

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Methods: 124

Sample # 150611

Statistical Summary

Labs Reporting: 89

micros

Issue Date : 07/31/2015

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 (%)	13	13	11.59	0.5015	11.60		0.5470	0.1073	4.72%		0.1384	2.77%
001.99	Ammoniacal Nitrogen, Other (%)	16	15	11.78	0.4749	11.96		0.1425	0.0260	1.19%		0.0394	2.75%
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	3	3	12.06	0.2052	12.06		0.2052	0.0838	1.70%		0.2367	2.75%
010.11	Total Nitrogen, Modified Comprehensive (12%)	7	7	11.90	0.1364	11.90	0.6092	0.1291	0.0345	1.09%	2.56%	0.0271	2.76%
010.12	Total Nitrogen, Salicylic (12%)	3	3	12.08	0.0318	12.08	0.6092	0.0318	0.0130	0.26%	2.52%	0.0900	2.75%
010.17	Total Nitrogen, Comprehensive (12%)	1		12.39									
010.60	Total Nitrogen, Combustion (12%)	58	57	11.97	0.2851	11.95	0.6092	0.1910	0.0179	1.60%	2.55%	0.1046	2.75%
010.99	Total Nitrogen, Other (12%)	3	3	11.76	0.1575	11.76	0.6092	0.1574	0.0643	1.34%	2.59%	0.5351	2.76%
020.10	Total Phosphorus as P2O5, Gravimetric Quinolinium ... (%)	7	7	35.31	15.57	41.19		0.3354	0.0896	0.81%		0.0957	2.29%
020.20	Total Phosphorus as P2O5, Spectrophotometric Molyb... (%)	23	22	40.70	0.5515	40.69		0.3519	0.0530	0.86%		0.2729	2.29%
020.40	Total Phosphorus as P2O5, Automated (%)	6	5	40.66	0.2190	40.66		0.2190	0.0693	0.54%		0.5240	2.29%
020.50	Total Phosphorus as P2O5, ICP (%)	13	13	40.86	0.9861	40.87		1.090	0.2138	2.67%		0.5480	2.29%
020.99	Total Phosphorus as P2O5, Other (%)	2	2	40.23	0.5303								
030.20	Citrate Insoluble Phosphorus as P2O5, Spectrophoto... (%)	2	2	0.2013	0.2740								
040.20	Indirect Available Phosphorus as P2O5, Spectrophot... (40%)	2	2	40.81	0.4190								
040.40	Indirect Available Phosphorus as P2O5, Automated (40%)	1		40.68									
040.50	Indirect Available Phosphorus as P2O5, ICP (40%)	1		40.78									
041.10	Direct Available Phosphorus as P2O5, Gravimetric Q... (40%)	8	8	40.27	0.4995	40.30	0.9005	0.5089	0.1272	1.26%	1.12%	0.0932	2.29%
041.11	Direct Available Phosphorus as P2O5, Gravimetric Q... (40%)	4	4	39.96	0.4753	39.96	0.9005	0.4753	0.1680	1.19%	1.13%	0.1750	2.30%
041.21	Direct Available Phosphorus as P2O5, Spectrophotom... (40%)	2	2	40.28	0.9228								
041.40	Direct Available Phosphorus as P2O5, Automated (40%)	2	2	40.10	0.5622								
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	6	6	39.35	0.8456	39.35	0.9005	0.9589	0.2768	2.44%	1.14%	0.8217	2.30%
041.51	Direct Available Phosphorus as P2O5, ICP, Citrate-... (40%)	4	4	39.42	1.680	39.42	0.9005	1.680	0.5938	4.26%	1.14%	0.4725	2.30%
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA ... (40%)	12	11	39.84	0.8166	39.94	0.9005	0.6770	0.1443	1.70%	1.13%	0.2664	2.30%
041.99	Direct Available Phosphorus as P2O5, Other (40%)	3	3	40.76	0.9569	40.76	0.9005	0.9569	0.3906	2.35%	1.10%	0.8133	2.29%
048.20	Water Soluble Phosphorus as P2O5, Spectrophotometr... (%)	3	3	36.06	0.2869	36.06		0.2869	0.1171	0.80%		0.2000	2.33%
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	1		35.67									
050.10	Soluble Potassium as K2O, STPB Citrate (%)	1		40.12									
050.31	Soluble Potassium as K2O, AA (Citrate) (%)	1		0.0600									
050.50	Soluble Potassium as K2O, ICP (Oxalate) (%)	3	2	0.1125	0.0743	0.1125	0.4100	0.0742	0.0371	66.00%	182.22%	0.0100	5.56%
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	4	4	0.2145	0.0831	0.2145	0.4100	0.0831	0.0294	38.76%	95.57%	0.0265	5.04%

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
050.60	Soluble Potassium as K2O, Flame Photometric (Oxala... (%)	2	2	18.89	26.24								
050.62	Soluble Potassium as K2O, Flame Photometric (Citra... (%)	2	1	0.2300									
050.99	Soluble Potassium as K2O, Other (%)	6	6	0.1850	0.1101	0.1256	0.4100	0.0127	0.0037	10.10%	163.27%	0.0200	5.47%
060.00	Water (Free), Vacuum Oven (%)	3	3	0.8533	0.1680	0.8533		0.1680	0.0686	19.69%		0.0600	4.10%
060.20	Water (Free), Karl Fischer (%)	1		0.6000									
060.99	Water (Free), Other (%)	1		1.235									
101.00	Acid Soluble Calcium, AA, inorganic 965.09 (%)	1		0.2000									
101.30	Acid Soluble Calcium, ICP, test portion inorganic ... (%)	10	9	0.2066	0.0610	0.2174		0.0262	0.0062	12.03%		0.0268	5.03%
101.32	Acid Soluble Calcium, ICP, test portion 2006.03A-C (%)	1		0.1855									
101.33	Acid Soluble Calcium, ICP, test portion 2006.03A-C... (%)	1		0.2800									
101.99	Acid Soluble Calcium, Other (%)	1		0.2125									
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (0.35%)	12	12	0.4727	0.0404	0.4692	0.2243	0.0246	0.0050	5.25%	23.90%	0.0162	4.48%
121.30	Acid Soluble Magnesium, ICP, test portion inorgani... (0.35%)	25	25	0.4950	0.0305	0.4951	0.2243	0.0272	0.0038	5.49%	22.65%	0.0118	4.45%
121.32	Acid Soluble Magnesium, ICP, test portion 2006.03A... (0.35%)	1		0.4715									
121.33	Acid Soluble Magnesium, ICP, test portion 2006.03A... (0.35%)	4	4	0.4819	0.0383	0.4819	0.2243	0.0383	0.0136	7.96%	23.27%	0.0141	4.46%
121.99	Acid Soluble Magnesium, Other (0.35%)	4	4	0.5340	0.1242	0.5340	0.2243	0.1242	0.0439	23.25%	21.00%	0.0670	4.40%
131.30	Water Soluble Magnesium, ICP (%)	1		0.9750									
131.70	Water Soluble Magnesium, Titrimetric (EDTA) (%)	1		0.2500									
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon disu... (%)	7	7	6.344	2.566	4.979		0.2885	0.0771	5.79%		0.1343	3.14%
143.99	Elemental Sulfur, Other (%)	4	4	9.018	2.464	9.018		2.464	0.8711	27.32%		0.1650	2.87%
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulfur - ... (%)	6	6	5.298	0.1487	5.276		0.1176	0.0339	2.23%		0.0500	3.11%
145.99	Sulfate Sulfur, HCl soluble, Other (%)	3	3	6.438	1.901	6.438		1.901	0.7762	29.53%		0.0300	3.02%
148.00	Total Sulfur, Combustion (10%)	8	8	10.51	0.2317	10.51	0.7010	0.2590	0.0648	2.46%	3.33%	0.2189	2.81%
148.01	Total Sulfur, Gravimetric - sulfate and elemental... (10%)	14	14	9.190	2.065	10.09	0.7010	0.3512	0.0664	3.48%	3.47%	0.1288	2.82%
148.07	Total Sulfur, ICP, test portion as in 2006.03 modi... (10%)	10	10	8.190	2.463	8.665	0.7010	1.987	0.4443	22.93%	4.04%	0.1335	2.89%
148.99	Total Sulfur, Other (10%)	10	10	8.140	2.788	8.140	0.7010	3.161	0.7069	38.84%	4.31%	0.1262	2.92%
149.04	Sulfur - HNO3 soluble, ICP (%)	2	2	9.656	0.8405								
151.00	Acid Soluble Arsenic , AA, test portion as in 200... (ppm)	2	2	9.750	0.4950								
151.30	Acid Soluble Arsenic , ICP (ppm)	8	8	10.26	3.805	9.579		2.985	0.7463	31.16%		0.3987	11.39%
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	1		9.786									
151.99	Acid Soluble Arsenic , Other (ppm)	3	3	10.66	0.6610	10.66		0.6610	0.2698	6.20%		0.3767	11.20%
165.00	Acid Soluble Boron , Spectrophotometric (%)	1		1.044									
165.30	Acid Soluble Boron , ICP, test portion in 982.01 (%)	2	2	0.0195	0.0057								
165.99	Acid Soluble Boron , Other (%)	4	4	0.0084	0.0033	0.0084		0.0033	0.0011	38.81%		0.0003	8.22%
181.00	Acid Soluble Cadmium , AA, test portion as in 200... (ppm)	1		3.750									
181.30	Acid Soluble Cadmium , ICP (ppm)	9	8	3.616	0.4315	3.621		0.4555	0.1139	12.58%		0.0927	13.18%
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	1		3.456									
181.99	Acid Soluble Cadmium , Other (ppm)	3	3	3.290	0.5351	3.290		0.5351	0.2184	16.26%		0.1400	13.37%
190.00	Water Soluble Chlorine, Titrimetric (%)	2	2	0.5703	0.6155								
191.30	Acid Soluble Chromium , ICP (ppm)	9	9	65.79	9.877	67.92		3.360	0.7921	4.95%		1.427	8.48%
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	1		70.74									
191.99	Acid Soluble Chromium , Other (ppm)	4	4	68.28	8.446	68.28		8.446	2.986	12.37%		2.050	8.47%

