

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Methods: 113

Sample # 180111

Statistical Summary

Labs Reporting: 87

Secondary & Micronutrients

Issue Date : 02/28/2018

Method Code	Analyte & Method Sample # 180111	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Method Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Method IA Ratio	Average Range (R-bar)	Honwitz %RSD
001.99	Ammoniacal Nitrogen, Other (%)	3	3	1.397	1.852	1.397		1.852	1.336	132.60%		0.0343	3.80%
002.99	Nitrate Nitrogen, Other (%)	1		0.0000									
010.12	Total Nitrogen, Salicylic (%)	1		13.00									
010.60	Total Nitrogen, Combustion (%)	9	9	0.5840	0.0581	0.5811	0.4900	0.0347	0.0145	5.97%	0.16	0.0126	4.34%
010.99	Total Nitrogen, Other (%)	1		0.5212									
020.20	Total Phosphorus as P2O5, Spectrophotometric Molyb	1		0.0900									
020.50	Total Phosphorus as P2O5, ICP (%)	5	4	0.0308	0.0299	0.0308		0.0299	0.0187	96.85%		0.0027	6.75%
020.99	Total Phosphorus as P2O5, Other (%)	1		0.0141									
041.50	Direct Available Phosphorus as P2O5, ICP (%)	1		0.1000									
041.51	Direct Available Phosphorus as P2O5, ICP, Citrate-...	1		0.0000									
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA ..	1		0.0925									
050.51	Soluble Potassium as K2O, ICP (Citrate) (%)	2	2	0.0500	0.0141								
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	2	2	0.0960	0.0085								
050.99	Soluble Potassium as K2O, Other (%)	5	5	0.0815	0.0193	0.0815	0.4100	0.0193	0.0108	23.65%	0.11	0.0056	5.83%
060.00	Water (Free), Vacuum Oven (%)	1		0.8450									
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 hours,...	2	2	1.865	1.393								
060.99	Water (Free), Other (%)	2	2	0.7564	0.2140								
101.00	Acid Soluble Calcium, AA, inorganic 965.09 (18%)	5	5	19.11	0.7036	19.11	1.0000	0.7036	0.3933	3.68%	1.64	0.6800	2.57%
101.30	Acid Soluble Calcium, ICP, test portion inorganic ... (18	26	25	18.80	3.158	18.96	1.0000	1.726	0.4316	9.10%	4.02	0.2746	2.57%
101.32	Acid Soluble Calcium, ICP, test portion 2006.03A-C...	3	3	19.49	0.4770	19.49	1.0000	0.4770	0.3442	2.45%	1.11	0.2457	2.56%
101.33	Acid Soluble Calcium, ICP, test portion 2006.03A-C...	13	13	18.42	2.465	18.83	1.0000	1.039	0.3602	5.52%	2.42	0.3484	2.57%
101.70	Acid Soluble Calcium, Titrimetric (18%)	6	6	17.60	2.008	18.23	1.0000	0.5793	0.2956	3.18%	1.35	0.0996	2.58%
101.99	Acid Soluble Calcium, Other (18%)	11	11	18.97	2.647	18.79	1.0000	1.245	0.4693	6.63%	2.90	0.1610	2.57%
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (%)	1		1.531									
121.30	Acid Soluble Magnesium, ICP, test portion inorgani...	6	5	0.1089	0.0034	0.1089	0.2054	0.0034	0.0019	3.09%	0.04	0.0022	5.58%
121.32	Acid Soluble Magnesium, ICP, test portion 2006.03A...	2	2	0.1020	0.0021								
121.33	Acid Soluble Magnesium, ICP, test portion 2006.03A...	4	4	0.8333	1.431	0.8333	0.2417	1.431	0.8944	171.75%	13.80	0.0950	4.11%
121.99	Acid Soluble Magnesium, Other (%)	3	3	0.1011	0.0016	0.1011	0.2051	0.0016	0.0012	1.61%	0.02	0.0037	5.65%
143.99	Elemental Sulfur, Other (%)	4	4	15.97	0.9886	15.97		0.9886	0.6179	6.19%		0.2668	2.64%
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulfur - ... (%)	8	8	15.61	1.109	15.80		0.7711	0.3408	4.88%		0.1225	2.64%
145.99	Sulfate Sulfur, HCl soluble, Other (%)	3	3	15.84	0.2877	15.84		0.2877	0.2076	1.82%		0.3000	2.64%

