.33	Acid Soluble Magnesium, ICP, test portion 2006.03A... (0.1%)	8	7	0.2578	0.0288	0.2622	0.2135	0.0213	0.0081	8.13%	40.71%	0.0078	4.89%
121.99	Acid Soluble Magnesium, Other (0.1%)	6	6	0.2905	0.0260	0.2910	0.2135	0.0284	0.0116	9.76%	36.69%	0.0070	4.82%
131.00	Water Soluble Magnesium, AA (%)	2	2	0.3575	0.1520								
131.30	Water Soluble Magnesium, ICP (%)	6	6	0.2597	0.0371	0.2665		0.0239	0.0098	8.96%		0.0143	4.88%
131.70	Water Soluble Magnesium, Titrimetric (EDTA) (%)	1		0.4550									
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon disu... (%)	1		0.2350									
143.99	Elemental Sulfur, Other (%)	3	3	0.2002	0.0337	0.2002		0.0337	0.0195	16.85%		0.0070	5.10%
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulfur - ... (%)	3	3	0.2292	0.0663	0.2292		0.0663	0.0383	28.92%		0.0482	4.99%
145.99	Sulfate Sulfur, HCl soluble, Other (%)	2	2	0.2500	0.0283								
148.00	Total Sulfur, Combustion (0.13%)	1		0.1800									
148.01	Total Sulfur, Gravimetric - sulfate and elemental... (0.13%)	5	5	0.3556	0.3643	0.3556	0.2103	0.3643	0.1629	102.45%	29.57%	0.0585	4.67%
148.04	Total Sulfur, ICP, w/Br digestion (0.13%)	1		0.2015									
148.07	Total Sulfur, ICP, test portion as in 2006.03 modi... (0.13%)	9	8	0.1899	0.0392	0.1908	0.2103	0.0425	0.0150	22.28%	55.12%	0.0142	5.13%
148.99	Total Sulfur, Other (0.13%)	9	8	0.3187	0.3155	0.2296	0.2103	0.0949	0.0336	41.34%	45.79%	0.0150	4.99%
149.04	Sulfur - HNO3 soluble, ICP (%)	3	3	0.2251	0.0293	0.2251		0.0293	0.0169	13.00%		0.0088	5.01%
151.30	Acid Soluble Arsenic , ICP (ppm)	3	2	0.0484	0.0543	0.0484		0.0543	0.0384	112.22%		0.0058	25.23%
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified w/9.3... (ppm)	1		0.1046									

Method Code	Analyte & Method	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	IA %RSD	Average Range (R-bar)	Horwitz %RSD
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	1		0.0311									
151.99	Acid Soluble Arsenic , Other (ppm)	1		0.0100									
165.00	Acid Soluble Boron , Spectrophotometric (0.025%)	4	4	0.0235	0.0034	0.0235	0.0064	0.0034	0.0017	14.43%	13.59%	0.0005	7.03%
165.30	Acid Soluble Boron , ICP, test portion in 982.01 ... (0.025%)	11	11	0.0196	0.0057	0.0205	0.0064	0.0041	0.0012	19.80%	15.58%	0.0008	7.18%
165.99	Acid Soluble Boron , Other (0.025%)	20	19	0.0233	0.0078	0.0234	0.0064	0.0031	0.0007	13.18%	13.63%	0.0013	7.04%
171.99	Water Soluble Boron , Other (%)	3	3	0.0287	0.0019	0.0287		0.0019	0.0011	6.60%		0.0013	6.83%
181.30	Acid Soluble Cadmium , ICP (ppm)	4	4	0.0354	0.0337	0.0354		0.0337	0.0169	95.17%		0.0062	26.45%
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified w/9:3... (ppm)	1		1.624									
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	1		0.0000									
181.99	Acid Soluble Cadmium , Other (ppm)	1		0.0900									
191.30	Acid Soluble Chromium , ICP (ppm)	5	5	1.057	0.8186	1.057		0.8186	0.3661	77.45%		0.0554	15.86%
191.33	Acid Soluble Chromium , ICP, 2006.03 modified w/9:... (ppm)	2	2	0.7748	0.3990								
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	1		0.7199									
191.99	Acid Soluble Chromium , Other (ppm)	1		2.350									
202.30	Acid Soluble Cobalt , ICP (ppm)	8	8	15.70	8.658	14.03		5.340	1.888	38.05%		0.2530	10.75%
202.32	Acid Soluble Cobalt , ICP, 2006.03 (ppm)	1		15.50									
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w/9:3 ... (ppm)	4	4	15.97	1.861	15.97		1.861	0.9305	11.65%		2.773	10.54%
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	2	2	14.94	0.5077								
202.99	Acid Soluble Cobalt , Other (ppm)	1		16.40									
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.0125%)	6	5	0.0130	0.0014	0.0130	0.0062	0.0014	0.0006	10.99%	23.85%	0.0004	7.69%
221.03	Acid Soluble Copper , AA, 965.09, test portion 200... (0.0125%)	3	3	0.0106	0.0017	0.0106	0.0062	0.0017	0.0010	16.01%	29.32%	0.0013	7.93%
221.30	Acid Soluble Copper , ICP, test portion inorganic ... (0.0125%)	23	22	0.0113	0.0039	0.0114	0.0062	0.0024	0.0005	20.88%	27.18%	0.0008	7.84%
221.32	Acid Soluble Copper , ICP, test portion 2006.03A-C... (0.0125%)	3	3	0.0134	0.0011	0.0134	0.0062	0.0011	0.0006	8.16%	23.18%	0.0003	7.66%
221.33	Acid Soluble Copper , ICP, test portion 2006.03A-C... (0.0125%)	5	5	0.0361	0.0544	0.0361	0.0062	0.0544	0.0243	150.83%	8.59%	0.0037	6.59%
221.99	Acid Soluble Copper , Other (0.0125%)	7	7	0.0127	0.0020	0.0127	0.0062	0.0023	0.0009	18.00%	24.46%	0.0007	7.72%
241.00	Acid Soluble Iron, AA, inorganic 965.09 (0.125%)	5	5	0.1184	0.0123	0.1184	0.0162	0.0122	0.0055	10.34%	6.83%	0.0142	5.51%
241.03	Acid Soluble Iron, AA, 965.09, test portion 2006.0... (0.125%)	1		0.1100									
241.30	Acid Soluble Iron, ICP, test portion inorganic 965... (0.125%)	23	22	0.1034	0.0429	0.1076	0.0162	0.0307	0.0066	28.57%	7.52%	0.0049	5.59%
241.32	Acid Soluble Iron, ICP, test portion 2006.03A-C ... (0.125%)	3	3	0.1098	0.0137	0.1098	0.0162	0.0137	0.0079	12.48%	7.37%	0.0045	5.58%
241.33	Acid Soluble Iron, ICP, test portion 2006.03A-C, w... (0.125%)	7	6	0.1050	0.0189	0.1041	0.0162	0.0194	0.0079	18.60%	7.77%	0.0046	5.62%
241.99	Acid Soluble Iron, Other (0.125%)	7	7	0.1228	0.0264	0.1239	0.0162	0.0274	0.0104	22.13%	6.53%	0.0064	5.48%
251.30	Acid Soluble Lead , ICP (ppm)	4	3	0.2340	0.0538	0.2340		0.0538	0.0311	23.00%		0.0282	19.90%
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9:3 HN... (ppm)	1		0.7787									
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	1		0.0000									
251.99	Acid Soluble Lead , Other (ppm)	1		0.0100									
261.11	Acid Soluble Manganese , AA, total Mn (0.063%)	1		0.0735									
261.12	Acid Soluble Manganese , AA, inorganic 965.09 (0.063%)	3	3	0.0594	0.0064	0.0594	0.0103	0.0064	0.0037	10.73%	8.67%	0.0066	6.12%
261.15	Acid Soluble Manganese , AA, 965.09, test portion ... (0.063%)	1		0.0535									
261.30	Acid Soluble Manganese , ICP, test portion 972.02a... (0.063%)	11	10	0.0421	0.0163	0.0426	0.0103	0.0173	0.0055	40.69%	12.08%	0.0021	6.43%
261.31	Acid Soluble Manganese , ICP, test portion 972.02b... (0.063%)	5	5	0.0408	0.0228	0.0408	0.0103	0.0228	0.0102	55.98%	12.61%	0.0015	6.47%
261.32	Acid Soluble Manganese , ICP, test portion inorgan... (0.063%)	6	6	0.0546	0.0080	0.0546	0.0103	0.0091	0.0037	16.68%	9.42%	0.0039	6.20%
261.33	Acid Soluble Manganese , ICP, test portion organic... (0.063%)	1		0.0631									

Method Code	Analyte & Method	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	IA %RSD	Average Range (R-bar)	Horwitz %RSD
261.34	Acid Soluble Manganese , ICP, test portion 2006.03... (0.063%)	4	4	0.0470	0.0241	0.0470	0.0103	0.0241	0.0120	51.25%	10.94%	0.0010	6.34%
261.35	Acid Soluble Manganese , ICP, test portion 2006.03... (0.063%)	6	6	0.0511	0.0067	0.0509	0.0103	0.0049	0.0020	9.66%	10.10%	0.0094	6.26%
261.99	Acid Soluble Manganese , Other (0.063%)	9	9	0.0556	0.0118	0.0569	0.0103	0.0101	0.0034	17.71%	9.04%	0.0023	6.16%
271.30	Water Soluble Manganese , ICP, Ext. 972.03 (%)	2	2	0.0553	0.0088								
271.99	Water Soluble Manganese , Other (%)	1		0.0685									
281.30	Acid Soluble Mercury , ICP (ppm)	3	2	0.0063	0.0053	0.0063		0.0053	0.0037	83.95%		0.0001	34.32%
289.00	Acid Soluble Molybdenum , AA, test portion in 2006... (125ppm)	1		110.0									
289.30	Acid Soluble Molybdenum , ICP (125ppm)	16	15	107.1	34.24	106.8	33.3530	28.10	7.255	26.31%	15.61%	3.659	7.92%
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (125ppm)	1		0.0119									
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modified w/... (125ppm)	6	5	112.2	5.921	112.2	33.3530	5.921	2.648	5.28%	14.86%	5.997	7.86%
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010C (125ppm)	1		106.3									
289.99	Acid Soluble Molybdenum , Other (125ppm)	2	2	150.4	52.89								
291.30	Acid Soluble Nickel , ICP (ppm)	4	3	0.2909	0.1473	0.2909		0.1473	0.0850	50.63%		0.0421	19.26%
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w/9:3 ... (ppm)	2	2	0.3462	0.0050								
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	1		0.1802									
291.99	Acid Soluble Nickel , Other (ppm)	1		0.5500									
301.30	Acid Soluble Selenium , ICP (ppm)	2	2	0.2049	0.2194								
301.33	Acid Soluble Selenium , ICP, 2006.03 modified w/9:... (ppm)	1		0.5294									
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	1		0.7694									
311.32	Sodium, ICP, 2006.03 test portion (%)	1		0.1784									
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl test ... (%)	4	4	0.1935	0.0335	0.1935		0.0335	0.0167	17.31%		0.0050	5.12%
311.99	Sodium, Other (%)	3	3	0.1469	0.0682	0.1469		0.0682	0.0394	46.42%		0.0011	5.34%
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.063%)	7	7	0.0572	0.0092	0.0574	0.0107	0.0100	0.0038	17.47%	9.35%	0.0050	6.15%
321.03	Acid Soluble Zinc , AA, 965.09, test portion 2006.... (0.063%)	1		0.0530									
321.30	Acid Soluble Zinc , ICP, test portion inorganic 96... (0.063%)	23	21	0.0515	0.0193	0.0526	0.0107	0.0119	0.0026	22.67%	10.21%	0.0016	6.23%
321.32	Acid Soluble Zinc , ICP, test portion 2006.03A-C ... (0.063%)	3	3	0.0651	0.0063	0.0651	0.0107	0.0063	0.0036	9.62%	8.25%	0.0013	6.03%
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, ... (0.063%)	7	6	0.0639	0.0125	0.0639	0.0107	0.0142	0.0058	22.28%	8.41%	0.0053	6.05%
321.99	Acid Soluble Zinc , Other (0.063%)	7	7	0.0604	0.0154	0.0623	0.0107	0.0129	0.0049	20.75%	8.62%	0.0026	6.07%
325.00	Water Soluble Zinc , AA (%)	1		0.0685									
325.30	Water Soluble Zinc , ICP (%)	4	4	0.0774	0.0231	0.0774		0.0231	0.0116	29.90%		0.0143	5.88%