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202.30	Acid Soluble Cobalt , ICP (ppm)	8	7	2.923	1.337	3.252		0.4129	0.1103	12.70%		0.0886	13.40%
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	1		3.209									
202.99	Acid Soluble Cobalt , Other (ppm)	2	2	5.825	4.419								
221.00	Acid Soluble Copper , AA, inorganic 965.09 (%)	1		0.0007									
221.30	Acid Soluble Copper , ICP, test portion inorganic... (%)	9	5	0.0009	0.0012	0.0009		0.0012	0.0004	136.25%		0.0001	11.51%
221.32	Acid Soluble Copper , ICP, test portion 2006.03A-... (%)	2	2	0.0074	0.0101								
221.33	Acid Soluble Copper , ICP, test portion 2006.03A-... (%)	3	2	0.0003	0.0001	0.0003		0.0001	0.0000	28.28%		0.0000	13.94%
221.99	Acid Soluble Copper , Other (%)	2	1	0.0003									
241.00	Acid Soluble Iron , AA, inorganic 965.09 (0.9%)	10	10	0.9245	0.1032	0.9507	0.1013	0.0381	0.0085	4.01%	5.33%	0.0252	4.03%
241.20	Acid Soluble Iron , Colormetric (0.9%)	1		0.9725									
241.30	Acid Soluble Iron , ICP, test portion inorganic 96... (0.9%)	27	26	0.9782	0.0482	0.9773	0.1013	0.0415	0.0058	4.25%	5.18%	0.0253	4.01%
241.32	Acid Soluble Iron , ICP, test portion 2006.03A-C ... (0.9%)	2	2	0.9435	0.0424								
241.33	Acid Soluble Iron , ICP, test portion 2006.03A-C, ... (0.9%)	4	4	0.9304	0.0321	0.9304	0.1013	0.0321	0.0113	3.45%	5.45%	0.0156	4.04%
241.99	Acid Soluble Iron , Other (0.9%)	4	4	1.090	0.2602	1.090	0.1013	0.2602	0.0920	23.87%	4.65%	0.0200	3.95%
251.00	Acid Soluble Lead , AA, test portion as in 2006.0... (ppm)	1		2.000									
251.30	Acid Soluble Lead , ICP (ppm)	7	7	2.281	0.5271	2.233		0.5129	0.1371	22.97%		0.1278	14.18%
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	1		0.0000									
251.99	Acid Soluble Lead , Other (ppm)	2	2	33.80	45.62								
261.00	Acid Soluble Manganese , AA, Mn2+ only (%)	1		0.0280									
261.12	Acid Soluble Manganese , AA, inorganic 965.09 (%)	1		0.0250									
261.30	Acid Soluble Manganese , ICP, test portion 972.02a (%)	9	8	0.0294	0.0015	0.0294		0.0013	0.0003	4.53%		0.0002	6.80%
261.31	Acid Soluble Manganese , ICP, test portion 972.02b (%)	1		0.0300									
261.32	Acid Soluble Manganese , ICP, test portion inorga... (%)	1		0.0260									
261.34	Acid Soluble Manganese , ICP, test portion 2006.0... (%)	1		0.0295									
261.35	Acid Soluble Manganese , ICP, test portion 2006.0... (%)	1		0.0300									
261.99	Acid Soluble Manganese , Other (%)	1		0.0275									
281.00	Acid Soluble Mercury , AA (ppm)	2	2	141.5	200.1								
281.30	Acid Soluble Mercury , ICP (ppm)	1		0.2855									
289.30	Acid Soluble Molybdenum , ICP (ppm)	8	8	10.52	1.209	10.55		1.322	0.3305	12.54%		0.3411	11.22%
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (ppm)	1		11.38									
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010C (ppm)	1		9.965									
289.99	Acid Soluble Molybdenum , Other (ppm)	2	2	12.53	1.803								
291.00	Acid Soluble Nickel , AA, test portion as in 2006... (ppm)	1		17.00									
291.30	Acid Soluble Nickel , ICP (ppm)	8	8	16.45	0.8872	16.37		0.8352	0.2088	5.10%		0.2373	10.50%
291.32	Acid Soluble Nickel , ICP, 2006.03 (ppm)	1		18.90									
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	1		16.72									
291.99	Acid Soluble Nickel , Other (ppm)	4	4	14.64	1.215	14.64		1.215	0.4295	8.30%		0.2250	10.68%
301.30	Acid Soluble Selenium , ICP (ppm)	2	0	0.0000									
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	1		0.0000									
311.30	Sodium, Flame Photometric (%)	1		0.0900									
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl test ... (%)	3	3	0.0827	0.0545	0.0827		0.0544	0.0222	65.88%		0.0020	5.82%
311.99	Sodium, Other (%)	3	3	0.1287	0.0290	0.1287		0.0290	0.0118	22.53%		0.0047	5.45%

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321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	11	11	1.076	0.2293	1.017	0.1097	0.0597	0.0127	5.87%	5.39%	0.0225	3.99%
321.01	Acid Soluble Zinc , AA, organic 965.09 (1%)	1		1.060									
321.30	Acid Soluble Zinc , ICP, test portion inorganic 9... (1%)	32	31	1.048	0.0682	1.043	0.1097	0.0583	0.0074	5.60%	5.26%	0.0231	3.97%
321.32	Acid Soluble Zinc , ICP, test portion 2006.03A-C (1%)	2	2	1.148	0.2086								
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C,... (1%)	4	4	1.108	0.0734	1.108	0.1097	0.0734	0.0260	6.63%	4.95%	0.0191	3.94%
321.99	Acid Soluble Zinc , Other (1%)	4	4	1.071	0.0189	1.071	0.1097	0.0189	0.0067	1.76%	5.12%	0.0725	3.96%
325.00	Water Soluble Zinc , AA (%)	1		0.6300									
325.10	Water Soluble Zinc , Gravimetric (%)	1		0.4650									
325.30	Water Soluble Zinc , ICP (%)	5	5	0.5790	0.2724	0.5790		0.2724	0.0862	47.05%		0.0489	4.34%

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 150611
micros

Method Precision Report

Issue Date : 07/31/2015

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 (%)	13	13	11.59	0.5015	0.4945	0.1182	0.5084	4.27%	1.02%	4.39%	4.301
001.99	Ammoniacal Nitrogen, Other (%)	16	13	11.85	0.3871	0.3867	0.0242	0.3875	3.26%	0.20%	3.27%	16.01
010.11	Total Nitrogen, Modified Comprehensive (12%)	7	7	11.90	0.1364	0.1355	0.0219	0.1372	1.14%	0.18%	1.15%	6.273
010.60	Total Nitrogen, Combustion (12%)	58	54	11.96	0.2097	0.1986	0.0951	0.2202	1.66%	0.79%	1.84%	2.316
020.10	Total Phosphorus as P2O5, Gravimetric Quinolinium MolybdoP (%)	7	6	41.19	0.3613	0.3536	0.1053	0.3689	0.86%	0.26%	0.90%	3.503
020.20	Total Phosphorus as P2O5, Spectrophotometric MolybdovanadoP (%)	23	20	40.66	0.3949	0.3576	0.2368	0.4289	0.88%	0.58%	1.05%	1.811
020.40	Total Phosphorus as P2O5, Automated (%)	6	3	40.55	0.0569		0.0983			0.24%		
020.50	Total Phosphorus as P2O5, ICP (%)	13	13	40.86	0.9861	0.8900	0.6006	1.074	2.18%	1.47%	2.63%	1.788
041.10	Direct Available Phosphorus as P2O5, Gravimetric Quinolinium (40%)	8	8	40.27	0.4995	0.4950	0.0942	0.5039	1.23%	0.23%	1.25%	5.350
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	6	6	39.35	0.8456	0.6352	0.7892	1.013	1.61%	2.01%	2.57%	1.284
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA Ext. (40%)	12	10	40.04	0.5237	0.4893	0.2638	0.5559	1.22%	0.66%	1.39%	2.107
050.99	Soluble Potassium as K2O, Other (%)	6	6	0.1850	0.1100	0.1091	0.0200	0.1110	58.99%	10.81%	59.97%	5.548
101.30	Acid Soluble Calcium, ICP, test portion inorganic 965.09 (%)	10	8	0.2168	0.0564	0.0563	0.0045	0.0565	25.96%	2.07%	26.04%	12.57
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (0.35%)	12	10	0.4590	0.0236	0.0224	0.0104	0.0247	4.89%	2.26%	5.39%	2.387
121.30	Acid Soluble Magnesium, ICP, test portion inorganic 965.09 (0.35%)	25	23	0.4923	0.0269	0.0260	0.0096	0.0277	5.28%	1.95%	5.63%	2.887
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon disulfide soluble sulfur (%)	7	7	6.344	2.566	2.565	0.1281	2.568	40.42%	2.02%	40.47%	20.05
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulfur - sulfate form (%)	6	6	5.298	0.1487	0.1450	0.0465	0.1523	2.74%	0.88%	2.87%	3.272
148.00	Total Sulfur, Combustion (10%)	8	8	10.51	0.2317	0.1776	0.2104	0.2753	1.69%	2.00%	2.62%	1.308
148.01	Total Sulfur, Gravimetric - sulfate and elemental (10%)	14	14	9.190	2.065	2.064	0.1114	2.067	22.46%	1.21%	22.49%	18.55
148.07	Total Sulfur, ICP, test portion as in 2006.03 modified w/9:3 HNO3:HCl (10%)	10	10	8.190	2.463	2.461	0.1308	2.465	30.05%	1.60%	30.09%	18.84
148.99	Total Sulfur, Other (10%)	10	10	8.140	2.788	2.787	0.1165	2.789	34.23%	1.43%	34.26%	23.93
151.30	Acid Soluble Arsenic , ICP (ppm)	8	8	10.26	3.805	3.793	0.4213	3.816	36.97%	4.11%	37.20%	9.059
181.30	Acid Soluble Cadmium , ICP (ppm)	9	8	3.616	0.4315	0.4282	0.0760	0.4349	11.84%	2.10%	12.03%	5.718
191.30	Acid Soluble Chromium , ICP (ppm)	9	8	68.92	3.222	3.110	1.189	3.330	4.51%	1.72%	4.83%	2.801
202.30	Acid Soluble Cobalt , ICP (ppm)	8	5	3.482	0.3889	0.3867	0.0581	0.3911	11.11%	1.67%	11.23%	6.730
221.30	Acid Soluble Copper , ICP, test portion inorganic 965.09 (%)	9	3	0.0002	0.0000	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%	
241.00	Acid Soluble Iron , AA, inorganic 965.09 (0.9%)	10	8	0.9504	0.0496	0.0480	0.0175	0.0511	5.05%	1.85%	5.38%	2.913
241.30	Acid Soluble Iron , ICP, test portion inorganic 965.09 (0.9%)	27	23	0.9795	0.0422	0.0403	0.0175	0.0440	4.12%	1.79%	4.49%	2.509
251.30	Acid Soluble Lead , ICP (ppm)	7	7	2.281	0.5271	0.5205	0.1182	0.5337	22.82%	5.18%	23.40%	4.515
261.30	Acid Soluble Manganese , ICP, test portion 972.02a (%)	9	7	0.0291	0.0012	0.0012	0.0001	0.0012	4.23%	0.34%	4.25%	12.34

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
289.30	Acid Soluble Molybdenum , ICP (ppm)	8	8	10.52	1.209	1.181	0.3643	1.236	11.22%	3.46%	11.75%	3.393
291.30	Acid Soluble Nickel , ICP (ppm)	8	8	16.45	0.8871	0.8729	0.2237	0.9011	5.31%	1.36%	5.48%	4.028
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	11	10	1.008	0.0458	0.0440	0.0178	0.0475	4.37%	1.77%	4.71%	2.666
321.30	Acid Soluble Zinc , ICP, test portion inorganic 965.09 (1%)	32	30	1.048	0.0694	0.0678	0.0205	0.0709	6.47%	1.96%	6.76%	3.452