Method Code	Analyte & Method Sample # 180111	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Method Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Method IA Ratio	Average Range (R-bar)	Howitz %RSD
148.00	Total Sulfur, Combustion (16%)	7	7	15.92	1.558	16.36	1.0000	0.5448	0.2574	3.33%	1.27	0.3186	2.63%
148.01	Total Sulfur, Gravimetric - sulfate and elemental...	16	15	16.39	0.8685	16.45	1.0000	0.6354	0.2051	3.86%	1.48	0.1839	2.62%
148.07	Total Sulfur, ICP, test portion as in 2006.03 modi...	16	11	16.48	2.521	16.64	1.0000	1.288	0.4855	7.74%	3.00	0.4077	2.62%
148.99	Total Sulfur, Other (16%)	15	14	16.00	1.597	16.26	1.0000	0.9753	0.3258	6.00%	2.27	0.1850	2.63%
149.04	Sulfur - HNO3 soluble, ICP (%)	5	5	15.82	0.2681	15.82		0.2681	0.1499	1.69%		0.1104	2.64%
151.00	Acid Soluble Arsenic , AA, test portion as in 2006...	1		1.200									
151.30	Acid Soluble Arsenic , ICP (ppm)	8	7	2.324	2.155	1.813		1.074	0.5074	59.24%		0.0813	14.63%
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified w/9:3...	3	3	2.855	1.324	2.855		1.324	0.9555	46.37%		1.781	13.66%
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	2	1	4.750									
151.99	Acid Soluble Arsenic , Other (ppm)	3	3	1.266	0.4406	1.266		0.4406	0.3179	34.80%		0.0628	15.44%
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	11	10	0.4985	0.0644	0.4877	0.0762	0.0430	0.0170	8.81%	1.31	0.0136	4.46%
165.30	Acid Soluble Boron , ICP, test portion in 982.01 (0.5%)	17	17	0.5210	0.0409	0.5186	0.0808	0.0404	0.0122	7.79%	1.16	0.0119	4.42%
165.99	Acid Soluble Boron , Other (0.5%)	25	25	0.5075	0.0555	0.5040	0.0786	0.0384	0.0096	7.62%	1.14	0.0101	4.43%
171.00	Water Soluble Boron , AA, JAOAC 52.950 (%)	1		0.4700									
171.10	Water Soluble Boron , Spectrophotometric (%)	9	9	0.4222	0.0833	0.4222		0.0944	0.0393	22.36%		0.0200	4.55%
171.99	Water Soluble Boron , Other (%)	2	2	0.3975	0.1450								
181.00	Acid Soluble Cadmium , AA, test portion as in 2006...	1		0.4000									
181.30	Acid Soluble Cadmium , ICP (ppm)	9	7	0.3204	0.0843	0.3204		0.0956	0.0452	29.83%		0.0213	18.99%
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified w/9:3..	3	2	0.2985	0.0043	0.2985		0.0043	0.0038	1.43%		0.0546	19.19%
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	3	3	0.4142	0.1686	0.4142		0.1686	0.1217	40.72%		0.2703	18.27%
181.99	Acid Soluble Cadmium , Other (ppm)	3	3	0.2147	0.0450	0.2147		0.0450	0.0325	20.96%		0.0433	20.17%
190.99	Water Soluble Chlorine, Other (%)	1		0.1770									
191.30	Acid Soluble Chromium , ICP (ppm)	13	13	13.06	5.327	13.54		4.794	1.662	35.40%		0.8104	10.81%
191.32	Acid Soluble Chromium , ICP, 2006.03 (ppm)	1		24.82									
191.33	Acid Soluble Chromium , ICP, 2006.03 modified w/9:...	5	5	23.60	2.728	23.60		2.728	1.525	11.56%		1.458	9.94%
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppn	3	3	16.23	0.5686	16.23		0.5686	0.4104	3.50%		0.8790	10.52%
191.99	Acid Soluble Chromium , Other (ppm)	3	3	14.45	5.851	14.45		5.851	4.222	40.48%		0.0090	10.70%
202.30	Acid Soluble Cobalt , ICP (ppm)	10	10	1.613	0.6017	1.613	1.4839	0.6824	0.2697	42.31%	1.07	0.1101	14.89%
202.32	Acid Soluble Cobalt , ICP, 2006.03 (ppm)	2	2	2.554	0.6201								
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w/9:3 ... (p	5	5	2.927	1.467	2.927	1.8780	1.467	0.8201	50.12%	1.82	1.491	13.61%
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	3	3	1.745	0.3468	1.745	1.5234	0.3468	0.2503	19.88%	0.53	0.1403	14.71%
202.99	Acid Soluble Cobalt , Other (ppm)	4	4	1.781	0.8513	1.781	1.5343	0.8513	0.5320	47.80%	1.29	0.0526	14.67%
221.03	Acid Soluble Copper , AA, 965.09, test portion 200... (c	1		4.610									
221.30	Acid Soluble Copper , ICP, test portion inorganic ... (%)	10	5	0.0009	0.0010	0.0009	0.0051	0.0010	0.0006	107.50%	0.46	0.0001	11.44%
221.32	Acid Soluble Copper , ICP, test portion 2006.03A-C (%)	3	3	0.2626	0.4507	0.2626	0.0313	0.4507	0.3253	171.66%	33.60	0.0817	4.89%
221.33	Acid Soluble Copper , ICP, test portion 2006.03A-C...	3	3	0.0006	0.0005	0.0006	0.0051	0.0005	0.0003	81.51%	0.21	0.0003	12.32%
221.99	Acid Soluble Copper , Other (%)	7	7	0.0017	0.0037	0.0003	0.0050	0.0001	0.0001	41.56%	0.06	0.0000	13.43%
241.30	Acid Soluble Iron, ICP, test portion inorganic 965... (%)	6	5	0.0670	0.0073	0.0670	0.0117	0.0073	0.0041	10.95%	1.46	0.0022	6.01%
241.32	Acid Soluble Iron, ICP, test portion 2006.03A-C (%)	2	2	0.0671	0.0105								
241.33	Acid Soluble Iron, ICP, test portion 2006.03A-C, w...	4	4	0.0796	0.0029	0.0796	0.0130	0.0029	0.0018	3.60%	0.52	0.0026	5.85%
241.99	Acid Soluble Iron, Other (%)	4	4	0.0781	0.0184	0.0781	0.0128	0.0184	0.0115	23.53%	3.34	0.0038	5.87%
251.00	Acid Soluble Lead , AA, test portion as in 2006.03... (p	1		2.500									