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 160611

Method Precision Report

WS 25-5-15

Issue Date : 07/31/2016

Method Code	Analyte & Method	# Tests Submitted	# Tests Used in Precision Calcs	Mean	SD	Between Labs sL	Within Labs sr	Reproducibility SR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	8	8	10.33	0.7373	0.7311	0.1345	0.7434	7.07%	1.30%	7.19%	5.526
001.99	Ammoniacal Nitrogen, Other (%)	15	12	11.18	1.218	1.217	0.0448	1.218	10.89%	0.40%	10.90%	27.20
002.99	Nitrate Nitrogen, Other (%)	15	14	14.24	0.6279	0.6229	0.1115	0.6328	4.37%	0.78%	4.44%	5.673
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	7	6	24.12	0.6849	0.6843	0.0413	0.6855	2.84%	0.17%	2.84%	16.59
010.60	Total Nitrogen, Combustion (25%)	49	43	23.81	1.805	1.784	0.3915	1.826	7.49%	1.64%	7.67%	4.664
010.99	Total Nitrogen, Other (25%)	6	5	25.58	1.537	1.536	0.0647	1.538	6.01%	0.25%	6.01%	23.75
020.10	Total Phosphorus as P2O5, Gravimetric Quinolinium MolybdoP (%)	7	6	4.997	0.5539	0.5460	0.1321	0.5617	10.93%	2.64%	11.24%	4.252
020.20	Total Phosphorus as P2O5, Spectrophotometric MolybdovanadoP (%)	16	13	4.985	0.5543	0.5430	0.1578	0.5654	10.89%	3.17%	11.34%	3.583
020.50	Total Phosphorus as P2O5, ICP (%)	14	12	5.032	0.3999	0.3829	0.1629	0.4162	7.61%	3.24%	8.27%	2.554
041.50	Direct Available Phosphorus as P2O5, ICP (5%)	6	5	4.877	0.7057	0.6912	0.2014	0.7199	14.17%	4.13%	14.76%	3.574
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA Ext. (5%)	12	11	4.820	0.4412	0.4090	0.2340	0.4712	8.49%	4.85%	9.78%	2.014
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	11	9	14.78	1.788	1.785	0.1456	1.791	12.08%	0.98%	12.12%	12.30
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	11	9	10.91	5.680	5.677	0.2794	5.683	52.05%	2.56%	52.11%	20.34
050.51	Soluble Potassium as K2O, ICP (Citrate) (15%)	6	4	13.25	1.517	1.510	0.1965	1.523	11.40%	1.48%	11.50%	7.750
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (15%)	6	5	12.73	2.761	2.759	0.1431	2.762	21.67%	1.12%	21.70%	19.31
050.99	Soluble Potassium as K2O, Other (15%)	24	21	14.64	1.701	1.687	0.3091	1.715	11.53%	2.11%	11.72%	5.548
101.30	Acid Soluble Calcium, ICP, test portion inorganic 965.09 (%)	6	4	0.0132	0.0004		0.0010			7.46%		
121.30	Acid Soluble Magnesium, ICP, test portion inorganic 965.09 (0.1%)	20	18	0.2651	0.0466	0.0457	0.0126	0.0474	17.24%	4.75%	17.88%	3.766
121.33	Acid Soluble Magnesium, ICP, test portion 2006.03A-C, w/dual acid (0.1%)	8	6	0.2676	0.0136	0.0126	0.0072	0.0146	4.72%	2.70%	5.44%	2.013
121.99	Acid Soluble Magnesium, Other (0.1%)	6	5	0.2839	0.0228	0.0226	0.0038	0.0229	7.96%	1.33%	8.07%	6.090
131.30	Water Soluble Magnesium, ICP (%)	6	5	0.2736	0.0163	0.0144	0.0109	0.0181	5.27%	3.98%	6.61%	1.658
148.07	Total Sulfur, ICP, test portion as in 2006.03 modified w/9:3 HNO3:HCl (0.13%)	9	8	0.1899	0.0392	0.0380	0.0137	0.0404	20.02%	7.21%	21.28%	2.949
148.99	Total Sulfur, Other (0.13%)	9	7	0.2093	0.0657	0.0651	0.0127	0.0663	31.09%	6.06%	31.67%	5.231
165.30	Acid Soluble Boron , ICP, test portion in 982.01 (0.025%)	11	10	0.0211	0.0031	0.0031	0.0008	0.0032	14.54%	3.57%	14.97%	4.199
165.99	Acid Soluble Boron , Other (0.025%)	20	18	0.0220	0.0057	0.0056	0.0012	0.0057	25.49%	5.63%	26.10%	4.637
202.30	Acid Soluble Cobalt , ICP (ppm)	8	6	12.97	4.041	4.039	0.1702	4.042	31.14%	1.31%	31.16%	23.75
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.0125%)	6	5	0.0130	0.0014	0.0014	0.0004	0.0015	10.81%	2.81%	11.17%	3.978
221.30	Acid Soluble Copper , ICP, test portion inorganic 965.09 (0.0125%)	23	20	0.0108	0.0032	0.0031	0.0007	0.0032	29.01%	6.60%	29.75%	4.509
221.99	Acid Soluble Copper , Other (0.0125%)	7	7	0.0127	0.0020	0.0020	0.0007	0.0021	15.44%	5.23%	16.30%	3.114
241.30	Acid Soluble Iron, ICP, test portion inorganic 965.09 (0.125%)	23	21	0.1024	0.0436	0.0435	0.0039	0.0437	42.51%	3.84%	42.69%	11.11

Method Code	Analyte & Method	# Tests Submitted	# Tests Used in Precision Calcs	Mean	SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
241.33	Acid Soluble Iron, ICP, test portion 2006.03A-C, w/dual acid (0.125%)	7	5	0.1044	0.0211	0.0211	0.0016	0.0211	20.18%	1.51%	20.23%	13.42
241.99	Acid Soluble Iron, Other (0.125%)	7	7	0.1228	0.0264	0.0262	0.0055	0.0267	21.31%	4.48%	21.77%	4.860
261.30	Acid Soluble Manganese , ICP, test portion 972.02a (0.063%)	11	9	0.0406	0.0166	0.0166	0.0013	0.0166	40.80%	3.24%	40.93%	12.64
261.32	Acid Soluble Manganese , ICP, test portion inorganic 965.09 (0.063%)	6	6	0.0546	0.0080	0.0076	0.0035	0.0084	14.00%	6.38%	15.38%	2.412
261.35	Acid Soluble Manganese , ICP, test portion 2006.03A-C, w/dual acid (0.063%)	6	5	0.0514	0.0074	0.0064	0.0055	0.0084	12.36%	10.65%	16.32%	1.531
261.99	Acid Soluble Manganese , Other (0.063%)	9	8	0.0588	0.0074	0.0072	0.0022	0.0075	12.26%	3.68%	12.80%	3.477
289.30	Acid Soluble Molybdenum , ICP (125ppm)	16	15	107.1	34.24	34.14	3.591	34.33	31.87%	3.35%	32.04%	9.561
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modified w/9:3 HNO3:HCl (125ppm)	6	5	112.2	5.921	4.352	5.678	7.154	3.88%	5.06%	6.37%	1.260
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.063%)	7	6	0.0579	0.0099	0.0097	0.0027	0.0101	16.73%	4.68%	17.37%	3.711
321.30	Acid Soluble Zinc , ICP, test portion inorganic 965.09 (0.063%)	23	19	0.0516	0.0118	0.0117	0.0018	0.0119	22.72%	3.54%	23.00%	6.491
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, w/dual acid (0.063%)	7	6	0.0639	0.0125	0.0119	0.0056	0.0132	18.63%	8.81%	20.61%	2.339
321.99	Acid Soluble Zinc , Other (0.063%)	7	7	0.0604	0.0154	0.0153	0.0022	0.0155	25.33%	3.65%	25.59%	7.010