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Methods: 124

Sample # 150611

Lab Values

Labs Reporting: 89

micros

Issue Date : 07/31/2015

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	10.65	0.3000	11.60	0.5470	0.1384	13	-1.74	4%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0177	11.05	0.3196	11.60	0.5470	0.1384	13	-1.00	2%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0258	11.11	0.1900	11.60	0.5470	0.1384	13	-0.90	2%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0234	11.12	0.0300	11.60	0.5470	0.1384	13	-0.89	2%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0456	11.45	0.0700	11.60	0.5470	0.1384	13	-0.28	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0481	11.53	0.0600	11.60	0.5470	0.1384	13	-0.13	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0500	11.58	0.1400	11.60	0.5470	0.1384	13	-0.04	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0309	11.73	0.2100	11.60	0.5470	0.1384	13	0.23	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0231	11.94	0.0500	11.60	0.5470	0.1384	13	0.61	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0486	11.97	0.1100	11.60	0.5470	0.1384	13	0.67	2%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0498	12.10	0.2000	11.60	0.5470	0.1384	13	0.92	2%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0444	12.22	0.0500	11.60	0.5470	0.1384	13	1.13	3%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0513	12.25	0.0700	11.60	0.5470	0.1384	13	1.18	3%	0
001.99	Ammoniacal Nitrogen, Other (%)	0368	10.66	0.1100	11.96	0.1425	0.0394	15	-9.15	5%	0
001.99	Ammoniacal Nitrogen, Other (%)	0394	11.00	0.0000	11.96	0.1425	0.0394	15	-6.72	4%	0
001.99	Ammoniacal Nitrogen, Other (%)	0415	11.15	0.0210	11.96	0.1425	0.0394	15	-5.66	3%	0
001.99	Ammoniacal Nitrogen, Other (%)	0420	11.54	0.0700	11.96	0.1425	0.0394	15	-2.97	2%	0
001.99	Ammoniacal Nitrogen, Other (%)	0169	11.89	0.0100	11.96	0.1425	0.0394	15	-0.51	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0096	11.91	0.0700	11.96	0.1425	0.0394	15	-0.37	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0371	11.94	0.1600	11.96	0.1425	0.0394	15	-0.13	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0220	12.00	0.0100	11.96	0.1425	0.0394	15	0.26	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0211	12.00	0.0200	11.96	0.1425	0.0394	15	0.29	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0510	12.01	0.0400	11.96	0.1425	0.0394	15	0.36	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0493	12.03	0.0500	11.96	0.1425	0.0394	15	0.47	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0300	12.08	0.0100	11.96	0.1425	0.0394	15	0.82	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0405	12.09	0.0100	11.96	0.1425	0.0394	15	0.89	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0487	12.10	0.0000	11.96	0.1425	0.0394	15	1.00	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0513	12.32	0.0100	11.96	0.1425	0.0394	15	2.51	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0506	11.95	0.3000	11.96	0.1425	0.0394	15	-0.06	0%	1
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0090	11.93	0.0600	12.06	0.2052	0.2367	3	-0.63	1%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0258	11.95	0.0600	12.06	0.2052	0.2367	3	-0.53	0%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0444	12.30	0.5900	12.06	0.2052	0.2367	3	1.15	1%	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0114	11.71	0.0400	11.90	0.1291	0.0271	7	-1.46	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				
010.11	Total Nitrogen, Modified Comprehensive (12%)	0456	11.76	0.0400	11.90	0.1291	0.0271	7	-1.07	1%	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0309	11.88	0.0400	11.90	0.1291	0.0271	7	-0.14	0%	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0474	11.91	0.0300	11.90	0.1291	0.0271	7	0.05	0%	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0105	11.96	0.0000	11.90	0.1291	0.0271	7	0.48	0%	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0220	11.98	0.0100	11.90	0.1291	0.0271	7	0.59	0%	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0510	12.12	0.0300	11.90	0.1291	0.0271	7	1.68	1%	0
010.12	Total Nitrogen, Salicylic (12%)	0455	12.05	0.0100	12.08	0.0318	0.0900	3	-1.15	0%	0
010.12	Total Nitrogen, Salicylic (12%)	0498	12.10	0.2000	12.08	0.0318	0.0900	3	0.58	0%	0
010.12	Total Nitrogen, Salicylic (12%)	0185	12.10	0.0600	12.08	0.0318	0.0900	3	0.58	0%	0
010.17	Total Nitrogen, Comprehensive (12%)	0508	12.39	0.0200			0.0200	1			0
010.60	Total Nitrogen, Combustion (12%)	0394	11.10*	0.0000	11.95	0.1910	0.1046	57	-4.45	4%	0
010.60	Total Nitrogen, Combustion (12%)	0351	11.56	0.2307	11.95	0.1910	0.1046	57	-2.06	2%	0
010.60	Total Nitrogen, Combustion (12%)	0481	11.61	0.1500	11.95	0.1910	0.1046	57	-1.81	1%	0
010.60	Total Nitrogen, Combustion (12%)	0485	11.64	0.3800	11.95	0.1910	0.1046	57	-1.62	1%	0
010.60	Total Nitrogen, Combustion (12%)	0451	11.65	0.0800	11.95	0.1910	0.1046	57	-1.57	1%	0
010.60	Total Nitrogen, Combustion (12%)	0421	11.66	0.1800	11.95	0.1910	0.1046	57	-1.52	1%	0
010.60	Total Nitrogen, Combustion (12%)	0356	11.71	0.1800	11.95	0.1910	0.1046	57	-1.26	1%	0
010.60	Total Nitrogen, Combustion (12%)	0444	11.72	0.0100	11.95	0.1910	0.1046	57	-1.23	1%	0
010.60	Total Nitrogen, Combustion (12%)	0041	11.73	0.0300	11.95	0.1910	0.1046	57	-1.18	1%	0
010.60	Total Nitrogen, Combustion (12%)	0234	11.75	0.0300	11.95	0.1910	0.1046	57	-1.07	1%	0
010.60	Total Nitrogen, Combustion (12%)	0025	11.79	0.5900	11.95	0.1910	0.1046	57	-0.86	1%	0
010.60	Total Nitrogen, Combustion (12%)	0007	11.80	0.2000	11.95	0.1910	0.1046	57	-0.79	1%	0
010.60	Total Nitrogen, Combustion (12%)	0102	11.81	0.2300	11.95	0.1910	0.1046	57	-0.76	1%	0
010.60	Total Nitrogen, Combustion (12%)	0368	11.82	0.0650	11.95	0.1910	0.1046	57	-0.70	1%	0
010.60	Total Nitrogen, Combustion (12%)	0402	11.82	0.0150	11.95	0.1910	0.1046	57	-0.68	1%	0
010.60	Total Nitrogen, Combustion (12%)	0095	11.83	0.3600	11.95	0.1910	0.1046	57	-0.63	1%	0
010.60	Total Nitrogen, Combustion (12%)	0043	11.84	0.0300	11.95	0.1910	0.1046	57	-0.60	0%	0
010.60	Total Nitrogen, Combustion (12%)	0390	11.85	0.0700	11.95	0.1910	0.1046	57	-0.55	0%	0
010.60	Total Nitrogen, Combustion (12%)	0422	11.85	0.0700	11.95	0.1910	0.1046	57	-0.55	0%	0
010.60	Total Nitrogen, Combustion (12%)	0086	11.87	0.0890	11.95	0.1910	0.1046	57	-0.41	0%	0
010.60	Total Nitrogen, Combustion (12%)	0233	11.90	0.1700	11.95	0.1910	0.1046	57	-0.29	0%	0
010.60	Total Nitrogen, Combustion (12%)	0042	11.90	0.0000	11.95	0.1910	0.1046	57	-0.26	0%	0
010.60	Total Nitrogen, Combustion (12%)	0423	11.91	0.0600	11.95	0.1910	0.1046	57	-0.21	0%	0
010.60	Total Nitrogen, Combustion (12%)	0377	11.94	0.0200	11.95	0.1910	0.1046	57	-0.05	0%	0
010.60	Total Nitrogen, Combustion (12%)	0096	11.94	0.1000	11.95	0.1910	0.1046	57	-0.05	0%	0
010.60	Total Nitrogen, Combustion (12%)	0035	11.95	0.0300	11.95	0.1910	0.1046	57	-0.03	0%	0
010.60	Total Nitrogen, Combustion (12%)	0324	11.95	0.1000	11.95	0.1910	0.1046	57	0.00	0%	0
010.60	Total Nitrogen, Combustion (12%)	0516	11.95	0.1000	11.95	0.1910	0.1046	57	0.00	0%	0
010.60	Total Nitrogen, Combustion (12%)	0291	11.97	0.0100	11.95	0.1910	0.1046	57	0.08	0%	0
010.60	Total Nitrogen, Combustion (12%)	0405	11.97	0.0300	11.95	0.1910	0.1046	57	0.08	0%	0
010.60	Total Nitrogen, Combustion (12%)	0177	11.98	0.0800	11.95	0.1910	0.1046	57	0.16	0%	0
010.60	Total Nitrogen, Combustion (12%)	0292	11.99	0.0100	11.95	0.1910	0.1046	57	0.18	0%	0
010.60	Total Nitrogen, Combustion (12%)	0360	11.99	0.0700	11.95	0.1910	0.1046	57	0.18	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				
010.60	Total Nitrogen, Combustion (12%)	0049	12.01	0.0900	11.95	0.1910	0.1046	57	0.29	0%	0
010.60	Total Nitrogen, Combustion (12%)	0486	12.01	0.0600	11.95	0.1910	0.1046	57	0.31	0%	0
010.60	Total Nitrogen, Combustion (12%)	0472	12.03	0.0300	11.95	0.1910	0.1046	57	0.39	0%	0
010.60	Total Nitrogen, Combustion (12%)	0452	12.04	0.0200	11.95	0.1910	0.1046	57	0.47	0%	0
010.60	Total Nitrogen, Combustion (12%)	0483	12.04	0.0200	11.95	0.1910	0.1046	57	0.47	0%	0
010.60	Total Nitrogen, Combustion (12%)	0024	12.05	0.1000	11.95	0.1910	0.1046	57	0.52	0%	0
010.60	Total Nitrogen, Combustion (12%)	0040	12.05	0.1000	11.95	0.1910	0.1046	57	0.52	0%	0
010.60	Total Nitrogen, Combustion (12%)	0157	12.05	0.1000	11.95	0.1910	0.1046	57	0.52	0%	0
010.60	Total Nitrogen, Combustion (12%)	0482	12.05	0.3000	11.95	0.1910	0.1046	57	0.52	0%	0
010.60	Total Nitrogen, Combustion (12%)	0105	12.06	0.0010	11.95	0.1910	0.1046	57	0.55	0%	0
010.60	Total Nitrogen, Combustion (12%)	0136	12.07	0.0200	11.95	0.1910	0.1046	57	0.63	1%	0
010.60	Total Nitrogen, Combustion (12%)	0307	12.09	0.0200	11.95	0.1910	0.1046	57	0.73	1%	0
010.60	Total Nitrogen, Combustion (12%)	0275	12.10	0.0900	11.95	0.1910	0.1046	57	0.76	1%	0
010.60	Total Nitrogen, Combustion (12%)	0018	12.10	0.0000	11.95	0.1910	0.1046	57	0.79	1%	0
010.60	Total Nitrogen, Combustion (12%)	0072	12.10	0.1200	11.95	0.1910	0.1046	57	0.79	1%	0
010.60	Total Nitrogen, Combustion (12%)	0162	12.14	0.1600	11.95	0.1910	0.1046	57	1.00	1%	0
010.60	Total Nitrogen, Combustion (12%)	0055	12.15	0.1100	11.95	0.1910	0.1046	57	1.02	1%	0
010.60	Total Nitrogen, Combustion (12%)	0406	12.16	0.1100	11.95	0.1910	0.1046	57	1.07	1%	0
010.60	Total Nitrogen, Combustion (12%)	0354	12.18	0.0430	11.95	0.1910	0.1046	57	1.21	1%	0
010.60	Total Nitrogen, Combustion (12%)	0029	12.36	0.1600	11.95	0.1910	0.1046	57	2.15	2%	0
010.60	Total Nitrogen, Combustion (12%)	0117	12.45	0.3000	11.95	0.1910	0.1046	57	2.62	2%	0
010.60	Total Nitrogen, Combustion (12%)	0389	12.47	0.1900	11.95	0.1910	0.1046	57	2.70	2%	0
010.60	Total Nitrogen, Combustion (12%)	0494	12.59	0.0360	11.95	0.1910	0.1046	57	3.37	3%	0
010.60	Total Nitrogen, Combustion (12%)	0073	13.17	0.0100	11.95	0.1910	0.1046	57	6.36	5%	0
010.60	Total Nitrogen, Combustion (12%)	0230	13.55	3.300	11.95	0.1910	0.1046	57	8.38	7%	1
010.99	Total Nitrogen, Other (12%)	0415	11.64	0.5053	11.76	0.1574	0.5351	3	-0.75	1%	0
010.99	Total Nitrogen, Other (12%)	0487	11.70	1.000	11.76	0.1574	0.5351	3	-0.39	0%	0