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251.30	Acid Soluble Lead , ICP (ppm)	8	7	2.717	3.425	1.652		0.8634	0.4079	52.26%		0.1881	14.83%
251.32	Acid Soluble Lead , ICP, 2006.03 (ppm)	1		2.775									
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9:3 HN...	3	2	1.125	0.0331	1.125		0.0331	0.0293	2.94%		0.0376	15.72%
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	3	2	1.370	0.0424	1.370		0.0424	0.0375	3.10%		0.4400	15.26%
251.99	Acid Soluble Lead , Other (ppm)	3	3	1.282	0.2418	1.282		0.2418	0.1745	18.86%		0.2437	15.41%
261.30	Acid Soluble Manganese , ICP, test portion 972.02a (%)	3	3	17.72	30.68	17.72	1.0000	30.68	22.14	173.15%	71.49	0.7004	2.59%
261.31	Acid Soluble Manganese , ICP, test portion 972.02b (%)	2	1	0.0100									
261.34	Acid Soluble Manganese , ICP, test portion 2006.03...	2	2	0.0052	0.0012								
261.35	Acid Soluble Manganese , ICP, test portion 2006.03...	4	3	0.0052	0.0002	0.0052	0.0055	0.0002	0.0001	2.96%	0.06	0.0001	8.83%
261.99	Acid Soluble Manganese , Other (%)	3	3	0.0049	0.0011	0.0049	0.0055	0.0011	0.0008	22.75%	0.47	0.0004	8.92%
281.00	Acid Soluble Mercury , AA (ppm)	2	2	0.2003	0.0528								
281.30	Acid Soluble Mercury , ICP (ppm)	3	2	0.5270	0.3005	0.5270		0.3005	0.2656	57.02%		0.0990	17.62%
281.99	Acid Soluble Mercury , Other (ppm)	2	2	0.2517	0.2993								
289.30	Acid Soluble Molybdenum , ICP (ppm)	11	9	5.907	11.70	2.199	1.6596	0.9801	0.4084	44.58%	1.38	0.2303	14.21%
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (ppm)	1		1.377									
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modified w/...	4	3	1.529	0.1338	1.529	1.4587	0.1338	0.0966	8.75%	0.21	0.0220	15.01%
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010C (p	3	3	8.781	13.09	8.781	3.6342	13.09	9.450	149.12%	8.39	0.8020	11.54%
289.99	Acid Soluble Molybdenum , Other (ppm)	2	2	3.325	3.146								
291.00	Acid Soluble Nickel , AA, test portion as in 2006.... (pp	1		5.200									
291.30	Acid Soluble Nickel , ICP (ppm)	12	12	4.741	1.131	4.560		0.7137	0.2575	15.65%		0.8701	12.73%
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w/9:3 ... (p	5	5	5.003	0.1418	5.003		0.1418	0.0792	2.83%		0.0923	12.55%
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	3	3	4.633	1.329	4.633		1.329	0.9592	28.69%		3.479	12.70%
291.99	Acid Soluble Nickel , Other (ppm)	4	4	4.747	0.7131	4.747		0.7131	0.4457	15.02%		0.5336	12.65%
301.30	Acid Soluble Selenium , ICP (ppm)	4	2	0.8400	0.4384	0.8400		0.4384	0.3875	52.19%		0.0600	16.42%
301.32	Acid Soluble Selenium , ICP, 2006.03 (ppm)	1		2.875									
301.33	Acid Soluble Selenium , ICP, 2006.03 modified w/9:...	2	1	1.296									
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm	2	1	3.248									
301.99	Acid Soluble Selenium , Other (ppm)	4	4	1.369	0.3671	1.369		0.3671	0.2294	26.81%		0.2323	15.26%
311.32	Sodium, ICP, 2006.03 test portion (%)	2	2	0.3111	0.0147								
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl test .	4	4	0.2664	0.1566	0.2664	0.0316	0.1566	0.0979	58.79%	11.53	0.0233	4.88%
311.99	Sodium, Other (%)	4	4	0.3368	0.0039	0.3368	0.0387	0.0039	0.0025	1.17%	0.24	0.0110	4.71%
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1.5%)	10	10	1.563	0.2031	1.512	0.1562	0.0676	0.0267	4.47%	1.01	0.0200	3.76%
321.30	Acid Soluble Zinc , ICP, test portion inorganic 96... (1.5	23	22	1.513	0.0981	1.511	0.1561	0.0706	0.0188	4.67%	1.05	0.0321	3.76%
321.32	Acid Soluble Zinc , ICP, test portion 2006.03A-C ... (1.	5	5	1.353	0.4660	1.353	0.1403	0.4660	0.2605	34.44%	7.74	0.0132	3.82%
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, ... (1.	14	13	1.549	0.0609	1.548	0.1598	0.0670	0.0232	4.33%	0.98	0.0321	3.75%
321.99	Acid Soluble Zinc , Other (1.5%)	13	12	1.435	0.2824	1.465	0.1515	0.2299	0.0830	15.69%	3.54	0.0377	3.78%
325.00	Water Soluble Zinc , AA (%)	7	7	1.471	0.0441	1.471		0.0494	0.0233	3.36%		0.0271	3.77%
325.10	Water Soluble Zinc , Gravimetric (%)	1		1.550									
325.30	Water Soluble Zinc , ICP (%)	4	4	1.260	0.1343	1.260		0.1343	0.0839	10.66%		0.0275	3.86%
325.99	Water Soluble Zinc , Other (%)	1		1.375									

The Method IA Ratio = 2.33 * Robust SD / IA at the Method Assigned Value. IA ratios of 1 and less indicate participant data dispersion is as good or less than the IA. Red indicates the IA ratio is significantly greater than 1, Orange indicates marginally greater than 1, Green indicates IA ratio is not significantly greater than 1 and Grey indicates < 6 labs reporting.

Howitz %RSD
Average Range (R-bar)
Method IA Ratio
Robust % RSD
Robust Uncertainty (U)
Robust sd
IA at Method Value
Assigned Value Robust Mean
Raw SD
Raw Mean
Tests in Robust Calculations
Tests Submitted
Analyte & Method Sample # 180111
Method Code