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Methods: 145

Sample # 160611

Lab Values

Labs Reporting: 76

WS 25-5-15

Issue Date : 07/31/2016

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0230	8.935	0.1500	10.38	0.7386	0.1663	8	-1.84	7%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0444	9.790	0.1800	10.38	0.7386	0.1663	8	-0.75	3%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0498	10.00	0.2000	10.38	0.7386	0.1663	8	-0.48	2%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0513	10.54	0.0800	10.38	0.7386	0.1663	8	0.21	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0309	10.62	0.3700	10.38	0.7386	0.1663	8	0.31	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0456	10.62	0.0700	10.38	0.7386	0.1663	8	0.31	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0231	10.87	0.2000	10.38	0.7386	0.1663	8	0.63	2%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0486	11.31	0.0800	10.38	0.7386	0.1663	8	1.19	5%	0
001.99	Ammoniacal Nitrogen, Other (%)	0423	10.33	0.0200	11.14	0.8901	0.0886	14	-0.91	4%	0
001.99	Ammoniacal Nitrogen, Other (%)	0487	10.45	0.1000	11.14	0.8901	0.0886	14	-0.78	3%	0
001.99	Ammoniacal Nitrogen, Other (%)	0027	10.51	0.0510	11.14	0.8901	0.0886	14	-0.71	3%	0
001.99	Ammoniacal Nitrogen, Other (%)	0394	10.53	0.0270	11.14	0.8901	0.0886	14	-0.69	3%	0
001.99	Ammoniacal Nitrogen, Other (%)	0513	10.59	0.0700	11.14	0.8901	0.0886	14	-0.63	3%	0
001.99	Ammoniacal Nitrogen, Other (%)	0520	10.70	0.0400	11.14	0.8901	0.0886	14	-0.50	2%	0
001.99	Ammoniacal Nitrogen, Other (%)	0510	10.79	0.0020	11.14	0.8901	0.0886	14	-0.39	2%	0
001.99	Ammoniacal Nitrogen, Other (%)	0519	10.80	0.0100	11.14	0.8901	0.0886	14	-0.39	2%	0
001.99	Ammoniacal Nitrogen, Other (%)	0493	10.83	0.0500	11.14	0.8901	0.0886	14	-0.36	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0220	11.55	0.4800	11.14	0.8901	0.0886	14	0.46	2%	0
001.99	Ammoniacal Nitrogen, Other (%)	0371	11.84	0.1200	11.14	0.8901	0.0886	14	0.78	3%	0
001.99	Ammoniacal Nitrogen, Other (%)	0506	12.15	0.1000	11.14	0.8901	0.0886	14	1.13	5%	0
001.99	Ammoniacal Nitrogen, Other (%)	0096	14.62	0.0300	11.14	0.8901	0.0886	14	3.90	16%	0
001.99	Ammoniacal Nitrogen, Other (%)	0420	15.94	0.1400	11.14	0.8901	0.0886	14	5.39	22%	0
001.99	Ammoniacal Nitrogen, Other (%)	0522	10.98	2.260	11.14	0.8901	0.0886	14	-0.18	1%	1
002.20	Nitrate Nitrogen, Jones Modified (%)	0230	15.65	0.1000				1			0
002.99	Nitrate Nitrogen, Other (%)	0513	12.97	0.0400	14.30	0.4700	0.1437	15	-2.82	5%	0
002.99	Nitrate Nitrogen, Other (%)	0220	13.28	0.1700	14.30	0.4700	0.1437	15	-2.17	4%	0
002.99	Nitrate Nitrogen, Other (%)	0027	13.80	0.1130	14.30	0.4700	0.1437	15	-1.05	2%	0
002.99	Nitrate Nitrogen, Other (%)	0481	14.05	0.0100	14.30	0.4700	0.1437	15	-0.54	1%	0
002.99	Nitrate Nitrogen, Other (%)	0231	14.17	0.3600	14.30	0.4700	0.1437	15	-0.27	0%	0
002.99	Nitrate Nitrogen, Other (%)	0493	14.18	0.0500	14.30	0.4700	0.1437	15	-0.26	0%	0
002.99	Nitrate Nitrogen, Other (%)	0420	14.27	0.2700	14.30	0.4700	0.1437	15	-0.07	0%	0
002.99	Nitrate Nitrogen, Other (%)	0520	14.38	0.0200	14.30	0.4700	0.1437	15	0.18	0%	0
002.99	Nitrate Nitrogen, Other (%)	0423	14.39	0.2200	14.30	0.4700	0.1437	15	0.20	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
002.99	Nitrate Nitrogen, Other (%)	0519	14.39	0.0200	14.30	0.4700	0.1437	15	0.20	0%	0
002.99	Nitrate Nitrogen, Other (%)	0371	14.58	0.0300	14.30	0.4700	0.1437	15	0.59	1%	0
002.99	Nitrate Nitrogen, Other (%)	0498	14.65	0.5000	14.30	0.4700	0.1437	15	0.75	1%	0
002.99	Nitrate Nitrogen, Other (%)	0486	14.71	0.1900	14.30	0.4700	0.1437	15	0.87	1%	0
002.99	Nitrate Nitrogen, Other (%)	0394	14.72	0.0620	14.30	0.4700	0.1437	15	0.91	1%	0
002.99	Nitrate Nitrogen, Other (%)	0506	15.55	0.1000	14.30	0.4700	0.1437	15	2.67	4%	0
003.99	Water Insoluble Nitrogen, Other (%)	0500	10.95	0.0600				1			0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0481	10.82	0.1000	23.85	1.072	0.0529	7	-11.37	27%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0090	23.18	0.0000	23.85	1.072	0.0529	7	-0.59	1%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0513	23.54	0.0800	23.85	1.072	0.0529	7	-0.27	1%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0444	23.95	0.1000	23.85	1.072	0.0529	7	0.08	0%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0309	24.46	0.0000	23.85	1.072	0.0529	7	0.53	1%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0169	24.62	0.0400	23.85	1.072	0.0529	7	0.67	2%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0493	24.98	0.0500	23.85	1.072	0.0529	7	0.98	2%	0
009.99	Ammoniacal Plus Nitrate Nitrogen, Other (%)	0513	23.57	0.0900				2			0
009.99	Ammoniacal Plus Nitrate Nitrogen, Other (%)	0518	25.06	0.0100				2			0
010.11	Total Nitrogen, Modified Comprehensive (25%)	0105	22.95*	2.110	24.42	1.018	0.5650	4	-1.45	3%	0
010.11	Total Nitrogen, Modified Comprehensive (25%)	0309	24.67	0.0500	24.42	1.018	0.5650	4	0.24	0%	0
010.11	Total Nitrogen, Modified Comprehensive (25%)	0500	24.83	0.0500	24.42	1.018	0.5650	4	0.39	1%	0
010.11	Total Nitrogen, Modified Comprehensive (25%)	0510	25.26	0.0500	24.42	1.018	0.5650	4	0.82	2%	0
010.12	Total Nitrogen, Salicylic (25%)	0416	24.03	0.0600	24.70	0.5362	0.7780	5	-1.26	1%	0
010.12	Total Nitrogen, Salicylic (25%)	0211	24.40	0.0900	24.70	0.5362	0.7780	5	-0.57	1%	0
010.12	Total Nitrogen, Salicylic (25%)	0498	24.65	0.3000	24.70	0.5362	0.7780	5	-0.10	0%	0
010.12	Total Nitrogen, Salicylic (25%)	0481	25.04	0.1600	24.70	0.5362	0.7780	5	0.63	1%	0
010.12	Total Nitrogen, Salicylic (25%)	0522	25.40	3.280	24.70	0.5362	0.7780	5	1.30	1%	0
010.17	Total Nitrogen, Comprehensive (25%)	0220	25.63	0.4400				1			0
010.60	Total Nitrogen, Combustion (25%)	0451	19.37*	0.5800	23.90	1.747	0.4736	46	-2.59	9%	0
010.60	Total Nitrogen, Combustion (25%)	0457	19.65*	0.8710	23.90	1.747	0.4736	46	-2.43	9%	0
010.60	Total Nitrogen, Combustion (25%)	0049	20.98*	0.0400	23.90	1.747	0.4736	46	-1.67	6%	0
010.60	Total Nitrogen, Combustion (25%)	0037	21.60*	0.0200	23.90	1.747	0.4736	46	-1.31	5%	0
010.60	Total Nitrogen, Combustion (25%)	0230	21.75*	2.100	23.90	1.747	0.4736	46	-1.23	4%	0
010.60	Total Nitrogen, Combustion (25%)	0390	21.80*	0.2000	23.90	1.747	0.4736	46	-1.20	4%	0
010.60	Total Nitrogen, Combustion (25%)	0072	21.88*	0.3200	23.90	1.747	0.4736	46	-1.15	4%	0
010.60	Total Nitrogen, Combustion (25%)	0086	21.89*	1.323	23.90	1.747	0.4736	46	-1.15	4%	0
010.60	Total Nitrogen, Combustion (25%)	0095	22.20*	0.4100	23.90	1.747	0.4736	46	-0.97	4%	0
010.60	Total Nitrogen, Combustion (25%)	0035	22.51*	0.0500	23.90	1.747	0.4736	46	-0.80	3%	0
010.60	Total Nitrogen, Combustion (25%)	0177	22.54*	0.2520	23.90	1.747	0.4736	46	-0.78	3%	0
010.60	Total Nitrogen, Combustion (25%)	0043	22.92*	0.2900	23.90	1.747	0.4736	46	-0.56	2%	0
010.60	Total Nitrogen, Combustion (25%)	0041	23.07*	0.0800	23.90	1.747	0.4736	46	-0.47	2%	0
010.60	Total Nitrogen, Combustion (25%)	0406	23.26*	0.3800	23.90	1.747	0.4736	46	-0.36	1%	0
010.60	Total Nitrogen, Combustion (25%)	0325	23.30*	0.8000	23.90	1.747	0.4736	46	-0.34	1%	0
010.60	Total Nitrogen, Combustion (25%)	0157	23.30*	1.000	23.90	1.747	0.4736	46	-0.34	1%	0
010.60	Total Nitrogen, Combustion (25%)	0025	23.39*	0.1520	23.90	1.747	0.4736	46	-0.29	1%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010.60	Total Nitrogen, Combustion (25%)	0356	23.42*	1.230	23.90	1.747	0.4736	46	-0.28	1%	0
010.60	Total Nitrogen, Combustion (25%)	0231	23.44*	0.0800	23.90	1.747	0.4736	46	-0.26	1%	0
010.60	Total Nitrogen, Combustion (25%)	0105	23.47	1.300	23.90	1.747	0.4736	46	-0.24	1%	0
010.60	Total Nitrogen, Combustion (25%)	0472	23.50	1.000	23.90	1.747	0.4736	46	-0.23	1%	0
010.60	Total Nitrogen, Combustion (25%)	0234	23.67	0.0700	23.90	1.747	0.4736	46	-0.13	0%	0
010.60	Total Nitrogen, Combustion (25%)	0073	23.68	0.4000	23.90	1.747	0.4736	46	-0.12	0%	0
010.60	Total Nitrogen, Combustion (25%)	0481	23.82	0.0900	23.90	1.747	0.4736	46	-0.05	0%	0
010.60	Total Nitrogen, Combustion (25%)	0444	23.82	0.2600	23.90	1.747	0.4736	46	-0.04	0%	0
010.60	Total Nitrogen, Combustion (25%)	0354	24.02	0.4770	23.90	1.747	0.4736	46	0.07	0%	0
010.60	Total Nitrogen, Combustion (25%)	0292	24.28	0.0000	23.90	1.747	0.4736	46	0.22	1%	0
010.60	Total Nitrogen, Combustion (25%)	0523	24.30	0.2000	23.90	1.747	0.4736	46	0.23	1%	0
010.60	Total Nitrogen, Combustion (25%)	0102	24.37	0.4900	23.90	1.747	0.4736	46	0.27	1%	0
010.60	Total Nitrogen, Combustion (25%)	0486	24.49	0.8300	23.90	1.747	0.4736	46	0.34	1%	0
010.60	Total Nitrogen, Combustion (25%)	0423	24.62	0.0600	23.90	1.747	0.4736	46	0.41	2%	0
010.60	Total Nitrogen, Combustion (25%)	0027	24.91	0.2670	23.90	1.747	0.4736	46	0.58	2%	0
010.60	Total Nitrogen, Combustion (25%)	0007	25.20	0.8000	23.90	1.747	0.4736	46	0.75	3%	0
010.60	Total Nitrogen, Combustion (25%)	0291	25.26	0.0100	23.90	1.747	0.4736	46	0.78	3%	0
010.60	Total Nitrogen, Combustion (25%)	0452	25.27	0.0400	23.90	1.747	0.4736	46	0.79	3%	0
010.60	Total Nitrogen, Combustion (25%)	0402	25.30	0.6600	23.90	1.747	0.4736	46	0.80	3%	0
010.60	Total Nitrogen, Combustion (25%)	0055	25.31	0.0300	23.90	1.747	0.4736	46	0.81	3%	0
010.60	Total Nitrogen, Combustion (25%)	0023	25.41	0.8870	23.90	1.747	0.4736	46	0.87	3%	0
010.60	Total Nitrogen, Combustion (25%)	0131	25.46	0.1400	23.90	1.747	0.4736	46	0.90	3%	0
010.60	Total Nitrogen, Combustion (25%)	0136	25.55	0.0200	23.90	1.747	0.4736	46	0.95	3%	0
010.60	Total Nitrogen, Combustion (25%)	0389	25.65	0.5000	23.90	1.747	0.4736	46	1.00	4%	0
010.60	Total Nitrogen, Combustion (25%)	0034	25.74	0.3200	23.90	1.747	0.4736	46	1.06	4%	0