010.99	Total Nitrogen, Other (12%)	0420	11.94	0.1000	11.76	0.1574	0.5351	3	1.14	1%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0322	0.0200	0.0000	41.19	0.3354	0.0957	7	-122.74	50%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0444	40.64	0.1000	41.19	0.3354	0.0957	7	-1.63	1%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0157	40.85	0.1000	41.19	0.3354	0.0957	7	-1.00	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0090	41.34	0.2900	41.19	0.3354	0.0957	7	0.44	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0105	41.34	0.1700	41.19	0.3354	0.0957	7	0.44	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0211	41.46	0.0100	41.19	0.3354	0.0957	7	0.80	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0500	41.54	0.0000	41.19	0.3354	0.0957	7	1.06	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0506	39.75	1.100	40.69	0.3519	0.2729	22	-2.67	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0420	39.84	0.1200	40.69	0.3519	0.2729	22	-2.41	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0508	39.88	0.3600	40.69	0.3519	0.2729	22	-2.30	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0457	40.18	0.1500	40.69	0.3519	0.2729	22	-1.46	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0481	40.24	0.3300	40.69	0.3519	0.2729	22	-1.29	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0324	40.50	0.0000	40.69	0.3519	0.2729	22	-0.54	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0500	40.57	0.0200	40.69	0.3519	0.2729	22	-0.34	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0356	40.62	0.4100	40.69	0.3519	0.2729	22	-0.21	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				
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0169	40.63	0.0400	40.69	0.3519	0.2729	22	-0.17	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0027	40.68	0.1680	40.69	0.3519	0.2729	22	-0.02	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0292	40.69	0.0500	40.69	0.3519	0.2729	22	-0.01	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0258	40.71	0.6300	40.69	0.3519	0.2729	22	0.05	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0394	40.73	0.0500	40.69	0.3519	0.2729	22	0.10	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0231	40.85	0.2100	40.69	0.3519	0.2729	22	0.44	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0371	40.85	0.1200	40.69	0.3519	0.2729	22	0.46	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0428	40.89	0.7259	40.69	0.3519	0.2729	22	0.57	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0220	40.92	0.2300	40.69	0.3519	0.2729	22	0.64	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0474	40.97	0.0900	40.69	0.3519	0.2729	22	0.78	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0405	40.99	0.1300	40.69	0.3519	0.2729	22	0.84	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0513	41.11	0.1200	40.69	0.3519	0.2729	22	1.20	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0406	41.46	0.8300	40.69	0.3519	0.2729	22	2.18	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0510	42.28	0.1200	40.69	0.3519	0.2729	22	4.52	2%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0516	41.72	2.640	40.69	0.3519	0.2729	22	2.93	1%	1
020.40	Total Phosphorus as P2O5, Automated (%)	0042	40.50	0.2000	40.66	0.2190	0.5240	5	-0.72	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0456	40.53	0.0600	40.66	0.2190	0.5240	5	-0.58	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0035	40.61	1.860	40.66	0.2190	0.5240	5	-0.22	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0500	40.61	0.1200	40.66	0.2190	0.5240	5	-0.22	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0105	41.04	0.3800	40.66	0.2190	0.5240	5	1.74	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0096	25.89	30.09	40.66	0.2190	0.5240	5	-67.45	18%	1
020.50	Total Phosphorus as P2O5, ICP (%)	0472	39.11	1.990	40.87	1.090	0.5480	13	-1.62	2%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0422	39.65	0.2300	40.87	1.090	0.5480	13	-1.13	2%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0389	39.85	0.3700	40.87	1.090	0.5480	13	-0.94	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0307	40.22	1.526	40.87	1.090	0.5480	13	-0.60	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0291	40.27	0.0100	40.87	1.090	0.5480	13	-0.56	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0423	40.85	0.1200	40.87	1.090	0.5480	13	-0.02	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0368	40.98	0.2180	40.87	1.090	0.5480	13	0.10	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0482	41.25	0.1000	40.87	1.090	0.5480	13	0.35	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0483	41.25	0.0000	40.87	1.090	0.5480	13	0.35	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0390	41.70	1.390	40.87	1.090	0.5480	13	0.75	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0234	41.84	0.1600	40.87	1.090	0.5480	13	0.89	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0402	41.85	0.0800	40.87	1.090	0.5480	13	0.90	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0451	42.40	0.9300	40.87	1.090	0.5480	13	1.40	2%	0
020.99	Total Phosphorus as P2O5, Other (%)	0487	39.85	0.1000	40.23	0.5303	0.1500	2	-0.71	0%	0
020.99	Total Phosphorus as P2O5, Other (%)	0455	40.60	0.2000	40.23	0.5303	0.1500	2	0.71	0%	0
030.20	Citrate Insoluble Phosphorus as P2O5, Spectro... (%)	0513	0.0075	0.0050	0.2013	0.2740	0.0175	2	-0.71	48%	0
030.20	Citrate Insoluble Phosphorus as P2O5, Spectro... (%)	0220	0.3950	0.0300	0.2013	0.2740	0.0175	2	0.71	48%	0
040.20	Indirect Available Phosphorus as P2O5, Spectr... (40%)	0405	40.51	0.1000	40.81	0.4190	0.1125	2	-0.71	0%	0
040.20	Indirect Available Phosphorus as P2O5, Spectr... (40%)	0513	41.10	0.1250	40.81	0.4190	0.1125	2	0.71	0%	0
040.40	Indirect Available Phosphorus as P2O5, Automa... (40%)	0096	40.68	0.0100			0.0100	1			0
040.50	Indirect Available Phosphorus as P2O5, ICP (40%)	0072	40.78	1.110			1.110	1			0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0102	39.40	0.0000	40.30	0.5089	0.0932	8	-1.76	1%	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0177	39.77	0.0532	40.30	0.5089	0.0932	8	-1.03	1%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0072	40.09	0.1800	40.30	0.5089	0.0932	8	-0.42	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0493	40.20	0.1000	40.30	0.5089	0.0932	8	-0.19	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0185	40.52	0.0000	40.30	0.5089	0.0932	8	0.44	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0086	40.64	0.0421	40.30	0.5089	0.0932	8	0.67	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0040	40.75	0.3000	40.30	0.5089	0.0932	8	0.89	1%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0049	40.80	0.0700	40.30	0.5089	0.0932	8	0.98	1%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0055	39.25	0.3000	39.96	0.4753	0.1750	4	-1.49	1%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0485	40.12	0.0100	39.96	0.4753	0.1750	4	0.33	0%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0220	40.21	0.1400	39.96	0.4753	0.1750	4	0.53	0%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0105	40.26	0.2500	39.96	0.4753	0.1750	4	0.63	0%	0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (40%)	0055	39.63	0.0000	40.28	0.9228	0.0450	2	-0.71	1%	0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (40%)	0513	40.94	0.0900	40.28	0.9228	0.0450	2	0.71	1%	0
041.40	Direct Available Phosphorus as P2O5, Automate... (40%)	0095	39.71	0.5300	40.10	0.5621	0.2650	2	-0.71	0%	0
041.40	Direct Available Phosphorus as P2O5, Automate... (40%)	0018	40.50	0.0000	40.10	0.5621	0.2650	2	0.71	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	0025	38.45*	1.100	39.35	0.9589	0.8217	6	-0.94	1%	0
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	0368	38.50*	0.3400	39.35	0.9589	0.8217	6	-0.89	1%	0
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	0043	39.25	0.2900	39.35	0.9589	0.8217	6	-0.11	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	0007	39.25	2.300	39.35	0.9589	0.8217	6	-0.10	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	0452	40.08	0.0200	39.35	0.9589	0.8217	6	0.76	1%	0
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	0233	40.57	0.8800	39.35	0.9589	0.8217	6	1.27	2%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (40%)	0423	37.11*	0.1900	39.42	1.680	0.4725	4	-1.38	3%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (40%)	0360	39.51	0.6900	39.42	1.680	0.4725	4	0.05	0%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (40%)	0377	39.96	0.0400	39.42	1.680	0.4725	4	0.32	1%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (40%)	0421	41.10	0.9700	39.42	1.680	0.4725	4	1.00	2%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0354	37.89*	0.2030	39.94	0.6770	0.2664	11	-3.03	3%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0029	39.18	0.7300	39.94	0.6770	0.2664	11	-1.13	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0073	39.53	0.7500	39.94	0.6770	0.2664	11	-0.61	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0043	39.70	0.0600	39.94	0.6770	0.2664	11	-0.35	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0177	39.84	0.1398	39.94	0.6770	0.2664	11	-0.14	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0231	39.88	0.1100	39.94	0.6770	0.2664	11	-0.09	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0351	40.03	0.2672	39.94	0.6770	0.2664	11	0.13	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0105	40.30	0.0700	39.94	0.6770	0.2664	11	0.53	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0136	40.41	0.0500	39.94	0.6770	0.2664	11	0.69	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0486	40.75	0.1500	39.94	0.6770	0.2664	11	1.19	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0117	40.80	0.4000	39.94	0.6770	0.2664	11	1.27	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0472	39.10*	2.150	39.94	0.6770	0.2664	11	-1.25	1%	1
041.99	Direct Available Phosphorus as P2O5, Other (40%)	0105	39.92	0.3400	40.76	0.9569	0.8133	3	-0.87	1%	0
041.99	Direct Available Phosphorus as P2O5, Other (40%)	0506	40.55	0.3000	40.76	0.9569	0.8133	3	-0.22	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (40%)	0230	41.80	1.800	40.76	0.9569	0.8133	3	1.09	1%	0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0405	35.87	0.0600	36.06	0.2869	0.2000	3	-0.66	0%	0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0394	35.92	0.5200	36.06	0.2869	0.2000	3	-0.49	0%	0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0420	36.39	0.0200	36.06	0.2869	0.2000	3	1.15	0%	0