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 180111

Method Precision Report

Secondary & Micronutrients

Issue Date : 02/28/2018

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
010.60	Total Nitrogen, Combustion (%)	9	8	0.5689	0.0387	0.0381	0.0094	0.0393	6.71%	1.65%	6.91%	4.186
101.30	Acid Soluble Calcium, ICP, test portion inorganic 965.09 (18%)	26	22	18.95	1.480	1.471	0.2217	1.488	7.77%	1.17%	7.85%	6.713
101.33	Acid Soluble Calcium, ICP, test portion 2006.03A-C, w/dual acid (18%)	13	11	19.08	1.072	1.051	0.3016	1.093	5.51%	1.58%	5.73%	3.625
101.99	Acid Soluble Calcium, Other (18%)	11	10	18.32	1.654	1.648	0.1931	1.660	8.99%	1.05%	9.06%	8.593
148.01	Total Sulfur, Gravimetric - sulfate and elemental (16%)	16	14	16.56	0.6090	0.5930	0.1958	0.6245	3.58%	1.18%	3.77%	3.190
148.07	Total Sulfur, ICP, test portion as in 2006.03 modified w/9:3 HNO3:HCl (16%)	12	10	17.09	1.613	1.588	0.4031	1.638	9.29%	2.36%	9.59%	4.064
148.99	Total Sulfur, Other (16%)	15	13	16.37	0.7805	0.7708	0.1743	0.7902	4.71%	1.06%	4.83%	4.534
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	11	9	0.4806	0.0322	0.0314	0.0102	0.0330	6.53%	2.13%	6.87%	3.233
165.30	Acid Soluble Boron , ICP, test portion in 982.01 (0.5%)	17	14	0.5157	0.0310	0.0306	0.0072	0.0314	5.94%	1.39%	6.10%	4.378
165.99	Acid Soluble Boron , Other (0.5%)	25	23	0.5001	0.0408	0.0403	0.0092	0.0413	8.06%	1.83%	8.27%	4.508
171.10	Water Soluble Boron , Spectrophotometric (%)	9	9	0.4222	0.0833	0.0823	0.0176	0.0842	19.50%	4.18%	19.94%	4.773
191.30	Acid Soluble Chromium , ICP (ppm)	13	11	13.98	3.936	3.900	0.7479	3.971	27.90%	5.35%	28.41%	5.310
202.30	Acid Soluble Cobalt , ICP (ppm)	10	9	1.705	0.5587	0.5562	0.0750	0.5612	32.62%	4.40%	32.92%	7.482
291.30	Acid Soluble Nickel , ICP (ppm)	12	10	4.324	0.4735	0.4110	0.3326	0.5287	9.50%	7.69%	12.23%	1.590
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1.5%)	10	9	1.501	0.0507	0.0491	0.0180	0.0523	3.27%	1.20%	3.48%	2.902
321.30	Acid Soluble Zinc , ICP, test portion inorganic 965.09 (1.5%)	23	20	1.523	0.0863	0.0848	0.0227	0.0878	5.57%	1.49%	5.76%	3.870
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, w/dual acid (1.5%)	14	12	1.540	0.0551	0.0526	0.0230	0.0574	3.42%	1.49%	3.73%	2.500
321.99	Acid Soluble Zinc , Other (1.5%)	13	11	1.499	0.1838	0.1825	0.0312	0.1851	12.18%	2.08%	12.35%	5.936

Notes: Precision data calculated when 8 or more Tests included.