010.60	Total Nitrogen, Combustion (25%)	0521	26.81	2.019	23.90	1.747	0.4736	46	1.67	6%	0
010.60	Total Nitrogen, Combustion (25%)	0482	27.75	0.3000	23.90	1.747	0.4736	46	2.21	8%	0
010.60	Total Nitrogen, Combustion (25%)	0483	28.50	0.1000	23.90	1.747	0.4736	46	2.64	10%	0
010.60	Total Nitrogen, Combustion (25%)	0420	30.23	0.3400	23.90	1.747	0.4736	46	3.63	13%	0
010.60	Total Nitrogen, Combustion (25%)	0117	21.30*	6.200	23.90	1.747	0.4736	46	-1.49	5%	1
010.60	Total Nitrogen, Combustion (25%)	0233	23.59	3.640	23.90	1.747	0.4736	46	-0.17	1%	1
010.60	Total Nitrogen, Combustion (25%)	0324	5.795*	0.0300	23.90	1.747	0.4736	46	-10.36	38%	2
010.99	Total Nitrogen, Other (25%)	0513	23.57	0.0900	26.42	2.820	0.1233	6	-0.94	5%	0
010.99	Total Nitrogen, Other (25%)	0520	25.08	0.0200	26.42	2.820	0.1233	6	-0.44	3%	0
010.99	Total Nitrogen, Other (25%)	0519	25.19	0.0300	26.42	2.820	0.1233	6	-0.41	2%	0
010.99	Total Nitrogen, Other (25%)	0371	26.42	0.1500	26.42	2.820	0.1233	6	0.00	0%	0
010.99	Total Nitrogen, Other (25%)	0506	27.65	0.1000	26.42	2.820	0.1233	6	0.40	2%	0
010.99	Total Nitrogen, Other (25%)	0524	33.68	0.3500	26.42	2.820	0.1233	6	2.38	14%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0157	4.420	0.3600	4.927	0.6101	0.2086	7	-0.78	5%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0105	4.510	0.7600	4.927	0.6101	0.2086	7	-0.64	4%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0090	4.515	0.0100	4.927	0.6101	0.2086	7	-0.63	4%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0500	4.685	0.0300	4.927	0.6101	0.2086	7	-0.37	2%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0211	5.120	0.0200	4.927	0.6101	0.2086	7	0.30	2%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0049	5.420	0.2800	4.927	0.6101	0.2086	7	0.76	5%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0444	5.820	0.0000	4.927	0.6101	0.2086	7	1.37	9%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0324	1.260	0.2200	4.917	0.6146	0.3468	16	-5.95	37%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0356	3.905	0.4900	4.917	0.6146	0.3468	16	-1.65	10%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0177	4.309	0.1369	4.917	0.6146	0.3468	16	-0.99	6%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0292	4.360	0.0000	4.917	0.6146	0.3468	16	-0.91	6%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0506	4.555	0.1900	4.917	0.6146	0.3468	16	-0.59	4%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0428	4.822	1.555	4.917	0.6146	0.3468	16	-0.15	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0510	4.963	0.0030	4.917	0.6146	0.3468	16	0.07	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0522	4.975	1.550	4.917	0.6146	0.3468	16	0.09	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0481	5.085	0.2900	4.917	0.6146	0.3468	16	0.27	2%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0231	5.135	0.1500	4.917	0.6146	0.3468	16	0.35	2%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0309	5.215	0.0500	4.917	0.6146	0.3468	16	0.48	3%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0169	5.240	0.0600	4.917	0.6146	0.3468	16	0.52	3%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0416	5.260	0.0600	4.917	0.6146	0.3468	16	0.56	3%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0300	5.315	0.2300	4.917	0.6146	0.3468	16	0.65	4%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0406	5.615	0.1700	4.917	0.6146	0.3468	16	1.13	7%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0457	5.855	0.3930	4.917	0.6146	0.3468	16	1.52	10%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0096	3.470	0.1600	4.229	0.5149	0.3725	4	-1.47	9%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0035	4.360	0.5400	4.229	0.5149	0.3725	4	0.25	2%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0105	4.490	0.7200	4.229	0.5149	0.3725	4	0.51	3%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0456	4.595	0.0700	4.229	0.5149	0.3725	4	0.71	4%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0433	4.425	0.0020	5.095	0.5051	0.1984	13	-1.33	7%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0157	4.540	0.0400	5.095	0.5051	0.1984	13	-1.10	5%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0472	4.710	0.5800	5.095	0.5051	0.1984	13	-0.76	4%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0521	4.742	0.1766	5.095	0.5051	0.1984	13	-0.70	3%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0234	4.950	0.1400	5.095	0.5051	0.1984	13	-0.29	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0482	4.980	0.0400	5.095	0.5051	0.1984	13	-0.23	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0389	5.040	0.2400	5.095	0.5051	0.1984	13	-0.11	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0523	5.050	0.3000	5.095	0.5051	0.1984	13	-0.09	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0423	5.280	0.1600	5.095	0.5051	0.1984	13	0.37	2%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0451	5.370	0.1000	5.095	0.5051	0.1984	13	0.54	3%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0483	5.575	0.2500	5.095	0.5051	0.1984	13	0.95	5%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0444	5.725	0.0300	5.095	0.5051	0.1984	13	1.25	6%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0402	6.520	0.5200	5.095	0.5051	0.1984	13	2.82	14%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0390	5.350	1.680	5.095	0.5051	0.1984	13	0.50	2%	1
020.99	Total Phosphorus as P2O5, Other (%)	0513	5.090	0.1000	5.517	0.4954	0.0333	3	-0.86	4%	0
020.99	Total Phosphorus as P2O5, Other (%)	0487	5.400	0.0000	5.517	0.4954	0.0333	3	-0.24	1%	0
020.99	Total Phosphorus as P2O5, Other (%)	0520	6.060	0.0000	5.517	0.4954	0.0333	3	1.10	5%	0
030.40	Citrate Insoluble Phosphorus as P2O5, Automat... (%)	0096	0.0150	0.0100				1			0
040.20	Indirect Available Phosphorus as P2O5, Spectr... (5%)	0300	5.305	0.2300				1			0
040.40	Indirect Available Phosphorus as P2O5, Automa... (5%)	0096	3.455*	0.1500				1			0
040.50	Indirect Available Phosphorus as P2O5, ICP (5%)	0072	4.940	0.3600				1			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
041.10	Direct Available Phosphorus as P2O5, Gravimet... (5%)	0102	4.900	0.0000	5.590	1.191	0.2154	3	-0.58	6%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (5%)	0072	4.905	0.3300	5.590	1.191	0.2154	3	-0.58	6%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (5%)	0086	6.965	0.3162	5.590	1.191	0.2154	3	1.15	12%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (5%)	0105	4.480	0.6200	4.924	0.3260	0.3325	4	-1.36	5%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (5%)	0055	4.910	0.3200	4.924	0.3260	0.3325	4	-0.04	0%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (5%)	0513	5.060	0.1200	4.924	0.3260	0.3325	4	0.42	1%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (5%)	0220	5.245	0.2700	4.924	0.3260	0.3325	4	0.99	3%	0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (5%)	0027	4.995	0.1340				2			0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (5%)	0498	5.200	0.2000				2			0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (5%)	0522	4.965	1.370				1			0
041.40	Direct Available Phosphorus as P2O5, Automate... (5%)	0095	5.420	0.3000				2			0
041.40	Direct Available Phosphorus as P2O5, Automate... (5%)	0131	5.750	0.6400				2			0
041.50	Direct Available Phosphorus as P2O5, ICP (5%)	0007	4.200*	0.4000	4.877	0.7057	0.2260	5	-0.88	7%	0
041.50	Direct Available Phosphorus as P2O5, ICP (5%)	0325	4.220*	0.3600	4.877	0.7057	0.2260	5	-0.85	7%	0
041.50	Direct Available Phosphorus as P2O5, ICP (5%)	0043	4.860	0.3400	4.877	0.7057	0.2260	5	-0.02	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (5%)	0291	5.245	0.0100	4.877	0.7057	0.2260	5	0.48	4%	0
041.50	Direct Available Phosphorus as P2O5, ICP (5%)	0452	5.860	0.0200	4.877	0.7057	0.2260	5	1.27	10%	0
041.50	Direct Available Phosphorus as P2O5, ICP (5%)	0233	4.407	1.762	4.877	0.7057	0.2260	5	-0.61	5%	1
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (5%)	0023	4.405	0.1100	4.762	0.4235	0.1075	3	-0.84	4%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (5%)	0025	4.651	0.0525	4.762	0.4235	0.1075	3	-0.26	1%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (5%)	0423	5.230	0.1600	4.762	0.4235	0.1075	3	1.10	5%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (5%)	0354	3.285*	0.0100	4.723	0.4747	0.2157	12	-3.03	15%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (5%)	0230	4.350	0.5800	4.723	0.4747	0.2157	12	-0.79	4%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (5%)	0034	4.359	0.0510	4.723	0.4747	0.2157	12	-0.77	4%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (5%)	0037	4.370	0.0280	4.723	0.4747	0.2157	12	-0.74	4%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (5%)	0105	4.440	0.7400	4.723	0.4747	0.2157	12	-0.60	3%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (5%)	0136	4.750	0.1800	4.723	0.4747	0.2157	12	0.06	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (5%)	0397	4.860	0.0690	4.723	0.4747	0.2157	12	0.29	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (5%)	0073	4.865	0.2300	4.723	0.4747	0.2157	12	0.30	2%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (5%)	0043	5.020	0.2400	4.723	0.4747	0.2157	12	0.63	3%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (5%)	0472	5.045	0.4100	4.723	0.4747	0.2157	12	0.68	3%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (5%)	0231	5.175	0.0100	4.723	0.4747	0.2157	12	0.95	5%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (5%)	0486	5.790	0.0400	4.723	0.4747	0.2157	12	2.25	11%	0
041.99	Direct Available Phosphorus as P2O5, Other (5%)	0105	4.460	0.7000	5.118	0.5830	0.2100	4	-1.13	6%	0