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048.40	Water Soluble Phosphorus as P2O5, Automated (%)	0096	35.67	0.1700			0.1700	1			0
050.10	Soluble Potassium as K2O, STPB Citrate (%)	0322	40.12	0.0500			0.0500	1			0
050.31	Soluble Potassium as K2O, AA (Citrate) (%)	0472	0.0600	0.1200			0.1200	0			4
050.50	Soluble Potassium as K2O, ICP (Oxalate) (%)	0292	0.0600	0.0200	0.1125	0.0742	0.0100	2	-0.71	23%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (%)	0420	0.1650	0.0000	0.1125	0.0742	0.0100	2	0.71	23%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (%)	0406	0.0000	0.0000	0.1125	0.0742	0.0100	2	-1.52	50%	4
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	0421	0.1365	0.0010	0.2145	0.0831	0.0265	4	-0.94	18%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	0423	0.1850	0.0300	0.2145	0.0831	0.0265	4	-0.35	7%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	0377	0.2050	0.0100	0.2145	0.0831	0.0265	4	-0.11	2%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	0354	0.3315	0.0650	0.2145	0.0831	0.0265	4	1.41	27%	0
050.60	Soluble Potassium as K2O, Flame Photometric (... (%))	0105	0.3350	0.0100	18.89	26.24	0.1250	2	-0.71	49%	0
050.60	Soluble Potassium as K2O, Flame Photometric (... (%))	0309	37.45	0.2400	18.89	26.24	0.1250	2	0.71	49%	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (%))	0105	0.2300	0.0000	18.89	26.24	0.0000	1	-0.71	49%	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (%))	0018	0.0000	0.0000	18.89	26.24	0.0000	1	-0.72	50%	4
050.99	Soluble Potassium as K2O, Other (%)	0096	0.1150	0.0100	0.1256	0.0127	0.0200	6	-0.83	4%	0
050.99	Soluble Potassium as K2O, Other (%)	0389	0.1150	0.0100	0.1256	0.0127	0.0200	6	-0.83	4%	0
050.99	Soluble Potassium as K2O, Other (%)	0474	0.1200	0.0000	0.1256	0.0127	0.0200	6	-0.44	2%	0
050.99	Soluble Potassium as K2O, Other (%)	0482	0.1250	0.0100	0.1256	0.0127	0.0200	6	-0.04	0%	0
050.99	Soluble Potassium as K2O, Other (%)	0105	0.2550	0.0300	0.1256	0.0127	0.0200	6	10.21	52%	0
050.99	Soluble Potassium as K2O, Other (%)	0042	0.3800	0.0600	0.1256	0.0127	0.0200	6	20.06	101%	0
060.00	Water (Free), Vacuum Oven (%)	0007	0.6700	0.0400	0.8533	0.1680	0.0600	3	-1.09	11%	0
060.00	Water (Free), Vacuum Oven (%)	0456	0.8900	0.0600	0.8533	0.1680	0.0600	3	0.22	2%	0
060.00	Water (Free), Vacuum Oven (%)	0096	1.000	0.0800	0.8533	0.1680	0.0600	3	0.87	9%	0
060.20	Water (Free), Karl Fischer (%)	0500	0.6000	0.0400			0.0400	1			0
060.99	Water (Free), Other (%)	0510	1.235	0.0100			0.0100	1			0
101.00	Acid Soluble Calcium, AA, inorganic 965.09 (%)	0457	0.2000	0.0000			0.0000	1			0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0472	0.1000	0.0000	0.2174	0.0262	0.0268	9	-4.49	27%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0390	0.1251	0.2018	0.2174	0.0262	0.0268	9	-3.53	21%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0482	0.2050	0.0100	0.2174	0.0262	0.0268	9	-0.48	3%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0474	0.2150	0.0100	0.2174	0.0262	0.0268	9	-0.09	1%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0096	0.2205	0.0030	0.2174	0.0262	0.0268	9	0.12	1%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0102	0.2220	0.0020	0.2174	0.0262	0.0268	9	0.17	1%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0049	0.2250	0.0100	0.2174	0.0262	0.0268	9	0.29	2%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0420	0.2425	0.0030	0.2174	0.0262	0.0268	9	0.96	6%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0354	0.3045	0.0010	0.2174	0.0262	0.0268	9	3.33	20%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0041	0.3650	0.2900	0.2174	0.0262	0.0268	9	5.64	34%	1
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0423	0.1855	0.0110			0.0110	1			0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0421	0.2800	0.1000			0.1000	1			0
101.99	Acid Soluble Calcium, Other (%)	0389	0.2125	0.0050			0.0050	1			0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.35%)	0513	0.4045	0.0130	0.4692	0.0246	0.0162	12	-2.63	7%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.35%)	0169	0.4450	0.0300	0.4692	0.0246	0.0162	12	-0.98	3%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.35%)	0481	0.4450	0.0100	0.4692	0.0246	0.0162	12	-0.98	3%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.35%)	0043	0.4510	0.0080	0.4692	0.0246	0.0162	12	-0.74	2%	0