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Methods: 113

Sample # 180111

Lab Values

Labs Reporting: 87

Secondary & Micronutrients

Issue Date : 02/28/2018

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001.99	Ammoniacal Nitrogen, Other (%)	0096	0.3050	0.0500	1.397	1.852	0.0343	3	-0.59		0
001.99	Ammoniacal Nitrogen, Other (%)	0511	0.3500	0.0000	1.397	1.852	0.0343	3	-0.57		0
001.99	Ammoniacal Nitrogen, Other (%)	0524	3.535	0.0530	1.397	1.852	0.0343	3	1.15		0
002.99	Nitrate Nitrogen, Other (%)	0511	0.0000	0.0000				0			4
010.12	Total Nitrogen, Salicylic (%)	0117	13.00	0.2000				1			0
010.60	Total Nitrogen, Combustion (%)	0521	0.4835	0.0000	0.5811	0.0347	0.0126	9	-2.60	OK	0
010.60	Total Nitrogen, Combustion (%)	0325	0.5650	0.0300	0.5811	0.0347	0.0126	9	-0.43	OK	0
010.60	Total Nitrogen, Combustion (%)	0389	0.5700	0.0000	0.5811	0.0347	0.0126	9	-0.29	OK	0
010.60	Total Nitrogen, Combustion (%)	0292	0.5700	0.0200	0.5811	0.0347	0.0126	9	-0.29	OK	0
010.60	Total Nitrogen, Combustion (%)	0354	0.5710	0.0000	0.5811	0.0347	0.0126	9	-0.27	OK	0
010.60	Total Nitrogen, Combustion (%)	0482	0.5850	0.0100	0.5811	0.0347	0.0126	9	0.10	OK	0
010.60	Total Nitrogen, Combustion (%)	0483	0.5865	0.0030	0.5811	0.0347	0.0126	9	0.14	OK	0
010.60	Total Nitrogen, Combustion (%)	0511	0.6200	0.0000	0.5811	0.0347	0.0126	9	1.04	OK	0
010.60	Total Nitrogen, Combustion (%)	0096	0.7050	0.0500	0.5811	0.0347	0.0126	9	3.30	OK	0
010.99	Total Nitrogen, Other (%)	0524	0.5212	0.0030				1			0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0292	0.0900	0.0000				1			0
020.50	Total Phosphorus as P2O5, ICP (%)	0389	0.0100	0.0000	0.0308	0.0299	0.0027	4	-0.70		0
020.50	Total Phosphorus as P2O5, ICP (%)	0524	0.0163	0.0006	0.0308	0.0299	0.0027	4	-0.49		0
020.50	Total Phosphorus as P2O5, ICP (%)	0521	0.0220	0.0000	0.0308	0.0299	0.0027	4	-0.30		0
020.50	Total Phosphorus as P2O5, ICP (%)	0483	0.0750	0.0100	0.0308	0.0299	0.0027	4	1.48		0
020.50	Total Phosphorus as P2O5, ICP (%)	0511	0.0000	0.0000	0.0308	0.0299	0.0027	4			4
020.99	Total Phosphorus as P2O5, Other (%)	0515	0.0141	0.0025				1			0
041.50	Direct Available Phosphorus as P2O5, ICP (%)	0325	0.1000	0.0000				1			0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (%)	0511	0.0000	0.0000				0			4
041.60	Direct Available Phosphorus as P2O5, Citrate-... (%)	0354	0.0925	0.0030				1			0
050.51	Soluble Potassium as K2O, ICP (Citrate) (%)	0511	0.0400	0.0000				2			0
050.51	Soluble Potassium as K2O, ICP (Citrate) (%)	0483	0.0600	0.0200				2			0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	0354	0.0900	0.0180				2			0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	0423	0.1020	0.0060				2			0
050.99	Soluble Potassium as K2O, Other (%)	0389	0.0605	0.0010	0.0815	0.0193	0.0056	5	-1.09		0
050.99	Soluble Potassium as K2O, Other (%)	0482	0.0700	0.0200	0.0815	0.0193	0.0056	5	-0.60		0
050.99	Soluble Potassium as K2O, Other (%)	0524	0.0732	0.0069	0.0815	0.0193	0.0056	5	-0.43		0
050.99	Soluble Potassium as K2O, Other (%)	0325	0.1000	0.0000	0.0815	0.0193	0.0056	5	0.96		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
050.99	Soluble Potassium as K2O, Other (%)	0521	0.1039	0.0000	0.0815	0.0193	0.0056	5	1.16		0
060.00	Water (Free), Vacuum Oven (%)	0096	0.8450	0.1500				1			0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0518	0.8800	0.0600				2			0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0055	2.850	1.500				2			0
060.99	Water (Free), Other (%)	0055	0.6050	0.0100				2			0
060.99	Water (Free), Other (%)	0510	0.9077	0.0116				2			0
101.00	Acid Soluble Calcium, AA, inorganic 965.09 (18%)	0307	18.34	0.8500	19.11	0.7036	0.6800	5	-1.10		0
101.00	Acid Soluble Calcium, AA, inorganic 965.09 (18%)	0534	18.47	0.5400	19.11	0.7036	0.6800	5	-0.91		0
101.00	Acid Soluble Calcium, AA, inorganic 965.09 (18%)	0157	19.15	0.9000	19.11	0.7036	0.6800	5	0.06		0
101.00	Acid Soluble Calcium, AA, inorganic 965.09 (18%)	0029	19.69	0.3000	19.11	0.7036	0.6800	5	0.82		0
101.00	Acid Soluble Calcium, AA, inorganic 965.09 (18%)	0040	19.91	0.8100	19.11	0.7036	0.6800	5	1.13		0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0542	7.373	1.495	18.96	1.726	0.2746	25	-6.71	Low	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0035	15.95	0.1000	18.96	1.726	0.2746	25	-1.74	Low	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0511	16.54	0.0000	18.96	1.726	0.2746	25	-1.40	Low	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0482	17.10	0.6000	18.96	1.726	0.2746	25	-1.08	Low	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0230	17.45	0.1000	18.96	1.726	0.2746	25	-0.88	Low	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0073	17.92	0.8800	18.96	1.726	0.2746	25	-0.60	Low	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0324	18.05	0.1000	18.96	1.726	0.2746	25	-0.53	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0102	18.13	0.0987	18.96	1.726	0.2746	25	-0.48	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0354	18.72	0.0620	18.96	1.726	0.2746	25	-0.14	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0377	18.74	0.0000	18.96	1.726	0.2746	25	-0.13	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0096	18.76	0.0800	18.96	1.726	0.2746	25	-0.12	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0157	18.90	0.0000	18.96	1.726	0.2746	25	-0.04	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0405	18.90	0.0000	18.96	1.726	0.2746	25	-0.04	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0486	19.04	0.0500	18.96	1.726	0.2746	25	0.04	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0472	19.07	0.1900	18.96	1.726	0.2746	25	0.06	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0231	19.08	0.0500	18.96	1.726	0.2746	25	0.07	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0255	19.17	1.269	18.96	1.726	0.2746	25	0.12	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0444	19.69	0.2100	18.96	1.726	0.2746	25	0.42	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0402	19.93	0.1200	18.96	1.726	0.2746	25	0.56	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0234	20.61	0.1300	18.96	1.726	0.2746	25	0.95	High	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0452	20.71	0.1700	18.96	1.726	0.2746	25	1.01	High	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0325	20.80	0.2000	18.96	1.726	0.2746	25	1.06	High	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0433	20.91	0.0200	18.96	1.726	0.2746	25	1.13	High	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0451	21.82	0.8900	18.96	1.726	0.2746	25	1.65	High	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0541	26.69	0.0500	18.96	1.726	0.2746	25	4.47	High	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (18%)	0483	21.95	2.300	18.96	1.726	0.2746	25	1.73	High	1