041.99	Direct Available Phosphorus as P2O5, Other (5%)	0518	5.050	0.0600	5.118	0.5830	0.2100	4	-0.12	1%	0
041.99	Direct Available Phosphorus as P2O5, Other (5%)	0519	5.080	0.0800	5.118	0.5830	0.2100	4	-0.06	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (5%)	0520	5.880	0.0000	5.118	0.5830	0.2100	4	1.31	7%	0
042.99	Water Soluble Orthophosphate as P2O5, Other (%)	0513	5.130	0.1000				1			0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0394	5.257	0.0660				1			0
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	0096	2.720	0.1800				1			0
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	0444	5.805	0.0300				1			0
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	0090	12.46*	0.2800	14.64	1.613	0.2020	10	-1.29	7%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	0073	12.54*	0.2800	14.64	1.613	0.2020	10	-1.24	7%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	0072	14.31	0.4500	14.64	1.613	0.2020	10	-0.20	1%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	0220	14.35	0.1000	14.64	1.613	0.2020	10	-0.17	1%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	0211	14.52	0.0800	14.64	1.613	0.2020	10	-0.07	0%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	0231	14.61	0.7000	14.64	1.613	0.2020	10	-0.02	0%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	0055	14.93	0.0400	14.64	1.613	0.2020	10	0.17	1%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	0416	15.52	0.0500	14.64	1.613	0.2020	10	0.52	3%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	0102	16.10	0.0000	14.64	1.613	0.2020	10	0.86	5%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	0049	18.30	0.0400	14.64	1.613	0.2020	10	2.16	13%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (15%)	0522	13.92	5.060	14.64	1.613	0.2020	10	-0.42	2%	1
050.30	Soluble Potassium as K2O, AA (Oxalate) (15%)	0356	9.990*	2.060	12.84	1.924	0.6625	4	-1.48	11%	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (15%)	0309	13.39	0.1500	12.84	1.924	0.6625	4	0.28	2%	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (15%)	0136	14.00	0.0400	12.84	1.924	0.6625	4	0.60	5%	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (15%)	0157	14.00	0.4000	12.84	1.924	0.6625	4	0.60	5%	0
050.31	Soluble Potassium as K2O, AA (Citrate) (15%)	0472	13.78	0.0500				2			0
050.31	Soluble Potassium as K2O, AA (Citrate) (15%)	0498	15.35	0.3000				2			0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	0420	0.5910*	0.0006	11.88	6.267	0.6051	10	-1.72	48%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	0324	3.120*	0.0000	11.88	6.267	0.6051	10	-1.33	37%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	0397	9.533*	0.9080	11.88	6.267	0.6051	10	-0.36	10%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	0292	10.86*	0.0400	11.88	6.267	0.6051	10	-0.16	4%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	0157	12.85*	0.3000	11.88	6.267	0.6051	10	0.15	4%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	0055	13.91	0.1200	11.88	6.267	0.6051	10	0.31	9%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	0406	14.31	0.3600	11.88	6.267	0.6051	10	0.37	10%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	0230	15.40	0.4000	11.88	6.267	0.6051	10	0.54	15%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	0444	17.59	0.4300	11.88	6.267	0.6051	10	0.87	24%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	0086	18.76	3.493	11.88	6.267	0.6051	10	1.05	29%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (15%)	0390	19.88	8.350	11.88	6.267	0.6051	10	1.22	34%	1
050.51	Soluble Potassium as K2O, ICP (Citrate) (15%)	0007	12.00*	0.0000	14.24	2.574	0.4033	6	-0.81	8%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (15%)	0483	12.03*	0.5500	14.24	2.574	0.4033	6	-0.80	8%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (15%)	0291	13.85	0.0400	14.24	2.574	0.4033	6	-0.14	1%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (15%)	0043	14.35	1.480	14.24	2.574	0.4033	6	0.04	0%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (15%)	0452	15.12	0.0700	14.24	2.574	0.4033	6	0.31	3%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (15%)	0072	23.02	0.2800	14.24	2.574	0.4033	6	3.16	31%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (15%)	0354	8.140*	0.0200	12.73	2.761	0.1470	5	-1.52	18%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (15%)	0023	12.39*	0.1700	12.73	2.761	0.1470	5	-0.11	1%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (15%)	0025	13.61	0.4071	12.73	2.761	0.1470	5	0.29	3%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (15%)	0486	14.38	0.0600	12.73	2.761	0.1470	5	0.55	6%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (15%)	0423	15.14	0.0780	12.73	2.761	0.1470	5	0.80	9%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (15%)	0233	11.78*	5.560	12.73	2.761	0.1470	5	-0.31	4%	1
050.60	Soluble Potassium as K2O, Flame Photometric ... (15%)	0105	12.85*	3.020	14.34	1.290	1.030	3	-1.15	5%	0
050.60	Soluble Potassium as K2O, Flame Photometric ... (15%)	0169	15.05	0.0600	14.34	1.290	1.030	3	0.55	2%	0
050.60	Soluble Potassium as K2O, Flame Photometric ... (15%)	0510	15.12	0.0100	14.34	1.290	1.030	3	0.60	3%	0
050.61	Soluble Potassium as K2O, Flame Photometric ... (15%)	0456	12.66*	0.0800	13.95	1.505	0.4225	4	-0.85	5%	0
050.61	Soluble Potassium as K2O, Flame Photometric ... (15%)	0035	12.67*	0.8800	13.95	1.505	0.4225	4	-0.85	5%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
050.61	Soluble Potassium as K2O, Flame Photometric (... (15%)	0519	14.89	0.0600	13.95	1.505	0.4225	4	0.63	3%	0
050.61	Soluble Potassium as K2O, Flame Photometric (... (15%)	0131	15.57	0.6700	13.95	1.505	0.4225	4	1.08	6%	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (15%)	0037	12.70*	0.0500	13.77	1.415	1.174	4	-0.76	4%	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (15%)	0105	12.74*	2.900	13.77	1.415	1.174	4	-0.73	4%	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (15%)	0034	13.94	0.2650	13.77	1.415	1.174	4	0.12	1%	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (15%)	0095	15.71	1.480	13.77	1.415	1.174	4	1.37	7%	0
050.99	Soluble Potassium as K2O, Other (15%)	0096	5.675*	0.1100	14.56	1.581	0.3564	23	-5.62	31%	0
050.99	Soluble Potassium as K2O, Other (15%)	0521	10.82*	0.5869	14.56	1.581	0.3564	23	-2.37	13%	0
050.99	Soluble Potassium as K2O, Other (15%)	0433	11.86*	0.0170	14.56	1.581	0.3564	23	-1.71	9%	0
050.99	Soluble Potassium as K2O, Other (15%)	0177	12.52*	0.0119	14.56	1.581	0.3564	23	-1.29	7%	0
050.99	Soluble Potassium as K2O, Other (15%)	0325	12.90*	1.000	14.56	1.581	0.3564	23	-1.05	6%	0
050.99	Soluble Potassium as K2O, Other (15%)	0482	14.10	0.0000	14.56	1.581	0.3564	23	-0.29	2%	0
050.99	Soluble Potassium as K2O, Other (15%)	0043	14.23	1.260	14.56	1.581	0.3564	23	-0.21	1%	0
050.99	Soluble Potassium as K2O, Other (15%)	0493	14.33	0.0500	14.56	1.581	0.3564	23	-0.15	1%	0
050.99	Soluble Potassium as K2O, Other (15%)	0481	14.35	0.0900	14.56	1.581	0.3564	23	-0.14	1%	0
050.99	Soluble Potassium as K2O, Other (15%)	0520	14.41	0.2100	14.56	1.581	0.3564	23	-0.10	1%	0
050.99	Soluble Potassium as K2O, Other (15%)	0523	14.50	0.4000	14.56	1.581	0.3564	23	-0.04	0%	0
050.99	Soluble Potassium as K2O, Other (15%)	0389	14.65	0.4700	14.56	1.581	0.3564	23	0.05	0%	0
050.99	Soluble Potassium as K2O, Other (15%)	0487	14.65	0.3000	14.56	1.581	0.3564	23	0.05	0%	0
050.99	Soluble Potassium as K2O, Other (15%)	0518	15.08	0.0000	14.56	1.581	0.3564	23	0.33	2%	0
050.99	Soluble Potassium as K2O, Other (15%)	0394	15.28	0.0060	14.56	1.581	0.3564	23	0.45	2%	0
050.99	Soluble Potassium as K2O, Other (15%)	0513	15.42	0.0000	14.56	1.581	0.3564	23	0.54	3%	0
050.99	Soluble Potassium as K2O, Other (15%)	0500	15.43	0.0600	14.56	1.581	0.3564	23	0.55	3%	0
050.99	Soluble Potassium as K2O, Other (15%)	0451	15.55	0.4500	14.56	1.581	0.3564	23	0.62	3%	0
050.99	Soluble Potassium as K2O, Other (15%)	0234	15.58	0.2900	14.56	1.581	0.3564	23	0.64	3%	0
050.99	Soluble Potassium as K2O, Other (15%)	0457	15.78	2.130	14.56	1.581	0.3564	23	0.77	4%	0
050.99	Soluble Potassium as K2O, Other (15%)	0027	15.80	0.4360	14.56	1.581	0.3564	23	0.78	4%	0
050.99	Soluble Potassium as K2O, Other (15%)	0444	17.57	0.0500	14.56	1.581	0.3564	23	1.90	10%	0
050.99	Soluble Potassium as K2O, Other (15%)	0402	18.37	0.2700	14.56	1.581	0.3564	23	2.40	13%	0
050.99	Soluble Potassium as K2O, Other (15%)	0105	12.62*	3.210	14.56	1.581	0.3564	23	-1.23	7%	1
060.00	Water (Free), Vacuum Oven (%)	0007	0.1950	0.0300				2			0
060.00	Water (Free), Vacuum Oven (%)	0096	1.095	0.0500				2			0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0513	0.6850	0.0100				1			0
060.99	Water (Free), Other (%)	0510	0.8650	0.0100				2			0
060.99	Water (Free), Other (%)	0513	1.065	0.0300				2			0
101.00	Acid Soluble Calcium, AA, inorganic 965.09 (%)	0105	0.0115	0.0010				1			0
101.03	Acid Soluble Calcium, AA, 965.09, test portio... (%)	0105	0.0130	0.0020				1			0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0354	0.0128	0.0024	0.0144	0.0026	0.0013	5	-0.55	5%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0096	0.0130	0.0000	0.0144	0.0026	0.0013	5	-0.48	5%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0102	0.0135	0.0010	0.0144	0.0026	0.0013	5	-0.30	3%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0482	0.0135	0.0010	0.0144	0.0026	0.0013	5	-0.30	3%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0035	0.0190	0.0020	0.0144	0.0026	0.0013	5	1.62	16%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0483	1.225	0.5000	0.0144	0.0026	0.0013	5	423.09	4215%	1