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121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.35%)	0258	0.4645	0.0090	0.4692	0.0246	0.0162	12	-0.19	0%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.35%)	0457	0.4685	0.0030	0.4692	0.0246	0.0162	12	-0.03	0%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.35%)	0157	0.4725	0.0030	0.4692	0.0246	0.0162	12	0.14	0%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.35%)	0029	0.4787	0.0203	0.4692	0.0246	0.0162	12	0.39	1%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.35%)	0498	0.4800	0.0200	0.4692	0.0246	0.0162	12	0.44	1%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.35%)	0485	0.4805	0.0010	0.4692	0.0246	0.0162	12	0.46	1%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.35%)	0516	0.5123	0.0574	0.4692	0.0246	0.0162	12	1.75	5%	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (0.35%)	0309	0.5700	0.0200	0.4692	0.0246	0.0162	12	4.09	11%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0230	0.4285	0.0030	0.4951	0.0272	0.0118	25	-2.45	7%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0474	0.4400	0.0000	0.4951	0.0272	0.0118	25	-2.03	6%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0027	0.4630	0.0160	0.4951	0.0272	0.0118	25	-1.18	3%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0096	0.4750	0.0100	0.4951	0.0272	0.0118	25	-0.74	2%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0291	0.4750	0.0100	0.4951	0.0272	0.0118	25	-0.74	2%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0482	0.4750	0.0100	0.4951	0.0272	0.0118	25	-0.74	2%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0049	0.4800	0.0200	0.4951	0.0272	0.0118	25	-0.56	2%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0157	0.4800	0.0120	0.4951	0.0272	0.0118	25	-0.56	2%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0444	0.4800	0.0200	0.4951	0.0272	0.0118	25	-0.56	2%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0472	0.4800	0.0400	0.4951	0.0272	0.0118	25	-0.56	2%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0102	0.4890	0.0020	0.4951	0.0272	0.0118	25	-0.23	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0233	0.4915	0.0082	0.4951	0.0272	0.0118	25	-0.13	0%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0095	0.4950	0.0100	0.4951	0.0272	0.0118	25	0.00	0%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0234	0.4950	0.0100	0.4951	0.0272	0.0118	25	0.00	0%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0055	0.5000	0.0200	0.4951	0.0272	0.0118	25	0.18	0%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0390	0.5025	0.0230	0.4951	0.0272	0.0118	25	0.27	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0433	0.5026	0.0083	0.4951	0.0272	0.0118	25	0.27	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0368	0.5042	0.0024	0.4951	0.0272	0.0118	25	0.33	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0354	0.5175	0.0010	0.4951	0.0272	0.0118	25	0.82	2%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0114	0.5200	0.0000	0.4951	0.0272	0.0118	25	0.91	3%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0231	0.5200	0.0200	0.4951	0.0272	0.0118	25	0.91	3%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0324	0.5220	0.0100	0.4951	0.0272	0.0118	25	0.99	3%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0420	0.5315	0.0070	0.4951	0.0272	0.0118	25	1.34	4%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0041	0.5350	0.0300	0.4951	0.0272	0.0118	25	1.47	4%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (0.35%)	0483	0.5725	0.0030	0.4951	0.0272	0.0118	25	2.85	8%	0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (0.35%)	0423	0.4715	0.0070			0.0070	1			0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (0.35%)	0515	0.4333	0.0036	0.4819	0.0383	0.0141	4	-1.27	5%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (0.35%)	0177	0.4691	0.0026	0.4819	0.0383	0.0141	4	-0.33	1%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (0.35%)	0486	0.5100	0.0000	0.4819	0.0383	0.0141	4	0.73	3%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (0.35%)	0421	0.5150	0.0500	0.4819	0.0383	0.0141	4	0.86	3%	0
121.99	Acid Soluble Magnesium, Other (0.35%)	0042	0.4500	0.0000	0.5340	0.1242	0.0670	4	-0.68	8%	0
121.99	Acid Soluble Magnesium, Other (0.35%)	0389	0.4560	0.0080	0.5340	0.1242	0.0670	4	-0.63	7%	0
121.99	Acid Soluble Magnesium, Other (0.35%)	0506	0.5150	0.1900	0.5340	0.1242	0.0670	4	-0.15	2%	0
121.99	Acid Soluble Magnesium, Other (0.35%)	0512	0.7150	0.0700	0.5340	0.1242	0.0670	4	1.46	17%	0
131.30	Water Soluble Magnesium, ICP (%)	0275	0.9750	0.0300			0.0300	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				
131.70	Water Soluble Magnesium, Titrimetric (EDTA) (%)	0510	0.2500	0.0200			0.0200	1			0
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon... (%)	0043	4.725	0.0900	4.979	0.2885	0.1343	7	-0.88	3%	0
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon... (%)	0095	4.730	0.3000	4.979	0.2885	0.1343	7	-0.86	3%	0
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon... (%)	0220	4.800	0.0200	4.979	0.2885	0.1343	7	-0.62	2%	0
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon... (%)	0485	4.905	0.1100	4.979	0.2885	0.1343	7	-0.26	1%	0
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon... (%)	0027	5.085	0.0300	4.979	0.2885	0.1343	7	0.37	1%	0
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon... (%)	0055	9.700	0.3400	4.979	0.2885	0.1343	7	16.36	47%	0
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon... (%)	0025	10.47	0.0500	4.979	0.2885	0.1343	7	19.01	55%	0
143.99	Elemental Sulfur, Other (%)	0390	5.360	0.2600	9.018	2.464	0.1650	4	-1.48	20%	0
143.99	Elemental Sulfur, Other (%)	0472	9.755	0.2100	9.018	2.464	0.1650	4	0.30	4%	0
143.99	Elemental Sulfur, Other (%)	0291	10.37	0.0100	9.018	2.464	0.1650	4	0.55	7%	0
143.99	Elemental Sulfur, Other (%)	0389	10.59	0.1800	9.018	2.464	0.1650	4	0.64	9%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0444	5.145	0.0900	5.276	0.1176	0.0500	6	-1.11	1%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0095	5.205	0.0300	5.276	0.1176	0.0500	6	-0.60	1%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0405	5.250	0.0000	5.276	0.1176	0.0500	6	-0.22	0%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0027	5.265	0.0100	5.276	0.1176	0.0500	6	-0.09	0%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0485	5.360	0.1200	5.276	0.1176	0.0500	6	0.72	1%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0220	5.565	0.0500	5.276	0.1176	0.0500	6	2.46	3%	0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0444	4.985	0.0500	6.438	1.901	0.0300	3	-0.76	11%	0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0513	5.740	0.0200	6.438	1.901	0.0300	3	-0.37	5%	0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0169	8.590	0.0200	6.438	1.901	0.0300	3	1.13	17%	0
148.00	Total Sulfur, Combustion (10%)	0474	10.26	0.2500	10.51	0.2590	0.2189	8	-0.99	1%	0
148.00	Total Sulfur, Combustion (10%)	0136	10.27	0.1100	10.51	0.2590	0.2189	8	-0.96	1%	0
148.00	Total Sulfur, Combustion (10%)	0360	10.39	0.2400	10.51	0.2590	0.2189	8	-0.47	1%	0
148.00	Total Sulfur, Combustion (10%)	0157	10.40	0.0000	10.51	0.2590	0.2189	8	-0.43	1%	0
148.00	Total Sulfur, Combustion (10%)	0029	10.48	0.6400	10.51	0.2590	0.2189	8	-0.13	0%	0
148.00	Total Sulfur, Combustion (10%)	0451	10.70	0.4000	10.51	0.2590	0.2189	8	0.72	1%	0
148.00	Total Sulfur, Combustion (10%)	0049	10.77	0.0400	10.51	0.2590	0.2189	8	0.99	1%	0
148.00	Total Sulfur, Combustion (10%)	0351	10.86	0.0715	10.51	0.2590	0.2189	8	1.33	2%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0444	5.245*	0.2700	10.09	0.3512	0.1288	14	-13.80	24%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0230	5.435*	0.2500	10.09	0.3512	0.1288	14	-13.26	23%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0324	5.495*	0.0700	10.09	0.3512	0.1288	14	-13.09	23%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0095	9.935	0.2700	10.09	0.3512	0.1288	14	-0.45	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0510	10.03	0.0600	10.09	0.3512	0.1288	14	-0.18	0%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0114	10.07	0.1700	10.09	0.3512	0.1288	14	-0.08	0%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0233	10.10	0.1800	10.09	0.3512	0.1288	14	0.02	0%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0105	10.13	0.1900	10.09	0.3512	0.1288	14	0.09	0%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0485	10.27	0.0100	10.09	0.3512	0.1288	14	0.49	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0043	10.34	0.0700	10.09	0.3512	0.1288	14	0.69	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0177	10.35	0.0305	10.09	0.3512	0.1288	14	0.73	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0029	10.37	0.1300	10.09	0.3512	0.1288	14	0.78	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0157	10.40	0.0000	10.09	0.3512	0.1288	14	0.88	2%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (10%)	0102	10.51	0.1030	10.09	0.3512	0.1288	14	1.20	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				
148.07	Total Sulfur, ICP, test portion as in 2006.03... (10%)	0406	4.590*	0.1000	8.665	1.987	0.1335	10	-2.05	24%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (10%)	0444	4.795*	0.0900	8.665	1.987	0.1335	10	-1.95	22%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (10%)	0394	5.040*	0.0600	8.665	1.987	0.1335	10	-1.82	21%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (10%)	0483	8.000*	0.2800	8.665	1.987	0.1335	10	-0.33	4%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (10%)	0515	8.883*	0.0993	8.665	1.987	0.1335	10	0.11	1%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (10%)	0292	9.495	0.0100	8.665	1.987	0.1335	10	0.42	5%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (10%)	0102	9.676	0.0210	8.665	1.987	0.1335	10	0.51	6%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (10%)	0177	10.22	0.4050	8.665	1.987	0.1335	10	0.78	9%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (10%)	0486	10.52	0.0100	8.665	1.987	0.1335	10	0.93	11%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (10%)	0421	10.69	0.2600	8.665	1.987	0.1335	10	1.02	12%	0
148.99	Total Sulfur, Other (10%)	0096	5.005*	0.0700	8.140	3.161	0.1262	10	-0.99	19%	0
148.99	Total Sulfur, Other (10%)	0421	5.135*	0.0500	8.140	3.161	0.1262	10	-0.95	18%	0
148.99	Total Sulfur, Other (10%)	0307	5.146*	0.1890	8.140	3.161	0.1262	10	-0.95	18%	0
148.99	Total Sulfur, Other (10%)	0354	5.370*	0.0430	8.140	3.161	0.1262	10	-0.88	17%	0
148.99	Total Sulfur, Other (10%)	0422	7.270*	0.2000	8.140	3.161	0.1262	10	-0.28	5%	0
148.99	Total Sulfur, Other (10%)	0482	10.40	0.2000	8.140	3.161	0.1262	10	0.71	14%	0
148.99	Total Sulfur, Other (10%)	0481	10.41	0.0100	8.140	3.161	0.1262	10	0.72	14%	0
148.99	Total Sulfur, Other (10%)	0072	10.46	0.0900	8.140	3.161	0.1262	10	0.73	14%	0
148.99	Total Sulfur, Other (10%)	0275	10.62	0.3700	8.140	3.161	0.1262	10	0.78	15%	0
148.99	Total Sulfur, Other (10%)	0220	11.60	0.0400	8.140	3.161	0.1262	10	1.09	21%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0368	9.061	0.0864	9.656	0.8405	0.0932	2	-0.71	3%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0423	10.25	0.1000	9.656	0.8405	0.0932	2	0.71	3%	0
151.00	Acid Soluble Arsenic , AA, test portion as i... (ppm)	0220	9.400	0.2000	9.750	0.4950	0.4000	2	-0.71	2%	0
151.00	Acid Soluble Arsenic , AA, test portion as i... (ppm)	0136	10.10	0.6000	9.750	0.4950	0.4000	2	0.71	2%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0368	6.862	0.7967	9.579	2.985	0.3987	8	-0.91	14%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0096	6.900	0.8000	9.579	2.985	0.3987	8	-0.90	14%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0394	7.655	0.0700	9.579	2.985	0.3987	8	-0.64	10%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0095	8.000	0.0000	9.579	2.985	0.3987	8	-0.53	8%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0102	10.22	0.1930	9.579	2.985	0.3987	8	0.21	3%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0230	10.59	1.230	9.579	2.985	0.3987	8	0.34	5%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0389	14.85	0.1000	9.579	2.985	0.3987	8	1.77	28%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0474	17.00	0.0000	9.579	2.985	0.3987	8	2.49	39%	0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0515	9.786	0.3210			0.3210	1			0
151.99	Acid Soluble Arsenic , Other (ppm)	0220	9.900	0.4000	10.66	0.6610	0.3767	3	-1.15	4%	0
151.99	Acid Soluble Arsenic , Other (ppm)	0481	11.00	0.4000	10.66	0.6610	0.3767	3	0.51	2%	0
151.99	Acid Soluble Arsenic , Other (ppm)	0498	11.09	0.3300	10.66	0.6610	0.3767	3	0.64	2%	0
165.00	Acid Soluble Boron , Spectrophotometric (%)	0055	1.044	0.0885			0.0885	1			0
165.30	Acid Soluble Boron , ICP, test portion in 98... (%)	0389	0.0155	0.0010	0.0195	0.0057	0.0030	2	-0.71	10%	0
165.30	Acid Soluble Boron , ICP, test portion in 98... (%)	0354	0.0235	0.0050	0.0195	0.0057	0.0030	2	0.71	10%	0
165.99	Acid Soluble Boron , Other (%)	0423	0.0035	0.0010	0.0084	0.0033	0.0003	4	-1.50	29%	0
165.99	Acid Soluble Boron , Other (%)	0421	0.0100	0.0000	0.0084	0.0033	0.0003	4	0.50	10%	0
165.99	Acid Soluble Boron , Other (%)	0472	0.0100	0.0000	0.0084	0.0033	0.0003	4	0.50	10%	0
165.99	Acid Soluble Boron , Other (%)	0482	0.0100	0.0000	0.0084	0.0033	0.0003	4	0.50	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				