101.32	Acid Soluble Calcium, ICP, test portion 2006... (18%)	0547	19.13	0.7300	19.49	0.4770	0.2457	3	-0.76		0
101.32	Acid Soluble Calcium, ICP, test portion 2006... (18%)	0521	19.31	0.0000	19.49	0.4770	0.2457	3	-0.38		0
101.32	Acid Soluble Calcium, ICP, test portion 2006... (18%)	0423	20.03	0.0070	19.49	0.4770	0.2457	3	1.13		0
101.33	Acid Soluble Calcium, ICP, test portion 2006... (18%)	0494	10.90	0.3446	18.83	1.039	0.3484	13	-7.63	Low	0
101.33	Acid Soluble Calcium, ICP, test portion 2006... (18%)	0527	18.03	0.0050	18.83	1.039	0.3484	13	-0.77	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006... (18%)	0136	18.27	0.0600	18.83	1.039	0.3484	13	-0.54	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
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101.33	Acid Soluble Calcium, ICP, test portion 2006.... (18%)	0025	18.29	1.240	18.83	1.039	0.3484	13	-0.52	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (18%)	0037	18.36	0.3340	18.83	1.039	0.3484	13	-0.45	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (18%)	0177	18.36	0.0520	18.83	1.039	0.3484	13	-0.45	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (18%)	0023	18.67	1.518	18.83	1.039	0.3484	13	-0.15	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (18%)	0117	18.69	0.5300	18.83	1.039	0.3484	13	-0.14	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (18%)	0034	19.08	0.0100	18.83	1.039	0.3484	13	0.24	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (18%)	0055	19.19	0.0200	18.83	1.039	0.3484	13	0.35	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (18%)	0292	19.84	0.1800	18.83	1.039	0.3484	13	0.97	High	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (18%)	0421	20.34	0.0700	18.83	1.039	0.3484	13	1.45	High	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (18%)	0546	21.48	0.1660	18.83	1.039	0.3484	13	2.55	High	0
101.70	Acid Soluble Calcium, Titrimetric (18%)	0510	13.54	0.0278	18.23	0.5793	0.0996	6	-7.22	Low	0
101.70	Acid Soluble Calcium, Titrimetric (18%)	0544	18.18	0.2600	18.23	0.5793	0.0996	6	-0.08	OK	0
101.70	Acid Soluble Calcium, Titrimetric (18%)	0522	18.21	0.0100	18.23	0.5793	0.0996	6	-0.04	OK	0
101.70	Acid Soluble Calcium, Titrimetric (18%)	0493	18.30	0.1000	18.23	0.5793	0.0996	6	0.10	OK	0
101.70	Acid Soluble Calcium, Titrimetric (18%)	0476	18.40	0.1795	18.23	0.5793	0.0996	6	0.26	OK	0
101.70	Acid Soluble Calcium, Titrimetric (18%)	0500	18.95	0.0200	18.23	0.5793	0.0996	6	1.10	OK	0
101.99	Acid Soluble Calcium, Other (18%)	0476	14.13	0.5312	18.79	1.245	0.1610	11	-3.50	Low	0
101.99	Acid Soluble Calcium, Other (18%)	0501	18.00	0.0000	18.79	1.245	0.1610	11	-0.59	OK	0
101.99	Acid Soluble Calcium, Other (18%)	0508	18.08	0.0600	18.79	1.245	0.1610	11	-0.53	OK	0
101.99	Acid Soluble Calcium, Other (18%)	0519	18.16	0.0900	18.79	1.245	0.1610	11	-0.48	OK	0
101.99	Acid Soluble Calcium, Other (18%)	0523	18.20	0.6000	18.79	1.245	0.1610	11	-0.44	OK	0
101.99	Acid Soluble Calcium, Other (18%)	0368	18.78	0.1094	18.79	1.245	0.1610	11	-0.01	OK	0
101.99	Acid Soluble Calcium, Other (18%)	0389	18.82	0.0400	18.79	1.245	0.1610	11	0.02	OK	0
101.99	Acid Soluble Calcium, Other (18%)	0042	19.04	0.2800	18.79	1.245	0.1610	11	0.19	OK	0
101.99	Acid Soluble Calcium, Other (18%)	0371	19.75	0.0000	18.79	1.245	0.1610	11	0.72	OK	0
101.99	Acid Soluble Calcium, Other (18%)	0291	20.29	0.0100	18.79	1.245	0.1610	11	1.12	High	0
101.99	Acid Soluble Calcium, Other (18%)	0489	25.40	0.0500	18.79	1.245	0.1610	11	4.96	High	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (%)	0516	1.531	0.0334				1			0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0035	0.1030	0.0060	0.1089	0.0034	0.0022	5	-1.53		0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0096	0.1100	0.0000	0.1089	0.0034	0.0022	5	0.29		0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0482	0.1100	0.0000	0.1089	0.0034	0.0022	5	0.29		0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0511	0.1100	0.0000	0.1089	0.0034	0.0022	5	0.29		0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0354	0.1115	0.0050	0.1089	0.0034	0.0022	5	0.68		0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0483	0.1495	0.0370	0.1089	0.0034	0.0022	5	10.54		1
121.32	Acid Soluble Magnesium, ICP, test portion 200... (%)	0423	0.1005	0.0110				2			0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (%)	0521	0.1034	0.0000				2			0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0117	0.1129	0.0005	0.8333	1.431	0.0950	4	-0.50		0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0494	0.1183	0.0020	0.8333	1.431	0.0950	4	-0.50		0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0527	0.1220	0.0020	0.8333	1.431	0.0950	4	-0.50		0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0515	2.980	0.3755	0.8333	1.431	0.0950	4	1.50		0
121.99	Acid Soluble Magnesium, Other (%)	0515	0.0998	0.0034	0.1011	0.0016	0.0037	3	-0.78		0
121.99	Acid Soluble Magnesium, Other (%)	0389	0.1005	0.0010	0.1011	0.0016	0.0037	3	-0.35		0
121.99	Acid Soluble Magnesium, Other (%)	0524	0.1029	0.0066	0.1011	0.0016	0.0037	3	1.13		0