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0521	0.0096	0.0012				1			0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0117	0.0118	0.0071				2			0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0086	0.0133	0.0005				2			0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.1%)	0105	0.2425	0.0090	0.2678	0.0205	0.0060	5	-1.23	5%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.1%)	0309	0.2500	0.0000	0.2678	0.0205	0.0060	5	-0.87	3%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.1%)	0043	0.2755	0.0050	0.2678	0.0205	0.0060	5	0.38	1%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.1%)	0457	0.2810	0.0160	0.2678	0.0205	0.0060	5	0.64	2%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.1%)	0481	0.2900	0.0000	0.2678	0.0205	0.0060	5	1.08	4%	0
121.03	Acid Soluble Magnesium, AA, 965.09, test port... (0.1%)	0105	0.2565	0.0170				1			0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0324	0.0675	0.0010	0.2674	0.0324	0.0123	19	-6.17	37%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0472	0.1100	0.0200	0.2674	0.0324	0.0123	19	-4.86	29%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0049	0.2363	0.0009	0.2674	0.0324	0.0123	19	-0.96	6%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0035	0.2375	0.0030	0.2674	0.0324	0.0123	19	-0.92	6%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0234	0.2450	0.0380	0.2674	0.0324	0.0123	19	-0.69	4%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0444	0.2550	0.0100	0.2674	0.0324	0.0123	19	-0.38	2%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0233	0.2568	0.0185	0.2674	0.0324	0.0123	19	-0.33	2%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0390	0.2605	0.0050	0.2674	0.0324	0.0123	19	-0.21	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0482	0.2650	0.0100	0.2674	0.0324	0.0123	19	-0.07	0%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0230	0.2655	0.0310	0.2674	0.0324	0.0123	19	-0.06	0%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0055	0.2700	0.0400	0.2674	0.0324	0.0123	19	0.08	0%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0095	0.2700	0.0200	0.2674	0.0324	0.0123	19	0.08	0%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0291	0.2750	0.0100	0.2674	0.0324	0.0123	19	0.23	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0433	0.2927	0.0003	0.2674	0.0324	0.0123	19	0.78	5%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0102	0.2930	0.0000	0.2674	0.0324	0.0123	19	0.79	5%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0420	0.2982	0.0026	0.2674	0.0324	0.0123	19	0.95	6%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0354	0.3020	0.0040	0.2674	0.0324	0.0123	19	1.07	6%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0096	0.3050	0.0100	0.2674	0.0324	0.0123	19	1.16	7%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0231	0.3350	0.0100	0.2674	0.0324	0.0123	19	2.09	13%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.1%)	0483	0.5198	0.0605	0.2674	0.0324	0.0123	19	7.79	47%	1
121.32	Acid Soluble Magnesium, ICP, test portion 200... (0.1%)	0072	0.2200	0.0000	0.3721	0.2175	0.0059	3	-0.70	20%	0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (0.1%)	0423	0.2750	0.0020	0.3721	0.2175	0.0059	3	-0.45	13%	0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (0.1%)	0521	0.6212	0.0158	0.3721	0.2175	0.0059	3	1.15	33%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (0.1%)	0397	0.1990	0.0020	0.2622	0.0213	0.0078	7	-2.77	12%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (0.1%)	0486	0.2550	0.0100	0.2622	0.0213	0.0078	7	-0.32	1%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (0.1%)	0037	0.2587	0.0034	0.2622	0.0213	0.0078	7	-0.16	1%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (0.1%)	0177	0.2597	0.0094	0.2622	0.0213	0.0078	7	-0.11	0%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (0.1%)	0515	0.2686	0.0096	0.2622	0.0213	0.0078	7	0.28	1%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (0.1%)	0023	0.2710	0.0020	0.2622	0.0213	0.0078	7	0.38	2%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (0.1%)	0117	0.2924	0.0182	0.2622	0.0213	0.0078	7	1.32	6%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (0.1%)	0086	0.2097	0.0535	0.2622	0.0213	0.0078	7	-2.31	10%	1
121.99	Acid Soluble Magnesium, Other (0.1%)	0515	0.2456	0.0006	0.2910	0.0284	0.0070	6	-1.48	8%	0
121.99	Acid Soluble Magnesium, Other (0.1%)	0389	0.2825	0.0070	0.2910	0.0284	0.0070	6	-0.28	1%	0
121.99	Acid Soluble Magnesium, Other (0.1%)	0220	0.2900	0.0000	0.2910	0.0284	0.0070	6	-0.03	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
121.99	Acid Soluble Magnesium, Other (0.1%)	0523	0.3000	0.0000	0.2910	0.0284	0.0070	6	0.29	2%	0
121.99	Acid Soluble Magnesium, Other (0.1%)	0524	0.3014	0.0096	0.2910	0.0284	0.0070	6	0.34	2%	0
121.99	Acid Soluble Magnesium, Other (0.1%)	0027	0.3235	0.0250	0.2910	0.0284	0.0070	6	1.06	6%	0
131.00	Water Soluble Magnesium, AA (%)	0309	0.2500	0.0000				2			0
131.00	Water Soluble Magnesium, AA (%)	0498	0.4650	0.0100				2			0
131.30	Water Soluble Magnesium, ICP (%)	0519	0.1900	0.0200	0.2665	0.0239	0.0143	6	-2.97	14%	0
131.30	Water Soluble Magnesium, ICP (%)	0444	0.2600	0.0200	0.2665	0.0239	0.0143	6	-0.25	1%	0
131.30	Water Soluble Magnesium, ICP (%)	0394	0.2670	0.0000	0.2665	0.0239	0.0143	6	0.02	0%	0
131.30	Water Soluble Magnesium, ICP (%)	0211	0.2690	0.0080	0.2665	0.0239	0.0143	6	0.10	0%	0
131.30	Water Soluble Magnesium, ICP (%)	0230	0.2700	0.0200	0.2665	0.0239	0.0143	6	0.14	1%	0
131.30	Water Soluble Magnesium, ICP (%)	0027	0.3020	0.0180	0.2665	0.0239	0.0143	6	1.38	7%	0
131.70	Water Soluble Magnesium, Titrimetric (EDTA) (%)	0520	0.4550	0.0300				1			0
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon... (%)	0055	0.2350	0.0100				1			0
143.99	Elemental Sulfur, Other (%)	0472	0.1750	0.0100	0.2002	0.0337	0.0070	3	-0.75	6%	0
143.99	Elemental Sulfur, Other (%)	0390	0.1870	0.0080	0.2002	0.0337	0.0070	3	-0.39	3%	0
143.99	Elemental Sulfur, Other (%)	0389	0.2385	0.0030	0.2002	0.0337	0.0070	3	1.14	10%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0233	0.1625	0.0745	0.2292	0.0663	0.0482	3	-1.01	15%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0027	0.2300	0.0400	0.2292	0.0663	0.0482	3	0.01	0%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0220	0.2950	0.0300	0.2292	0.0663	0.0482	3	0.99	14%	0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0231	0.2300	0.0200				2			0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0444	0.2700	0.0000				2			0
148.00	Total Sulfur, Combustion (0.13%)	0136	0.1800	0.0400				1			0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (0.13%)	0500	0.1600	0.0000	0.3556	0.3643	0.0585	5	-0.54	27%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (0.13%)	0105	0.1700	0.0400	0.3556	0.3643	0.0585	5	-0.51	26%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (0.13%)	0481	0.2100	0.0200	0.3556	0.3643	0.0585	5	-0.40	20%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (0.13%)	0457	0.2328	0.0425	0.3556	0.3643	0.0585	5	-0.34	17%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (0.13%)	0230	1.005	0.1900	0.3556	0.3643	0.0585	5	1.78	91%	0
148.04	Total Sulfur, ICP, w/Br digestion (0.13%)	0394	0.2015	0.0030				1			0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (0.13%)	0519	0.1200	0.0000	0.1908	0.0425	0.0142	8	-1.57	19%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (0.13%)	0515	0.1641	0.0266	0.1908	0.0425	0.0142	8	-0.59	7%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (0.13%)	0486	0.1650	0.0100	0.1908	0.0425	0.0142	8	-0.57	7%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (0.13%)	0023	0.1890	0.0120	0.1908	0.0425	0.0142	8	-0.04	0%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (0.13%)	0177	0.1947	0.0001	0.1908	0.0425	0.0142	8	0.09	1%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (0.13%)	0444	0.2250	0.0100	0.1908	0.0425	0.0142	8	0.76	9%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (0.13%)	0483	0.2273	0.0425	0.1908	0.0425	0.0142	8	0.81	10%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (0.13%)	0102	0.2340	0.0120	0.1908	0.0425	0.0142	8	0.96	11%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (0.13%)	0117	0.2047	0.1438	0.1908	0.0425	0.0142	8	0.31	4%	1
148.99	Total Sulfur, Other (0.13%)	0096	0.1136	0.0291	0.2296	0.0949	0.0150	8	-1.15	25%	0
148.99	Total Sulfur, Other (0.13%)	0354	0.1514	0.0012	0.2296	0.0949	0.0150	8	-0.78	17%	0
148.99	Total Sulfur, Other (0.13%)	0506	0.1700	0.0200	0.2296	0.0949	0.0150	8	-0.59	13%	0
148.99	Total Sulfur, Other (0.13%)	0523	0.2300	0.0200	0.2296	0.0949	0.0150	8	0.00	0%	0
148.99	Total Sulfur, Other (0.13%)	0482	0.2350	0.0100	0.2296	0.0949	0.0150	8	0.05	1%	0
148.99	Total Sulfur, Other (0.13%)	0072	0.2800	0.0200	0.2296	0.0949	0.0150	8	0.50	11%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
148.99	Total Sulfur, Other (0.13%)	0291	0.2850	0.0100	0.2296	0.0949	0.0150	8	0.55	12%	0
148.99	Total Sulfur, Other (0.13%)	0520	1.085	0.0100	0.2296	0.0949	0.0150	8	8.50	186%	0
148.99	Total Sulfur, Other (0.13%)	0086	0.3314	0.1403	0.2296	0.0949	0.0150	8	1.01	22%	1
149.04	Sulfur - HNO3 soluble, ICP (%)	0521	0.2069	0.0062	0.2251	0.0293	0.0088	3	-0.62	4%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0423	0.2095	0.0010	0.2251	0.0293	0.0088	3	-0.53	3%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0524	0.2589	0.0193	0.2251	0.0293	0.0088	3	1.15	8%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0519	0.0100	0.0000				2			0
151.30	Acid Soluble Arsenic , ICP (ppm)	0394	0.0869	0.0115				2			0
151.30	Acid Soluble Arsenic , ICP (ppm)	0211	0.0000	0.0000				2			4
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0515	0.1046	0.1875				1			0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0515	0.0311	0.0621				0			4
151.99	Acid Soluble Arsenic , Other (ppm)	0220	0.0100	0.0000				1			0
165.00	Acid Soluble Boron , Spectrophotometric (0.025%)	0506	0.0200	0.0000	0.0235	0.0034	0.0005	4	-1.03	7%	0
165.00	Acid Soluble Boron , Spectrophotometric (0.025%)	0055	0.0215	0.0010	0.0235	0.0034	0.0005	4	-0.59	4%	0
165.00	Acid Soluble Boron , Spectrophotometric (0.025%)	0220	0.0250	0.0000	0.0235	0.0034	0.0005	4	0.44	3%	0
165.00	Acid Soluble Boron , Spectrophotometric (0.025%)	0481	0.0275	0.0010	0.0235	0.0034	0.0005	4	1.18	9%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.025%)	0324	0.00480*	0.0002	0.0205	0.0041	0.0008	11	-3.70	38%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.025%)	0397	0.01570*	0.0004	0.0205	0.0041	0.0008	11	-1.13	12%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.025%)	0354	0.01600*	0.0008	0.0205	0.0041	0.0008	11	-1.06	11%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.025%)	0234	0.0210	0.0020	0.0205	0.0041	0.0008	11	0.12	1%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.025%)	0023	0.0210	0.0000	0.0205	0.0041	0.0008	11	0.12	1%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.025%)	0072	0.0210	0.0000	0.0205	0.0041	0.0008	11	0.12	1%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.025%)	0433	0.0212	0.0002	0.0205	0.0041	0.0008	11	0.17	2%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.025%)	0090	0.0225	0.0010	0.0205	0.0041	0.0008	11	0.47	5%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.025%)	0394	0.0236	0.0010	0.0205	0.0041	0.0008	11	0.73	8%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.025%)	0389	0.0241	0.0007	0.0205	0.0041	0.0008	11	0.84	9%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.025%)	0444	0.0250	0.0020	0.0205	0.0041	0.0008	11	1.06	11%	0
165.99	Acid Soluble Boron , Other (0.025%)	0043	0.00600*	0.0004	0.0234	0.0031	0.0013	19	-5.64	37%	0
165.99	Acid Soluble Boron , Other (0.025%)	0520	0.00935*	0.0003	0.0234	0.0031	0.0013	19	-4.56	30%	0
165.99	Acid Soluble Boron , Other (0.025%)	0472	0.0200	0.0000	0.0234	0.0031	0.0013	19	-1.11	7%	0
165.99	Acid Soluble Boron , Other (0.025%)	0519	0.0210	0.0020	0.0234	0.0031	0.0013	19	-0.78	5%	0
165.99	Acid Soluble Boron , Other (0.025%)	0515	0.0213	0.0001	0.0234	0.0031	0.0013	19	-0.70	5%	0
165.99	Acid Soluble Boron , Other (0.025%)	0523	0.0215	0.0010	0.0234	0.0031	0.0013	19	-0.62	4%	0
165.99	Acid Soluble Boron , Other (0.025%)	0457	0.0226	0.0013	0.0234	0.0031	0.0013	19	-0.28	2%	0
165.99	Acid Soluble Boron , Other (0.025%)	0423	0.0235	0.0010	0.0234	0.0031	0.0013	19	0.02	0%	0
165.99	Acid Soluble Boron , Other (0.025%)	0230	0.0236	0.0015	0.0234	0.0031	0.0013	19	0.04	0%	0
165.99	Acid Soluble Boron , Other (0.025%)	0095	0.0238	0.0011	0.0234	0.0031	0.0013	19	0.11	1%	0
165.99	Acid Soluble Boron , Other (0.025%)	0483	0.0238	0.0040	0.0234	0.0031	0.0013	19	0.12	1%	0
165.99	Acid Soluble Boron , Other (0.025%)	0086	0.0240	0.0009	0.0234	0.0031	0.0013	19	0.17	1%	0
165.99	Acid Soluble Boron , Other (0.025%)	0220	0.0245	0.0010	0.0234	0.0031	0.0013	19	0.35	2%	0
165.99	Acid Soluble Boron , Other (0.025%)	0486	0.0245	0.0010	0.0234	0.0031	0.0013	19	0.35	2%	0
165.99	Acid Soluble Boron , Other (0.025%)	0231	0.0255	0.0030	0.0234	0.0031	0.0013	19	0.67	4%	0
165.99	Acid Soluble Boron , Other (0.025%)	0500	0.0260	0.0000	0.0234	0.0031	0.0013	19	0.83	6%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
165.99	Acid Soluble Boron , Other (0.025%)	0482	0.0260	0.0040	0.0234	0.0031	0.0013	19	0.83	6%	0
165.99	Acid Soluble Boron , Other (0.025%)	0524	0.0294	0.0001	0.0234	0.0031	0.0013	19	1.92	13%	0
165.99	Acid Soluble Boron , Other (0.025%)	0521	0.0458	0.0013	0.0234	0.0031	0.0013	19	7.23	48%	0
165.99	Acid Soluble Boron , Other (0.025%)	0117	0.0196	0.0131	0.0234	0.0031	0.0013	19	-1.25	8%	1
171.99	Water Soluble Boron , Other (%)	0444	0.0265	0.0030	0.0287	0.0019	0.0013	3	-1.14	4%	0
171.99	Water Soluble Boron , Other (%)	0027	0.0295	0.0010	0.0287	0.0019	0.0013	3	0.44	1%	0
171.99	Water Soluble Boron , Other (%)	0402	0.0300	0.0000	0.0287	0.0019	0.0013	3	0.70	2%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0519	0.0100	0.0000	0.0354	0.0337	0.0062	4	-0.75	36%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0523	0.0135	0.0010	0.0354	0.0337	0.0062	4	-0.65	31%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0394	0.0350	0.0020	0.0354	0.0337	0.0062	4	-0.01	1%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0524	0.0832	0.0218	0.0354	0.0337	0.0062	4	1.42	67%	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0515	1.624	0.6300				1			0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0515	0.0000	0.0000				0			4
181.99	Acid Soluble Cadmium , Other (ppm)	0220	0.0900	0.0200				1			0