181.00	Acid Soluble Cadmium , AA, test portion as i...	0136	3.750	0.1000			0.1000	1			0
181.30	Acid Soluble Cadmium , ICP (ppm)	0474	3.000	0.0000	3.621	0.4555	0.0927	8	-1.36	9%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0368	3.187	0.0902	3.621	0.4555	0.0927	8	-0.95	6%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0230	3.325	0.0700	3.621	0.4555	0.0927	8	-0.65	4%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0394	3.645	0.1300	3.621	0.4555	0.0927	8	0.05	0%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0096	3.750	0.1000	3.621	0.4555	0.0927	8	0.28	2%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0389	3.800	0.2000	3.621	0.4555	0.0927	8	0.39	2%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0102	3.869	0.0510	3.621	0.4555	0.0927	8	0.54	3%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0482	4.350	0.1000	3.621	0.4555	0.0927	8	1.60	10%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0095	3.500	1.000	3.621	0.4555	0.0927	8	-0.27	2%	1
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0515	3.456	0.0840			0.0840	1			0
181.99	Acid Soluble Cadmium , Other (ppm)	0506	2.900	0.2000	3.290	0.5351	0.1400	3	-0.73	6%	0
181.99	Acid Soluble Cadmium , Other (ppm)	0481	3.070	0.2200	3.290	0.5351	0.1400	3	-0.41	3%	0
181.99	Acid Soluble Cadmium , Other (ppm)	0220	3.900	0.0000	3.290	0.5351	0.1400	3	1.14	9%	0
190.00	Water Soluble Chlorine, Titrimetric (%)	0105	0.1350	0.0100	0.5703	0.6155	0.0505	2	-0.71	38%	0
190.00	Water Soluble Chlorine, Titrimetric (%)	0055	1.006	0.0910	0.5703	0.6155	0.0505	2	0.71	38%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0027	40.71	0.7890	67.92	3.360	1.427	9	-8.10	20%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0230	65.60	1.600	67.92	3.360	1.427	9	-0.69	2%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0368	65.76	0.3653	67.92	3.360	1.427	9	-0.64	2%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0394	67.05	0.3000	67.92	3.360	1.427	9	-0.26	1%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0096	67.55	2.500	67.92	3.360	1.427	9	-0.11	0%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0474	68.00	2.000	67.92	3.360	1.427	9	0.02	0%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0482	70.30	1.800	67.92	3.360	1.427	9	0.71	2%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0102	73.13	2.093	67.92	3.360	1.427	9	1.55	4%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0389	74.00	1.400	67.92	3.360	1.427	9	1.81	4%	0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C... (ppm)	0515	70.74	0.4210			0.4210	1			0
191.99	Acid Soluble Chromium , Other (ppm)	0506	57.50	1.000	68.28	8.446	2.050	4	-1.28	8%	0
191.99	Acid Soluble Chromium , Other (ppm)	0220	65.90	0.4000	68.28	8.446	2.050	4	-0.28	2%	0
191.99	Acid Soluble Chromium , Other (ppm)	0481	73.15	1.300	68.28	8.446	2.050	4	0.58	4%	0
191.99	Acid Soluble Chromium , Other (ppm)	0512	76.55	5.500	68.28	8.446	2.050	4	0.98	6%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0230	0.0003	0.0000	3.252	0.4129	0.0886	7	-7.88	50%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0389	3.050	0.3000	3.252	0.4129	0.0886	7	-0.49	3%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0368	3.068	0.0024	3.252	0.4129	0.0886	7	-0.45	3%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0096	3.185	0.1100	3.252	0.4129	0.0886	7	-0.16	1%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0102	3.409	0.1080	3.252	0.4129	0.0886	7	0.38	2%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0482	3.750	0.1000	3.252	0.4129	0.0886	7	1.21	8%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0474	4.000	0.0000	3.252	0.4129	0.0886	7	1.81	11%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0095	3.500	1.000	3.252	0.4129	0.0886	7	0.60	4%	1
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0515	3.209	0.0260			0.0260	1			0
202.99	Acid Soluble Cobalt , Other (ppm)	0220	2.700	0.0000	5.825	4.419	6.250	2	-0.71	27%	0
202.99	Acid Soluble Cobalt , Other (ppm)	0512	8.950	12.50	5.825	4.419	6.250	2	0.71	27%	0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (%)	0043	0.0007	0.0002			0.0002	1			0
221.30	Acid Soluble Copper , ICP, test portion inor... (%)	0096	0.0002	0.0000	0.0009	0.0012	0.0001	5	-0.57	39%	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				
221.30	Acid Soluble Copper , ICP, test portion inor... (%)	0230	0.0002	0.0000	0.0009	0.0012	0.0001	5	-0.57	39%	0
221.30	Acid Soluble Copper , ICP, test portion inor... (%)	0368	0.0002	0.0000	0.0009	0.0012	0.0001	5	-0.57	39%	0
221.30	Acid Soluble Copper , ICP, test portion inor... (%)	0433	0.0009	0.0003	0.0009	0.0012	0.0001	5	-0.03	2%	0
221.30	Acid Soluble Copper , ICP, test portion inor... (%)	0402	0.0030	0.0000	0.0009	0.0012	0.0001	5	1.74	119%	0
221.30	Acid Soluble Copper , ICP, test portion inor... (%)	0354	0.0015	0.0010	0.0009	0.0012	0.0001	5	0.50	34%	1
221.30	Acid Soluble Copper , ICP, test portion inor... (%)	0041	0.0000	0.0000	0.0009	0.0012	0.0001	5	-0.73	50%	4
221.30	Acid Soluble Copper , ICP, test portion inor... (%)	0055	0.0000	0.0000	0.0009	0.0012	0.0001	5	-0.73	50%	4
221.30	Acid Soluble Copper , ICP, test portion inor... (%)	0472	0.0000	0.0000	0.0009	0.0012	0.0001	5	-0.73	50%	4
221.32	Acid Soluble Copper , ICP, test portion 2006... (%)	0474	0.0002	0.0000	0.0074	0.0101	0.0005	2	-0.71	49%	0
221.32	Acid Soluble Copper , ICP, test portion 2006... (%)	0423	0.0145	0.0010	0.0074	0.0101	0.0005	2	0.71	49%	0
221.33	Acid Soluble Copper , ICP, test portion 2006... (%)	0515	0.0002	0.0000	0.0003	0.0001	0.0000	2	-0.71	10%	0
221.33	Acid Soluble Copper , ICP, test portion 2006... (%)	0394	0.0003	0.0000	0.0003	0.0001	0.0000	2	0.71	10%	0
221.33	Acid Soluble Copper , ICP, test portion 2006... (%)	0421	0.0000	0.0000	0.0003	0.0001	0.0000	2	-3.54	50%	4
221.99	Acid Soluble Copper , Other (%)	0389	0.0003	0.0000	0.0003	0.0001	0.0000	1	0.71	10%	0
221.99	Acid Soluble Copper , Other (%)	0512	0.0005	0.0010	0.0003	0.0001	0.0000	1	3.54	50%	4
241.00	Acid Soluble Iron , AA, inorganic 965.09 (0.9%)	0498	0.6600*	0.0000	0.9507	0.0381	0.0252	10	-7.63	15%	0
241.00	Acid Soluble Iron , AA, inorganic 965.09 (0.9%)	0481	0.8550*	0.0300	0.9507	0.0381	0.0252	10	-2.51	5%	0
241.00	Acid Soluble Iron , AA, inorganic 965.09 (0.9%)	0485	0.9285	0.0010	0.9507	0.0381	0.0252	10	-0.58	1%	0
241.00	Acid Soluble Iron , AA, inorganic 965.09 (0.9%)	0258	0.9385	0.0290	0.9507	0.0381	0.0252	10	-0.32	1%	0
241.00	Acid Soluble Iron , AA, inorganic 965.09 (0.9%)	0457	0.9510	0.0040	0.9507	0.0381	0.0252	10	0.01	0%	0
241.00	Acid Soluble Iron , AA, inorganic 965.09 (0.9%)	0040	0.9550	0.0500	0.9507	0.0381	0.0252	10	0.11	0%	0
241.00	Acid Soluble Iron , AA, inorganic 965.09 (0.9%)	0043	0.9700	0.0200	0.9507	0.0381	0.0252	10	0.51	1%	0
241.00	Acid Soluble Iron , AA, inorganic 965.09 (0.9%)	0513	0.9745	0.0110	0.9507	0.0381	0.0252	10	0.63	1%	0
241.00	Acid Soluble Iron , AA, inorganic 965.09 (0.9%)	0516	0.9813	0.0954	0.9507	0.0381	0.0252	10	0.80	2%	0
241.00	Acid Soluble Iron , AA, inorganic 965.09 (0.9%)	0029	1.031	0.0120	0.9507	0.0381	0.0252	10	2.11	4%	0
241.20	Acid Soluble Iron , Colormetric (0.9%)	0513	0.9725	0.0050			0.0050	1			0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0230	0.8590*	0.0220	0.9773	0.0415	0.0253	26	-2.85	6%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0474	0.9200	0.0200	0.9773	0.0415	0.0253	26	-1.38	3%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0027	0.9220	0.0420	0.9773	0.0415	0.0253	26	-1.33	3%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0095	0.9400	0.0000	0.9773	0.0415	0.0253	26	-0.90	2%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0433	0.9401	0.0037	0.9773	0.0415	0.0253	26	-0.90	2%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0157	0.9450	0.0120	0.9773	0.0415	0.0253	26	-0.78	2%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0394	0.9540	0.0181	0.9773	0.0415	0.0253	26	-0.56	1%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0234	0.9550	0.0300	0.9773	0.0415	0.0253	26	-0.54	1%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0402	0.9550	0.0100	0.9773	0.0415	0.0253	26	-0.54	1%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0102	0.9555	0.0290	0.9773	0.0415	0.0253	26	-0.52	1%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0233	0.9579	0.0043	0.9773	0.0415	0.0253	26	-0.47	1%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0444	0.9665	0.0470	0.9773	0.0415	0.0253	26	-0.26	1%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0324	0.9775	0.0350	0.9773	0.0415	0.0253	26	0.01	0%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0390	0.9795	0.0270	0.9773	0.0415	0.0253	26	0.05	0%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0368	0.9828	0.0066	0.9773	0.0415	0.0253	26	0.13	0%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0049	0.9850	0.0300	0.9773	0.0415	0.0253	26	0.19	0%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0371	0.9850	0.0100	0.9773	0.0415	0.0253	26	0.19	0%	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0231	0.9950	0.0100	0.9773	0.0415	0.0253	26	0.43	1%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0420	0.9970	0.0020	0.9773	0.0415	0.0253	26	0.48	1%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0055	1.006	0.0910	0.9773	0.0415	0.0253	26	0.68	1%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0354	1.010	0.0000	0.9773	0.0415	0.0253	26	0.79	2%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0472	1.015	0.0500	0.9773	0.0415	0.0253	26	0.91	2%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0482	1.040	0.0400	0.9773	0.0415	0.0253	26	1.51	3%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0041	1.042	0.0989	0.9773	0.0415	0.0253	26	1.55	3%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0483	1.065	0.0100	0.9773	0.0415	0.0253	26	2.11	4%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0291	1.085	0.0100	0.9773	0.0415	0.0253	26	2.59	6%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (0.9%)	0096	1.875	0.0300	0.9773	0.0415	0.0253	26	21.61	46%	2
241.32	Acid Soluble Iron , ICP, test portion 2006.03... (0.9%)	0025	0.9135	0.0110	0.9435	0.0424	0.0070	2	-0.71	2%	0
241.32	Acid Soluble Iron , ICP, test portion 2006.03... (0.9%)	0423	0.9735	0.0030	0.9435	0.0424	0.0070	2	0.71	2%	0
241.33	Acid Soluble Iron , ICP, test portion 2006.03... (0.9%)	0515	0.8872	0.0075	0.9304	0.0321	0.0156	4	-1.35	2%	0
241.33	Acid Soluble Iron , ICP, test portion 2006.03... (0.9%)	0486	0.9250	0.0100	0.9304	0.0321	0.0156	4	-0.17	0%	0
241.33	Acid Soluble Iron , ICP, test portion 2006.03... (0.9%)	0177	0.9546	0.0349	0.9304	0.0321	0.0156	4	0.75	1%	0
241.33	Acid Soluble Iron , ICP, test portion 2006.03... (0.9%)	0421	0.9550	0.0100	0.9304	0.0321	0.0156	4	0.77	1%	0
241.99	Acid Soluble Iron , Other (0.9%)	0506	0.9450	0.0100	1.090	0.2602	0.0200	4	-0.56	7%	0
241.99	Acid Soluble Iron , Other (0.9%)	0389	0.9650	0.0100	1.090	0.2602	0.0200	4	-0.48	6%	0
241.99	Acid Soluble Iron , Other (0.9%)	0042	0.9700	0.0000	1.090	0.2602	0.0200	4	-0.46	6%	0
241.99	Acid Soluble Iron , Other (0.9%)	0512	1.480	0.0600	1.090	0.2602	0.0200	4	1.50	18%	0
251.00	Acid Soluble Lead , AA, test portion as in 2... (ppm)	0136	2.000	0.0000			0.0000	1			0
251.30	Acid Soluble Lead , ICP (ppm)	0368	1.714	0.1944	2.233	0.5129	0.1278	7	-1.01	12%	0
251.30	Acid Soluble Lead , ICP (ppm)	0389	1.850	0.1000	2.233	0.5129	0.1278	7	-0.75	9%	0
251.30	Acid Soluble Lead , ICP (ppm)	0096	1.950	0.1000	2.233	0.5129	0.1278	7	-0.55	6%	0
251.30	Acid Soluble Lead , ICP (ppm)	0230	2.155	0.3300	2.233	0.5129	0.1278	7	-0.15	2%	0
251.30	Acid Soluble Lead , ICP (ppm)	0394	2.295	0.1700	2.233	0.5129	0.1278	7	0.12	1%	0
251.30	Acid Soluble Lead , ICP (ppm)	0095	3.000	0.0000	2.233	0.5129	0.1278	7	1.50	17%	0
251.30	Acid Soluble Lead , ICP (ppm)	0474	3.000	0.0000	2.233	0.5129	0.1278	7	1.50	17%	0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0515	0.0000	0.0000			0.0000	0			4
251.99	Acid Soluble Lead , Other (ppm)	0481	1.540	0.1000	33.80	45.62	6.800	2	-0.71	48%	0
251.99	Acid Soluble Lead , Other (ppm)	0512	66.05	13.50	33.80	45.62	6.800	2	0.71	48%	0
261.00	Acid Soluble Manganese , AA, Mn2+ only (%)	0043	0.0280	0.0000			0.0000	1			0
261.12	Acid Soluble Manganese , AA, inorganic 965.09 (%)	0457	0.0250	0.0020			0.0020	1			0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0096	0.0270	0.0002	0.0294	0.0013	0.0002	8	-1.83	4%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0102	0.0280	0.0000	0.0294	0.0013	0.0002	8	-1.08	2%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0354	0.0290	0.0000	0.0294	0.0013	0.0002	8	-0.33	1%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0420	0.0290	0.0000	0.0294	0.0013	0.0002	8	-0.33	1%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0472	0.0300	0.0000	0.0294	0.0013	0.0002	8	0.42	1%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0474	0.0302	0.0001	0.0294	0.0013	0.0002	8	0.53	1%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0390	0.0304	0.0003	0.0294	0.0013	0.0002	8	0.68	2%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0041	0.0317	0.0012	0.0294	0.0013	0.0002	8	1.70	4%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0394	0.4900	0.0180	0.0294	0.0013	0.0002	8	345.36	782%	2
261.31	Acid Soluble Manganese , ICP, test portion 9... (%)	0482	0.0300	0.0000			0.0000	1			0