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			Value	Range	Rob Mean	Rob SD	R-bar				
143.99	Elemental Sulfur, Other (%)	0472	15.07	0.1400	15.97	0.9886	0.2668	4	-0.91		0
143.99	Elemental Sulfur, Other (%)	0255	15.17	0.8970	15.97	0.9886	0.2668	4	-0.81		0
143.99	Elemental Sulfur, Other (%)	0291	16.75	0.0100	15.97	0.9886	0.2668	4	0.78		0
143.99	Elemental Sulfur, Other (%)	0389	16.91	0.0200	15.97	0.9886	0.2668	4	0.95		0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0544	13.16	0.1700	15.80	0.7711	0.1225	8	-3.14	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0511	14.93	0.0000	15.80	0.7711	0.1225	8	-1.03	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0522	15.72	0.0300	15.80	0.7711	0.1225	8	-0.10	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0095	16.03	0.0200	15.80	0.7711	0.1225	8	0.27	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0220	16.05	0.0200	15.80	0.7711	0.1225	8	0.30	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0444	16.07	0.2400	15.80	0.7711	0.1225	8	0.32	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0493	16.35	0.1000	15.80	0.7711	0.1225	8	0.65	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0027	16.60	0.4000	15.80	0.7711	0.1225	8	0.95	NA	0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0486	15.56	0.2300	15.84	0.2877	0.3000	3	-0.98		0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0444	15.83	0.2100	15.84	0.2877	0.3000	3	-0.04		0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0518	16.13	0.4600	15.84	0.2877	0.3000	3	1.02		0
148.00	Total Sulfur, Combustion (16%)	0360	12.47	0.3700	16.36	0.5448	0.3186	7	-6.47	Low	0
148.00	Total Sulfur, Combustion (16%)	0025	16.10	0.0200	16.36	0.5448	0.3186	7	-0.44	OK	0
148.00	Total Sulfur, Combustion (16%)	0029	16.28	0.4400	16.36	0.5448	0.3186	7	-0.14	OK	0
148.00	Total Sulfur, Combustion (16%)	0185	16.30	0.2000	16.36	0.5448	0.3186	7	-0.11	OK	0
148.00	Total Sulfur, Combustion (16%)	0451	16.60	0.8000	16.36	0.5448	0.3186	7	0.39	OK	0
148.00	Total Sulfur, Combustion (16%)	0157	16.65	0.1000	16.36	0.5448	0.3186	7	0.47	OK	0
148.00	Total Sulfur, Combustion (16%)	0136	17.07	0.3000	16.36	0.5448	0.3186	7	1.17	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0405	14.08	0.0000	16.45	0.6354	0.1839	15	-3.72	Low	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0231	15.75	0.1000	16.45	0.6354	0.1839	15	-1.09	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0114	15.83	0.6300	16.45	0.6354	0.1839	15	-0.98	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0549	15.95	0.1000	16.45	0.6354	0.1839	15	-0.78	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0371	16.16	0.0600	16.45	0.6354	0.1839	15	-0.45	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0444	16.21	0.1800	16.45	0.6354	0.1839	15	-0.37	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0476	16.48	0.2640	16.45	0.6354	0.1839	15	0.05	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0055	16.49	0.5000	16.45	0.6354	0.1839	15	0.07	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0500	16.54	0.0000	16.45	0.6354	0.1839	15	0.15	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0545	16.56	0.0800	16.45	0.6354	0.1839	15	0.18	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0324	16.80	0.0000	16.45	0.6354	0.1839	15	0.56	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0534	16.81	0.0000	16.45	0.6354	0.1839	15	0.57	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0105	16.82	0.0900	16.45	0.6354	0.1839	15	0.58	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0037	17.55	0.3550	16.45	0.6354	0.1839	15	1.74	High	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0157	17.90	0.4000	16.45	0.6354	0.1839	15	2.29	High	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (16%)	0230	15.30	1.800	16.45	0.6354	0.1839	15	-1.80	Low	1
148.07	Total Sulfur, ICP, test portion as in 2006.03... (16%)	0494	10.44	0.1104	16.64	1.288	0.4077	11	-4.81	Low	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (16%)	0444	15.30	0.1400	16.64	1.288	0.4077	11	-1.04	Low	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (16%)	0117	15.96	0.3500	16.64	1.288	0.4077	11	-0.53	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (16%)	0023	16.31	0.7180	16.64	1.288	0.4077	11	-0.26	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (16%)	0177	16.44	0.0585	16.64	1.288	0.4077	11	-0.15	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
148.07	Total Sulfur, ICP, test portion as in 2006.03... (16%)	0421	16.50	0.2000	16.64	1.288	0.4077	11	-0.11	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (16%)	0102	16.68	0.5279	16.64	1.288	0.4077	11	0.03	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (16%)	0527	16.90	0.1280	16.64	1.288	0.4077	11	0.20	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (16%)	0292	17.62	0.1400	16.64	1.288	0.4077	11	0.76	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (16%)	0483	18.05	1.100	16.64	1.288	0.4077	11	1.10	High	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (16%)	0546	21.11	1.012	16.64	1.288	0.4077	11	3.47	High	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (16%)	0515	17.53	4.118	16.64	1.288	0.4077	11	0.69	OK	1
148.99	Total Sulfur, Other (16%)	0523	11.10	0.4000	16.26	0.9753	0.1850	14	-5.29	Low	0
148.99	Total Sulfur, Other (16%)	0040	15.38	0.4800	16.26	0.9753	0.1850	14	-0.90	OK	0
148.99	Total Sulfur, Other (16%)	0368	15.49	0.1977	16.26	0.9753	0.1850	14	-0.80	OK	0
148.99	Total Sulfur, Other (16%)	0096	15.65	0.2100	16.26	0.9753	0.1850	14	-0.63	OK	0
148.99	Total Sulfur, Other (16%)	0541	15.92	0.0600	16.26	0.9753	0.1850	14	-0.35	OK	0
148.99	Total Sulfur, Other (16%)	0501	16.00	0.0000	16.26	0.9753	0.1850	14	-0.27	OK	0
148.99	Total Sulfur, Other (16%)	0526	16.10	0.0000	16.26	0.9753	0.1850	14	-0.17	OK	0
148.99	Total Sulfur, Other (16%)	0220	16.15	0.0300	16.26	0.9753	0.1850	14	-0.12	OK	0
148.99	Total Sulfur, Other (16%)	0482	16.20	0.2000	16.26	0.9753	0.1850	14	-0.06	OK	0
148.99	Total Sulfur, Other (16%)	0354	16.28	0.0620	16.26	0.9753	0.1850	14	0.02	OK	0
148.99	Total Sulfur, Other (16%)	0377	17.22	0.1900	16.26	0.9753	0.1850	14	0.98	OK	0
148.99	Total Sulfur, Other (16%)	0433	17.49	0.6100	16.26	0.9753	0.1850	14	1.25	High	0
148.99	Total Sulfur, Other (16%)	0452	17.50	0.0100	16.26	0.9753	0.1850	14	1.26	High	0
148.99	Total Sulfur, Other (16%)	0402	17.51	0.1400	16.26	0.9753	0.1850	14	1.28	High	0
148.99	Total Sulfur, Other (16%)	0542	7.095	1.251	16.26	0.9753	0.1850	14	-9.40	Low	1
149.04	Sulfur - HNO3 soluble, ICP (%)	0524	15.54	0.3020	15.82	0.2681	0.1104	5	-1.04		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0547	15.55	0.0300	15.82	0.2681	0.1104	5	-1.04		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0519	15.90	0.0200	15.82	0.2681	0.1104	5	0.28		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0423	16.00	0.2000	15.82	0.2681	0.1104	5	0.66		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0521	16.13	0.0000	15.82	0.2681	0.1104	5	1.15		0
151.00	Acid Soluble Arsenic , AA, test portion as in...	0136	1.200	0.0000				1			0
151.30	Acid Soluble Arsenic , ICP (ppm)	0102	0.3610	0.0000	1.813	1.074	0.0813	7	-1.22	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0389	1.385	0.0100	1.813	1.074	0.0813	7	-0.36	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0255	1.535	0.1490	1.813	1.074	0.0813	7	-0.23	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0523	1.535	0.3100	1.813	1.074	0.0813	7	-0.23	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0511	2.200	0.0000	1.813	1.074	0.0813	7	0.33	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0501	2.250	0.1000	1.813	1.074	0.0813	7	0.37	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0405	7.000	0.0000	1.813	1.074	0.0813	7	4.37	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0541	2.185	0.7100	1.813	1.074	0.0813	7	0.31	NA	1
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0527	1.707	0.0440	2.855	1.324	1.781	3	-0.87		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0494	2.555	0.4330	2.855	1.324	1.781	3	-0.23		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0515	4.304	4.867	2.855	1.324	1.781	3	1.09		0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0368	4.750	0.3000				1			0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0515	0.6665	1.333				1			4
151.99	Acid Soluble Arsenic , Other (ppm)	0220	0.9000	0.0000	1.266	0.4406	0.0628	3	-0.83		0
151.99	Acid Soluble Arsenic , Other (ppm)	0476	1.143	0.0985	1.266	0.4406	0.0628	3	-0.28		0