191.30	Acid Soluble Chromium , ICP (ppm)	0519	0.4950	0.0300	1.057	0.8186	0.0554	5	-0.69	27%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0102	0.5595	0.0070	1.057	0.8186	0.0554	5	-0.61	24%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0444	0.7100	0.0600	1.057	0.8186	0.0554	5	-0.42	16%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0389	1.050	0.1000	1.057	0.8186	0.0554	5	-0.01	0%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0035	2.470	0.0800	1.057	0.8186	0.0554	5	1.73	67%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0086	0.4927	0.0435				2			0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0515	1.057	0.5380				2			0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0515	0.7199	0.8462				1			0
191.99	Acid Soluble Chromium , Other (ppm)	0220	2.350	0.5000				1			0
202.30	Acid Soluble Cobalt , ICP (ppm)	0096	6.850	0.2400	14.03	5.340	0.2530	8	-1.27	26%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0523	9.875	0.4500	14.03	5.340	0.2530	8	-0.73	15%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0035	12.40	0.8000	14.03	5.340	0.2530	8	-0.29	6%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0482	12.45	0.1000	14.03	5.340	0.2530	8	-0.28	6%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0389	15.30	0.2000	14.03	5.340	0.2530	8	0.22	5%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0102	15.83	0.1910	14.03	5.340	0.2530	8	0.32	6%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0524	17.52	0.0327	14.03	5.340	0.2530	8	0.62	12%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0520	35.39	0.0100	14.03	5.340	0.2530	8	3.77	76%	0
202.32	Acid Soluble Cobalt , ICP, 2006.03 (ppm)	0423	15.50	0.2000				1			0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0117	14.24	9.142	15.97	1.861	2.773	4	-0.93	5%	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0037	15.28	0.0920	15.97	1.861	2.773	4	-0.37	2%	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0515	15.76	1.348	15.97	1.861	2.773	4	-0.11	1%	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0086	18.59	0.5100	15.97	1.861	2.773	4	1.41	8%	0
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0515	14.58	0.1460				2			0
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0230	15.30	2.800				2			0
202.99	Acid Soluble Cobalt , Other (ppm)	0220	16.40	0.2000				1			0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0... (0.0125%)	0500	0.0108	0.0004	0.0130	0.0014	0.0004	5	-1.40	8%	0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0... (0.0125%)	0457	0.0128	0.0004	0.0130	0.0014	0.0004	5	-0.12	1%	0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0... (0.0125%)	0043	0.0129	0.0001	0.0130	0.0014	0.0004	5	-0.09	1%	0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0... (0.0125%)	0481	0.0140	0.0000	0.0130	0.0014	0.0004	5	0.65	4%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0... (0.0125%)	0498	0.0145	0.0010	0.0130	0.0014	0.0004	5	0.97	6%	0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0... (0.0125%)	0105	0.0119	0.0044	0.0130	0.0014	0.0004	5	-0.70	4%	1
221.03	Acid Soluble Copper , AA, 965.09, test portio... (0.0125%)	0397	0.0087	0.0000	0.0106	0.0017	0.0013	3	-1.10	9%	0
221.03	Acid Soluble Copper , AA, 965.09, test portio... (0.0125%)	0023	0.0110	0.0000	0.0106	0.0017	0.0013	3	0.26	2%	0
221.03	Acid Soluble Copper , AA, 965.09, test portio... (0.0125%)	0105	0.0120	0.0040	0.0106	0.0017	0.0013	3	0.85	7%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0324	0.00265*	0.0005	0.0114	0.0024	0.0008	22	-3.68	38%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0096	0.00345*	0.0001	0.0114	0.0024	0.0008	22	-3.34	35%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0354	0.0080	0.0000	0.0114	0.0024	0.0008	22	-1.43	15%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0291	0.0100	0.0000	0.0114	0.0024	0.0008	22	-0.59	6%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0472	0.0100	0.0000	0.0114	0.0024	0.0008	22	-0.59	6%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0519	0.0100	0.0000	0.0114	0.0024	0.0008	22	-0.59	6%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0035	0.0104	0.0003	0.0114	0.0024	0.0008	22	-0.44	5%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0090	0.0105	0.0010	0.0114	0.0024	0.0008	22	-0.38	4%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0230	0.0108	0.0004	0.0114	0.0024	0.0008	22	-0.25	3%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0433	0.0111	0.0002	0.0114	0.0024	0.0008	22	-0.13	1%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0233	0.0112	0.0042	0.0114	0.0024	0.0008	22	-0.08	1%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0390	0.0115	0.0007	0.0114	0.0024	0.0008	22	0.02	0%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0483	0.0115	0.0026	0.0114	0.0024	0.0008	22	0.04	0%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0055	0.0117	0.0008	0.0114	0.0024	0.0008	22	0.13	1%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0234	0.0120	0.0020	0.0114	0.0024	0.0008	22	0.25	3%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0095	0.0122	0.0012	0.0114	0.0024	0.0008	22	0.34	4%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0102	0.0130	0.0000	0.0114	0.0024	0.0008	22	0.67	7%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0482	0.0130	0.0000	0.0114	0.0024	0.0008	22	0.67	7%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0231	0.0140	0.0020	0.0114	0.0024	0.0008	22	1.09	11%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0049	0.0144	0.0006	0.0114	0.0024	0.0008	22	1.26	13%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0444	0.0155	0.0010	0.0114	0.0024	0.0008	22	1.72	18%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0520	0.0224	0.0002	0.0114	0.0024	0.0008	22	4.62	48%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.0125%)	0402	0.0150	0.0100	0.0114	0.0024	0.0008	22	1.51	16%	1
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.0125%)	0521	0.0124	0.0006	0.0134	0.0011	0.0003	3	-0.89	4%	0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.0125%)	0394	0.0132	0.0003	0.0134	0.0011	0.0003	3	-0.20	1%	0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.0125%)	0423	0.0146	0.0001	0.0134	0.0011	0.0003	3	1.08	4%	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.0125%)	0117	0.0112	0.0099	0.0361	0.0544	0.0037	5	-0.46	35%	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.0125%)	0037	0.0114	0.0001	0.0361	0.0544	0.0037	5	-0.45	34%	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.0125%)	0515	0.0117	0.0004	0.0361	0.0544	0.0037	5	-0.45	34%	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.0125%)	0486	0.0128	0.0001	0.0361	0.0544	0.0037	5	-0.43	32%	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.0125%)	0086	0.1334	0.0081	0.0361	0.0544	0.0037	5	1.79	135%	0
221.99	Acid Soluble Copper , Other (0.0125%)	0506	0.0100	0.0000	0.0127	0.0023	0.0007	7	-1.09	11%	0
221.99	Acid Soluble Copper , Other (0.0125%)	0515	0.0116	0.0009	0.0127	0.0023	0.0007	7	-0.46	4%	0
221.99	Acid Soluble Copper , Other (0.0125%)	0523	0.0120	0.0020	0.0127	0.0023	0.0007	7	-0.27	3%	0
221.99	Acid Soluble Copper , Other (0.0125%)	0389	0.0122	0.0007	0.0127	0.0023	0.0007	7	-0.21	2%	0
221.99	Acid Soluble Copper , Other (0.0125%)	0220	0.0123	0.0002	0.0127	0.0023	0.0007	7	-0.15	1%	0
221.99	Acid Soluble Copper , Other (0.0125%)	0524	0.0147	0.0009	0.0127	0.0023	0.0007	7	0.81	8%	0
221.99	Acid Soluble Copper , Other (0.0125%)	0027	0.0160	0.0000	0.0127	0.0023	0.0007	7	1.37	13%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
241.00	Acid Soluble Iron, AA, inorganic 965.09 (0.125%)	0481	0.1050	0.0100	0.1184	0.0122	0.0142	5	-1.09	6%	0
241.00	Acid Soluble Iron, AA, inorganic 965.09 (0.125%)	0105	0.1085	0.0270	0.1184	0.0122	0.0142	5	-0.81	4%	0
241.00	Acid Soluble Iron, AA, inorganic 965.09 (0.125%)	0043	0.1165	0.0130	0.1184	0.0122	0.0142	5	-0.16	1%	0
241.00	Acid Soluble Iron, AA, inorganic 965.09 (0.125%)	0500	0.1310	0.0020	0.1184	0.0122	0.0142	5	1.03	5%	0
241.00	Acid Soluble Iron, AA, inorganic 965.09 (0.125%)	0457	0.1311	0.0191	0.1184	0.0122	0.0142	5	1.03	5%	0
241.03	Acid Soluble Iron, AA, 965.09, test portion 2... (0.125%)	0105	0.1100	0.0340				1			0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0324	0.00260*	0.0002	0.1076	0.0307	0.0049	22	-3.42	49%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0519	0.01500*	0.0100	0.1076	0.0307	0.0049	22	-3.01	43%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0096	0.03500*	0.0100	0.1076	0.0307	0.0049	22	-2.36	34%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0354	0.07000*	0.0040	0.1076	0.0307	0.0049	22	-1.22	17%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0483	0.07225*	0.0155	0.1076	0.0307	0.0049	22	-1.15	16%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0433	0.0983	0.0010	0.1076	0.0307	0.0049	22	-0.30	4%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0035	0.1025	0.0070	0.1076	0.0307	0.0049	22	-0.17	2%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0230	0.1060	0.0000	0.1076	0.0307	0.0049	22	-0.05	1%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0390	0.1085	0.0050	0.1076	0.0307	0.0049	22	0.03	0%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0090	0.1095	0.0030	0.1076	0.0307	0.0049	22	0.06	1%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0095	0.1114	0.0010	0.1076	0.0307	0.0049	22	0.12	2%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0102	0.1140	0.0080	0.1076	0.0307	0.0049	22	0.21	3%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0055	0.1175	0.0049	0.1076	0.0307	0.0049	22	0.32	5%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0291	0.1200	0.0000	0.1076	0.0307	0.0049	22	0.40	6%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0482	0.1200	0.0000	0.1076	0.0307	0.0049	22	0.40	6%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0444	0.1220	0.0040	0.1076	0.0307	0.0049	22	0.47	7%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0231	0.1235	0.0010	0.1076	0.0307	0.0049	22	0.52	7%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0234	0.1240	0.0020	0.1076	0.0307	0.0049	22	0.53	8%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0472	0.1250	0.0300	0.1076	0.0307	0.0049	22	0.57	8%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0049	0.1304	0.0002	0.1076	0.0307	0.0049	22	0.74	11%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0402	0.1600	0.0000	0.1076	0.0307	0.0049	22	1.71	24%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0520	0.1884	0.0004	0.1076	0.0307	0.0049	22	2.63	38%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (0.125%)	0233	0.1008	0.0441	0.1076	0.0307	0.0049	22	-0.22	3%	1
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (0.125%)	0521	0.09395*	0.0029	0.1098	0.0137	0.0045	3	-1.15	7%	0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (0.125%)	0423	0.1175	0.0010	0.1098	0.0137	0.0045	3	0.56	4%	0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (0.125%)	0394	0.1179	0.0095	0.1098	0.0137	0.0045	3	0.59	4%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (0.125%)	0397	0.08315*	0.0001	0.1041	0.0194	0.0046	6	-1.00	10%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (0.125%)	0023	0.09200*	0.0040	0.1041	0.0194	0.0046	6	-0.58	6%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (0.125%)	0177	0.1018	0.0027	0.1041	0.0194	0.0046	6	-0.11	1%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (0.125%)	0037	0.1068	0.0007	0.1041	0.0194	0.0046	6	0.13	1%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (0.125%)	0515	0.1080	0.0191	0.1041	0.0194	0.0046	6	0.18	2%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (0.125%)	0486	0.1385	0.0010	0.1041	0.0194	0.0046	6	1.64	17%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (0.125%)	0117	0.1047	0.0805	0.1041	0.0194	0.0046	6	0.02	0%	1
241.99	Acid Soluble Iron, Other (0.125%)	0506	0.07500*	0.0100	0.1239	0.0274	0.0064	7	-1.67	20%	0
241.99	Acid Soluble Iron, Other (0.125%)	0515	0.1129	0.0088	0.1239	0.0274	0.0064	7	-0.37	4%	0
241.99	Acid Soluble Iron, Other (0.125%)	0523	0.1135	0.0050	0.1239	0.0274	0.0064	7	-0.35	4%	0
241.99	Acid Soluble Iron, Other (0.125%)	0220	0.1200	0.0000	0.1239	0.0274	0.0064	7	-0.13	2%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
241.99	Acid Soluble Iron, Other (0.125%)	0524	0.1380	0.0030	0.1239	0.0274	0.0064	7	0.48	6%	0
241.99	Acid Soluble Iron, Other (0.125%)	0027	0.1480	0.0140	0.1239	0.0274	0.0064	7	0.82	10%	0
241.99	Acid Soluble Iron, Other (0.125%)	0389	0.1520	0.0040	0.1239	0.0274	0.0064	7	0.96	11%	0
251.30	Acid Soluble Lead , ICP (ppm)	0519	0.2000	0.0200	0.2340	0.0538	0.0282	3	-0.63	7%	0
251.30	Acid Soluble Lead , ICP (ppm)	0394	0.2060	0.0420	0.2340	0.0538	0.0282	3	-0.52	6%	0
251.30	Acid Soluble Lead , ICP (ppm)	0524	0.2961	0.0226	0.2340	0.0538	0.0282	3	1.15	13%	0
251.30	Acid Soluble Lead , ICP (ppm)	0211	0.0000	0.0000	0.2340	0.0538	0.0282	3			4
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0515	0.7787	0.5247				1			0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0515	0.0000	0.0000				0			4
251.99	Acid Soluble Lead , Other (ppm)	0220	0.0100	0.0000				1			0
261.11	Acid Soluble Manganese , AA, total Mn (0.063%)	0498	0.0735	0.0050				1			0
261.12	Acid Soluble Manganese , AA, inorganic 965.09... (0.063%)	0105	0.0520	0.0160	0.0594	0.0064	0.0066	3	-1.15	6%	0
261.12	Acid Soluble Manganese , AA, inorganic 965.09... (0.063%)	0500	0.0630	0.0000	0.0594	0.0064	0.0066	3	0.57	3%	0
261.12	Acid Soluble Manganese , AA, inorganic 965.09... (0.063%)	0457	0.0631	0.0039	0.0594	0.0064	0.0066	3	0.58	3%	0
261.15	Acid Soluble Manganese , AA, 965.09, test por... (0.063%)	0105	0.0535	0.0170				1			0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0420	0.01145*	0.0003	0.0426	0.0173	0.0021	10	-1.71	37%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0096	0.01665*	0.0001	0.0426	0.0173	0.0021	10	-1.43	30%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0354	0.03200*	0.0000	0.0426	0.0173	0.0021	10	-0.58	12%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0035	0.0441	0.0019	0.0426	0.0173	0.0021	10	0.08	2%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0291	0.0500	0.0000	0.0426	0.0173	0.0021	10	0.41	9%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0433	0.0509	0.0003	0.0426	0.0173	0.0021	10	0.46	10%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0090	0.0530	0.0020	0.0426	0.0173	0.0021	10	0.57	12%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0390	0.0536	0.0044	0.0426	0.0173	0.0021	10	0.61	13%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0102	0.0540	0.0020	0.0426	0.0173	0.0021	10	0.63	13%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0472	0.0550	0.0100	0.0426	0.0173	0.0021	10	0.68	15%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0233	0.1610	0.2101	0.0426	0.0173	0.0021	10	6.52	139%	1