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261.32	Acid Soluble Manganese , ICP, test portion i... (%)	0049	0.0260	0.0000			0.0000	1		0	
261.34	Acid Soluble Manganese , ICP, test portion 2... (%)	0423	0.0295	0.0010			0.0010	1		0	
261.35	Acid Soluble Manganese , ICP, test portion 2... (%)	0421	0.0300	0.0000			0.0000	1		0	
261.99	Acid Soluble Manganese , Other (%)	0389	0.0275	0.0010			0.0010	1		0	
281.00	Acid Soluble Mercury , AA (ppm)	0230	0.0012	0.0005	141.5	200.1	8.000	2	-0.71	50%	0
281.00	Acid Soluble Mercury , AA (ppm)	0506	283.0	16.00	141.5	200.1	8.000	2	0.71	50%	0
281.30	Acid Soluble Mercury , ICP (ppm)	0515	0.2855	0.0565			0.0565	1		0	
289.30	Acid Soluble Molybdenum , ICP (ppm)	0394	8.640	0.3000	10.55	1.322	0.3411	8	-1.44	9%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0230	9.235	0.1300	10.55	1.322	0.3411	8	-0.99	6%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0096	9.800	0.2000	10.55	1.322	0.3411	8	-0.56	4%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0474	10.35	0.1000	10.55	1.322	0.3411	8	-0.15	1%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0102	11.17	1.101	10.55	1.322	0.3411	8	0.47	3%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0433	11.45	0.8682	10.55	1.322	0.3411	8	0.68	4%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0368	11.53	0.0294	10.55	1.322	0.3411	8	0.74	5%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0095	12.00	0.0000	10.55	1.322	0.3411	8	1.10	7%	0
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (ppm)	0233	11.38	1.020			1.020	1		0	
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/601... (ppm)	0515	9.965	0.0100			0.0100	1		0	
289.99	Acid Soluble Molybdenum , Other (ppm)	0220	11.25	0.7000	12.53	1.803	1.250	2	-0.71	5%	0
289.99	Acid Soluble Molybdenum , Other (ppm)	0506	13.80	1.800	12.53	1.803	1.250	2	0.71	5%	0
291.00	Acid Soluble Nickel , AA, test portion as in... (ppm)	0136	17.00	0.0000			0.0000	1		0	
291.30	Acid Soluble Nickel , ICP (ppm)	0482	15.60	0.4000	16.37	0.8352	0.2373	8	-0.92	2%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0368	15.65	0.1386	16.37	0.8352	0.2373	8	-0.85	2%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0230	15.75	0.1000	16.37	0.8352	0.2373	8	-0.74	2%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0096	16.00	0.2000	16.37	0.8352	0.2373	8	-0.44	1%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0394	16.30	0.6000	16.37	0.8352	0.2373	8	-0.08	0%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0474	17.00	0.0000	16.37	0.8352	0.2373	8	0.76	2%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0102	17.31	0.4600	16.37	0.8352	0.2373	8	1.13	3%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0095	18.00	0.0000	16.37	0.8352	0.2373	8	1.96	5%	0
291.32	Acid Soluble Nickel , ICP, 2006.03 (ppm)	0233	18.90	0.7300			0.7300	1		0	
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0515	16.72	0.3360			0.3360	1		0	
291.99	Acid Soluble Nickel , Other (ppm)	0481	13.00	0.0000	14.64	1.215	0.2250	4	-1.35	6%	0
291.99	Acid Soluble Nickel , Other (ppm)	0512	14.45	0.1000	14.64	1.215	0.2250	4	-0.15	1%	0
291.99	Acid Soluble Nickel , Other (ppm)	0506	15.40	0.2000	14.64	1.215	0.2250	4	0.63	3%	0
291.99	Acid Soluble Nickel , Other (ppm)	0220	15.70	0.6000	14.64	1.215	0.2250	4	0.87	4%	0
301.30	Acid Soluble Selenium , ICP (ppm)	0230	0.0000	0.0000	14.64	1.215	0.0000	0	-12.05	50%	4
301.30	Acid Soluble Selenium , ICP (ppm)	0368	0.0000	0.0000	14.64	1.215	0.0000	0	-12.05	50%	4
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C... (ppm)	0515	0.0000	0.0000			0.0000	0		4	
311.30	Sodium, Flame Photometric (%)	0510	0.0900	0.0000			0.0000	1		0	
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0423	0.0200	0.0001	0.0827	0.0544	0.0020	3	-1.15	38%	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0474	0.1100	0.0000	0.0827	0.0544	0.0020	3	0.50	17%	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0102	0.1180	0.0060	0.0827	0.0544	0.0020	3	0.65	21%	0
311.99	Sodium, Other (%)	0482	0.1050	0.0100	0.1287	0.0290	0.0047	3	-0.82	9%	0
311.99	Sodium, Other (%)	0096	0.1200	0.0000	0.1287	0.0290	0.0047	3	-0.30	3%	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				
311.99	Sodium, Other (%)	0354	0.1610	0.0040	0.1287	0.0290	0.0047	3	1.12	13%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0029	0.9396	0.0021	1.017	0.0597	0.0225	11	-1.30	4%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0481	0.9550	0.0300	1.017	0.0597	0.0225	11	-1.04	3%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0169	0.9655	0.0010	1.017	0.0597	0.0225	11	-0.87	3%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0513	0.9900	0.0100	1.017	0.0597	0.0225	11	-0.46	1%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0258	1.019	0.0410	1.017	0.0597	0.0225	11	0.02	0%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0485	1.019	0.0430	1.017	0.0597	0.0225	11	0.02	0%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0040	1.023	0.0110	1.017	0.0597	0.0225	11	0.09	0%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0043	1.028	0.0050	1.017	0.0597	0.0225	11	0.17	1%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0457	1.072	0.0370	1.017	0.0597	0.0225	11	0.91	3%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0516	1.074	0.0172	1.017	0.0597	0.0225	11	0.96	3%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0428	1.755	0.0500	1.017	0.0597	0.0225	11	12.36	36%	0
321.01	Acid Soluble Zinc , AA, organic 965.09 (1%)	0498	1.060	0.0000			0.0000	1			0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0230	0.9155*	0.0270	1.043	0.0583	0.0231	31	-2.18	6%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0157	0.9450	0.0440	1.043	0.0583	0.0231	31	-1.67	5%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0474	0.9700	0.0200	1.043	0.0583	0.0231	31	-1.25	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0027	0.9805	0.0050	1.043	0.0583	0.0231	31	-1.07	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0482	0.9850	0.0300	1.043	0.0583	0.0231	31	-0.99	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0292	0.9900	0.0000	1.043	0.0583	0.0231	31	-0.90	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0420	0.9900	0.0180	1.043	0.0583	0.0231	31	-0.90	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0025	0.9950	0.0100	1.043	0.0583	0.0231	31	-0.82	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0072	1.000	0.0000	1.043	0.0583	0.0231	31	-0.73	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0402	1.020	0.0000	1.043	0.0583	0.0231	31	-0.39	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0394	1.023	0.0540	1.043	0.0583	0.0231	31	-0.34	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0234	1.030	0.0200	1.043	0.0583	0.0231	31	-0.22	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0307	1.032	0.0380	1.043	0.0583	0.0231	31	-0.18	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0233	1.038	0.0260	1.043	0.0583	0.0231	31	-0.08	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0472	1.040	0.0797	1.043	0.0583	0.0231	31	-0.04	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0055	1.044	0.0885	1.043	0.0583	0.0231	31	0.03	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0444	1.050	0.0410	1.043	0.0583	0.0231	31	0.12	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0390	1.050	0.0400	1.043	0.0583	0.0231	31	0.13	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0354	1.057	0.0050	1.043	0.0583	0.0231	31	0.24	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0433	1.057	0.0129	1.043	0.0583	0.0231	31	0.24	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0049	1.060	0.0000	1.043	0.0583	0.0231	31	0.30	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0095	1.060	0.0000	1.043	0.0583	0.0231	31	0.30	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0324	1.060	0.0600	1.043	0.0583	0.0231	31	0.30	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0291	1.080	0.0000	1.043	0.0583	0.0231	31	0.64	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0371	1.090	0.0000	1.043	0.0583	0.0231	31	0.81	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0368	1.096	0.0135	1.043	0.0583	0.0231	31	0.91	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0231	1.110	0.0200	1.043	0.0583	0.0231	31	1.15	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0096	1.117	0.0010	1.043	0.0583	0.0231	31	1.26	4%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0114	1.190	0.0200	1.043	0.0583	0.0231	31	2.52	7%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0483	1.195	0.0300	1.043	0.0583	0.0231	31	2.61	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				
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0041	1.212	0.0120	1.043	0.0583	0.0231	31	2.90	8%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (1%)	0102	1.169	0.1120	1.043	0.0583	0.0231	31	2.16	6%	1
321.32	Acid Soluble Zinc , ICP, test portion 2006.0... (1%)	0220	1.000	0.0200	1.148	0.2086	0.0150	2	-0.71	6%	0
321.32	Acid Soluble Zinc , ICP, test portion 2006.0... (1%)	0423	1.295	0.0100	1.148	0.2086	0.0150	2	0.71	6%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.0... (1%)	0177	1.002	0.0041	1.108	0.0734	0.0191	4	-1.44	5%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.0... (1%)	0421	1.115	0.0300	1.108	0.0734	0.0191	4	0.10	0%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.0... (1%)	0486	1.155	0.0100	1.108	0.0734	0.0191	4	0.64	2%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.0... (1%)	0515	1.159	0.0321	1.108	0.0734	0.0191	4	0.70	2%	0
321.99	Acid Soluble Zinc , Other (1%)	0512	1.045	0.1700	1.071	0.0189	0.0725	4	-1.39	1%	0
321.99	Acid Soluble Zinc , Other (1%)	0389	1.070	0.0200	1.071	0.0189	0.0725	4	-0.07	0%	0
321.99	Acid Soluble Zinc , Other (1%)	0042	1.085	0.0300	1.071	0.0189	0.0725	4	0.73	1%	0
321.99	Acid Soluble Zinc , Other (1%)	0506	1.085	0.0700	1.071	0.0189	0.0725	4	0.73	1%	0
325.00	Water Soluble Zinc , AA (%)	0513	0.6300	0.0040			0.0040	1			0
325.10	Water Soluble Zinc , Gravimetric (%)	0230	0.4650	0.0100			0.0100	1			0
325.30	Water Soluble Zinc , ICP (%)	0231	0.3400	0.0000	0.5790	0.2724	0.0489	5	-0.88	21%	0
325.30	Water Soluble Zinc , ICP (%)	0394	0.4985	0.0050	0.5790	0.2724	0.0489	5	-0.30	7%	0
325.30	Water Soluble Zinc , ICP (%)	0368	0.5017	0.0293	0.5790	0.2724	0.0489	5	-0.28	7%	0
325.30	Water Soluble Zinc , ICP (%)	0444	0.5050	0.0500	0.5790	0.2724	0.0489	5	-0.27	6%	0
325.30	Water Soluble Zinc , ICP (%)	0406	1.050	0.1600	0.5790	0.2724	0.0489	5	1.73	41%	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 reporting, 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.