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0324	0.00120*	0.0000	0.0408	0.0228	0.0015	5	-1.73	49%	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0072	0.0450	0.0000	0.0408	0.0228	0.0015	5	0.18	5%	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0230	0.0483	0.0046	0.0408	0.0228	0.0015	5	0.33	9%	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0234	0.0495	0.0030	0.0408	0.0228	0.0015	5	0.38	11%	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.063%)	0482	0.0600	0.0000	0.0408	0.0228	0.0015	5	0.84	24%	0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.063%)	0483	0.04200*	0.0032	0.0546	0.0091	0.0039	6	-1.28	12%	0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.063%)	0055	0.0490	0.0032	0.0546	0.0091	0.0039	6	-0.57	5%	0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.063%)	0519	0.0555	0.0030	0.0546	0.0091	0.0039	6	0.09	1%	0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.063%)	0231	0.0580	0.0040	0.0546	0.0091	0.0039	6	0.35	3%	0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.063%)	0444	0.0580	0.0000	0.0546	0.0091	0.0039	6	0.35	3%	0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.063%)	0402	0.0650	0.0100	0.0546	0.0091	0.0039	6	1.06	10%	0
261.33	Acid Soluble Manganese , ICP, test portion or... (0.063%)	0086	0.0631	0.0006				1			0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.063%)	0520	0.01120*	0.0002	0.0470	0.0241	0.0010	4	-1.49	38%	0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.063%)	0394	0.0545	0.0010	0.0470	0.0241	0.0010	4	0.31	8%	0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.063%)	0423	0.0605	0.0010	0.0470	0.0241	0.0010	4	0.56	14%	0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.063%)	0521	0.0619	0.0018	0.0470	0.0241	0.0010	4	0.62	16%	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.063%)	0397	0.04095*	0.0001	0.0509	0.0049	0.0094	6	-1.87	10%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.063%)	0117	0.0494	0.0376	0.0509	0.0049	0.0094	6	-0.28	1%	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.063%)	0515	0.0512	0.0173	0.0509	0.0049	0.0094	6	0.04	0%	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.063%)	0023	0.0515	0.0010	0.0509	0.0049	0.0094	6	0.11	1%	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.063%)	0037	0.0516	0.0002	0.0509	0.0049	0.0094	6	0.13	1%	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.063%)	0486	0.0620	0.0000	0.0509	0.0049	0.0094	6	2.09	11%	0
261.99	Acid Soluble Manganese , Other (0.063%)	0506	0.03000*	0.0000	0.0569	0.0101	0.0023	9	-2.53	24%	0
261.99	Acid Soluble Manganese , Other (0.063%)	0220	0.0525	0.0010	0.0569	0.0101	0.0023	9	-0.42	4%	0
261.99	Acid Soluble Manganese , Other (0.063%)	0095	0.0530	0.0031	0.0569	0.0101	0.0023	9	-0.37	3%	0
261.99	Acid Soluble Manganese , Other (0.063%)	0515	0.0530	0.0011	0.0569	0.0101	0.0023	9	-0.37	3%	0
261.99	Acid Soluble Manganese , Other (0.063%)	0523	0.0535	0.0030	0.0569	0.0101	0.0023	9	-0.32	3%	0
261.99	Acid Soluble Manganese , Other (0.063%)	0481	0.0575	0.0010	0.0569	0.0101	0.0023	9	0.06	1%	0
261.99	Acid Soluble Manganese , Other (0.063%)	0027	0.0630	0.0060	0.0569	0.0101	0.0023	9	0.57	5%	0
261.99	Acid Soluble Manganese , Other (0.063%)	0524	0.0660	0.0014	0.0569	0.0101	0.0023	9	0.86	8%	0
261.99	Acid Soluble Manganese , Other (0.063%)	0389	0.0720	0.0039	0.0569	0.0101	0.0023	9	1.41	13%	0
271.30	Water Soluble Manganese , ICP, Ext. 972.03 (%)	0211	0.0490	0.0020				2			0
271.30	Water Soluble Manganese , ICP, Ext. 972.03 (%)	0444	0.0615	0.0030				2			0
271.99	Water Soluble Manganese , Other (%)	0027	0.0685	0.0030				1			0
281.30	Acid Soluble Mercury , ICP (ppm)	0394	0.0026	0.0001				2			0
281.30	Acid Soluble Mercury , ICP (ppm)	0519	0.0100	0.0000				2			0
281.30	Acid Soluble Mercury , ICP (ppm)	0515	0.0000	0.0000				2			4
289.00	Acid Soluble Molybdenum , AA, test portion in... (125ppm)	0500	110.0	0.0000				1			0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0096	34.00*	0.2000	106.8	28.10	3.659	15	-2.59	34%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0035	76.95	0.1000	106.8	28.10	3.659	15	-1.06	14%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0397	83.13	2.900	106.8	28.10	3.659	15	-0.84	11%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0433	84.02	0.3178	106.8	28.10	3.659	15	-0.81	11%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0521	87.24	1.309	106.8	28.10	3.659	15	-0.70	9%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0234	93.00	10.00	106.8	28.10	3.659	15	-0.49	6%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0095	106.0	4.000	106.8	28.10	3.659	15	-0.03	0%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0102	109.8	4.280	106.8	28.10	3.659	15	0.11	1%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0523	112.2	1.300	106.8	28.10	3.659	15	0.19	3%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0519	115.0	2.000	106.8	28.10	3.659	15	0.29	4%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0027	124.6	4.376	106.8	28.10	3.659	15	0.63	8%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0444	125.0	10.00	106.8	28.10	3.659	15	0.65	9%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0049	130.0	4.030	106.8	28.10	3.659	15	0.83	11%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0524	141.5	10.06	106.8	28.10	3.659	15	1.23	16%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0520	184.7	0.0100	106.8	28.10	3.659	15	2.77	36%	0
289.30	Acid Soluble Molybdenum , ICP (125ppm)	0233	93.55	41.90	106.8	28.10	3.659	15	-0.47	6%	1
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (125ppm)	0394	0.01185*	0.0005				1			0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (125ppm)	0037	106.4	0.8600	112.2	5.921	5.997	5	-0.91	3%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (125ppm)	0515	108.1	12.69	112.2	5.921	5.997	5	-0.64	2%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (125ppm)	0423	111.7	3.220	112.2	5.921	5.997	5	-0.08	0%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (125ppm)	0486	113.5	1.000	112.2	5.921	5.997	5	0.19	1%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (125ppm)	0086	121.5	12.22	112.2	5.921	5.997	5	1.43	4%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (125ppm)	0117	94.77	91.47	112.2	5.921	5.997	5	-2.69	8%	1
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (125ppm)	0515	106.3	10.07				1			0
289.99	Acid Soluble Molybdenum , Other (125ppm)	0220	113.0	6.000				2			0
289.99	Acid Soluble Molybdenum , Other (125ppm)	0481	187.8	10.80				2			0
291.30	Acid Soluble Nickel , ICP (ppm)	0394	0.1350	0.0800	0.2909	0.1473	0.0421	3	-1.06	27%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0519	0.3100	0.0200	0.2909	0.1473	0.0421	3	0.13	3%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0524	0.4277	0.0262	0.2909	0.1473	0.0421	3	0.93	24%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0521	0.0000	0.0000	0.2909	0.1473	0.0421	3			4
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0086	0.3427	0.0056				2			0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0515	0.3497	0.5120				2			0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0515	0.1802	0.3604				0			4
291.99	Acid Soluble Nickel , Other (ppm)	0220	0.5500	0.7000				1			0
301.30	Acid Soluble Selenium , ICP (ppm)	0394	0.0497	0.0000				2			0
301.30	Acid Soluble Selenium , ICP (ppm)	0519	0.3600	0.0400				2			0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0515	0.5294	0.4540				1			0
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0515	0.7694	0.7272				1			0
311.32	Sodium, ICP, 2006.03 test portion (%)	0521	0.1784	0.0065				1			0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0035	0.1465	0.0090	0.1935	0.0335	0.0050	4	-1.40	12%	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0102	0.1940	0.0020	0.1935	0.0335	0.0050	4	0.02	0%	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0423	0.2105	0.0010	0.1935	0.0335	0.0050	4	0.51	4%	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0086	0.2230	0.0081	0.1935	0.0335	0.0050	4	0.88	8%	0
311.99	Sodium, Other (%)	0096	0.0700	0.0000	0.1469	0.0682	0.0011	3	-1.13	26%	0
311.99	Sodium, Other (%)	0354	0.1707	0.0034	0.1469	0.0682	0.0011	3	0.35	8%	0
311.99	Sodium, Other (%)	0482	0.2000	0.0000	0.1469	0.0682	0.0011	3	0.78	18%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.063%)	0428	0.04110*	0.0070	0.0574	0.0100	0.0050	7	-1.52	14%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.063%)	0105	0.0530	0.0180	0.0574	0.0100	0.0050	7	-0.41	4%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.063%)	0481	0.0550	0.0000	0.0574	0.0100	0.0050	7	-0.22	2%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.063%)	0500	0.0557	0.0000	0.0574	0.0100	0.0050	7	-0.16	1%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.063%)	0043	0.0620	0.0020	0.0574	0.0100	0.0050	7	0.43	4%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.063%)	0457	0.0643	0.0032	0.0574	0.0100	0.0050	7	0.64	6%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.063%)	0498	0.0695	0.0050	0.0574	0.0100	0.0050	7	1.13	11%	0
321.03	Acid Soluble Zinc , AA, 965.09, test portion ... (0.063%)	0105	0.0530	0.0160				1			0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0324	0.00140*	0.0000	0.0526	0.0119	0.0016	21	-4.29	49%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0096	0.01925*	0.0001	0.0526	0.0119	0.0016	21	-2.80	32%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0420	0.03130*	0.0006	0.0526	0.0119	0.0016	21	-1.79	20%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0354	0.03400*	0.0000	0.0526	0.0119	0.0016	21	-1.56	18%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0035	0.04515*	0.0011	0.0526	0.0119	0.0016	21	-0.62	7%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0483	0.0495	0.0021	0.0526	0.0119	0.0016	21	-0.26	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0072	0.0500	0.0000	0.0526	0.0119	0.0016	21	-0.22	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0433	0.0526	0.0001	0.0526	0.0119	0.0016	21	0.00	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0230	0.0526	0.0050	0.0526	0.0119	0.0016	21	0.00	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0055	0.0536	0.0011	0.0526	0.0119	0.0016	21	0.08	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0090	0.0540	0.0020	0.0526	0.0119	0.0016	21	0.12	1%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0390	0.0555	0.0006	0.0526	0.0119	0.0016	21	0.25	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0102	0.0560	0.0000	0.0526	0.0119	0.0016	21	0.29	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0095	0.0577	0.0028	0.0526	0.0119	0.0016	21	0.43	5%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0519	0.0585	0.0010	0.0526	0.0119	0.0016	21	0.50	6%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0234	0.0600	0.0060	0.0526	0.0119	0.0016	21	0.62	7%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0482	0.0600	0.0000	0.0526	0.0119	0.0016	21	0.62	7%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0049	0.0629	0.0044	0.0526	0.0119	0.0016	21	0.87	10%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0231	0.0635	0.0050	0.0526	0.0119	0.0016	21	0.92	10%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0444	0.0635	0.0010	0.0526	0.0119	0.0016	21	0.92	10%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0520	0.1011	0.0001	0.0526	0.0119	0.0016	21	4.07	46%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0233	0.0491	0.0233	0.0526	0.0119	0.0016	21	-0.30	3%	1
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.063%)	0472	0.0550	0.0300	0.0526	0.0119	0.0016	21	0.20	2%	1
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.063%)	0394	0.0590	0.0000	0.0651	0.0063	0.0013	3	-0.97	5%	0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.063%)	0521	0.0647	0.0029	0.0651	0.0063	0.0013	3	-0.06	0%	0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.063%)	0423	0.0715	0.0010	0.0651	0.0063	0.0013	3	1.03	5%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.063%)	0397	0.04460*	0.0002	0.0639	0.0142	0.0053	6	-1.25	15%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.063%)	0037	0.0555	0.0024	0.0639	0.0142	0.0053	6	-0.54	7%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.063%)	0023	0.0605	0.0150	0.0639	0.0142	0.0053	6	-0.22	3%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.063%)	0515	0.0718	0.0121	0.0639	0.0142	0.0053	6	0.51	6%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.063%)	0486	0.0735	0.0010	0.0639	0.0142	0.0053	6	0.63	8%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.063%)	0086	0.0773	0.0013	0.0639	0.0142	0.0053	6	0.87	10%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.063%)	0117	0.0511	0.0407	0.0639	0.0142	0.0053	6	-0.83	10%	1
321.99	Acid Soluble Zinc , Other (0.063%)	0506	0.03000*	0.0000	0.0623	0.0129	0.0026	7	-2.34	26%	0
321.99	Acid Soluble Zinc , Other (0.063%)	0523	0.0570	0.0040	0.0623	0.0129	0.0026	7	-0.38	4%	0
321.99	Acid Soluble Zinc , Other (0.063%)	0220	0.0570	0.0020	0.0623	0.0129	0.0026	7	-0.38	4%	0
321.99	Acid Soluble Zinc , Other (0.063%)	0027	0.0630	0.0020	0.0623	0.0129	0.0026	7	0.05	1%	0
321.99	Acid Soluble Zinc , Other (0.063%)	0515	0.0661	0.0059	0.0623	0.0129	0.0026	7	0.27	3%	0
321.99	Acid Soluble Zinc , Other (0.063%)	0524	0.0725	0.0020	0.0623	0.0129	0.0026	7	0.74	8%	0
321.99	Acid Soluble Zinc , Other (0.063%)	0389	0.0774	0.0023	0.0623	0.0129	0.0026	7	1.09	12%	0
325.00	Water Soluble Zinc , AA (%)	0027	0.0685	0.0010				1			0
325.30	Water Soluble Zinc , ICP (%)	0211	0.0560	0.0040	0.0774	0.0231	0.0143	4	-0.92	14%	0
325.30	Water Soluble Zinc , ICP (%)	0444	0.0685	0.0030	0.0774	0.0231	0.0143	4	-0.38	6%	0
325.30	Water Soluble Zinc , ICP (%)	0402	0.0750	0.0100	0.0774	0.0231	0.0143	4	-0.10	2%	0
325.30	Water Soluble Zinc , ICP (%)	0406	0.1100	0.0400	0.0774	0.0231	0.0143	4	1.41	21%	0

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 extreme outlier and a 4 flag indicates rejected due to 0 value submitted. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are included for information only (Grey). An offset lab value with an astrix indicates that the value is lower than the Analyte value less the IA. Method or Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for the purpose of this Proficiency Testing program.