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			Value	Range	Rob Mean	Rob SD	R-bar				
151.99	Acid Soluble Arsenic , Other (ppm)	0519	1.755	0.0900	1.266	0.4406	0.0628	3	1.11		0
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	0531	0.4450	0.0100	0.4877	0.0430	0.0136	10	-0.92	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	0169	0.4465	0.0130	0.4877	0.0430	0.0136	10	-0.89	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	0535	0.4550	0.0100	0.4877	0.0430	0.0136	10	-0.71	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	0540	0.4600	0.0200	0.4877	0.0430	0.0136	10	-0.60	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	0220	0.4790	0.0020	0.4877	0.0430	0.0136	10	-0.19	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	0539	0.4800	0.0200	0.4877	0.0430	0.0136	10	-0.17	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	0029	0.5115	0.0170	0.4877	0.0430	0.0136	10	0.51	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	0055	0.5180	0.0040	0.4877	0.0430	0.0136	10	0.66	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	0534	0.5300	0.0200	0.4877	0.0430	0.0136	10	0.92	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	0489	0.6600	0.0200	0.4877	0.0430	0.0136	10	3.73	High	0
165.00	Acid Soluble Boron , Spectrophotometric (0.5%)	0309	0.4000	0.0800	0.4877	0.0430	0.0136	10	-1.90	Low	1
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0324	0.4650	0.0500	0.5186	0.0404	0.0119	17	-1.33	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0494	0.4716	0.0082	0.5186	0.0404	0.0119	17	-1.16	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0486	0.4750	0.0100	0.5186	0.0404	0.0119	17	-1.08	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0354	0.4865	0.0050	0.5186	0.0404	0.0119	17	-0.79	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0023	0.4950	0.0000	0.5186	0.0404	0.0119	17	-0.58	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0292	0.5000	0.0000	0.5186	0.0404	0.0119	17	-0.46	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0537	0.5015	0.0210	0.5186	0.0404	0.0119	17	-0.42	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0102	0.5086	0.0214	0.5186	0.0404	0.0119	17	-0.25	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0377	0.5130	0.0080	0.5186	0.0404	0.0119	17	-0.14	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0234	0.5250	0.0100	0.5186	0.0404	0.0119	17	0.16	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0444	0.5250	0.0100	0.5186	0.0404	0.0119	17	0.16	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0389	0.5380	0.0080	0.5186	0.0404	0.0119	17	0.48	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0521	0.5440	0.0000	0.5186	0.0404	0.0119	17	0.63	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0073	0.5520	0.0460	0.5186	0.0404	0.0119	17	0.83	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0136	0.5600	0.0000	0.5186	0.0404	0.0119	17	1.03	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0433	0.5765	0.0050	0.5186	0.0404	0.0119	17	1.43	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.5%)	0542	0.6200	0.0000	0.5186	0.0404	0.0119	17	2.51	High	0
165.99	Acid Soluble Boron , Other (0.5%)	0476	0.3852	0.0006	0.5040	0.0384	0.0101	25	-3.09	Low	0
165.99	Acid Soluble Boron , Other (0.5%)	0472	0.4450	0.0100	0.5040	0.0384	0.0101	25	-1.54	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0527	0.4605	0.0270	0.5040	0.0384	0.0101	25	-1.13	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0368	0.4723	0.0095	0.5040	0.0384	0.0101	25	-0.83	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0519	0.4750	0.0100	0.5040	0.0384	0.0101	25	-0.75	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0231	0.4900	0.0200	0.5040	0.0384	0.0101	25	-0.36	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0325	0.4900	0.0400	0.5040	0.0384	0.0101	25	-0.36	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0452	0.4900	0.0000	0.5040	0.0384	0.0101	25	-0.36	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0025	0.4915	0.0043	0.5040	0.0384	0.0101	25	-0.33	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0421	0.4915	0.0010	0.5040	0.0384	0.0101	25	-0.33	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0482	0.4950	0.0100	0.5040	0.0384	0.0101	25	-0.23	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0230	0.4960	0.0100	0.5040	0.0384	0.0101	25	-0.21	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0515	0.4976	0.0007	0.5040	0.0384	0.0101	25	-0.17	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0405	0.4990	0.0000	0.5040	0.0384	0.0101	25	-0.13	OK	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
165.99	Acid Soluble Boron , Other (0.5%)	0501	0.5000	0.0000	0.5040	0.0384	0.0101	25	-0.10	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0423	0.5030	0.0040	0.5040	0.0384	0.0101	25	-0.03	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0117	0.5085	0.0015	0.5040	0.0384	0.0101	25	0.12	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0508	0.5100	0.0200	0.5040	0.0384	0.0101	25	0.16	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0042	0.5195	0.0090	0.5040	0.0384	0.0101	25	0.40	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0511	0.5200	0.0000	0.5040	0.0384	0.0101	25	0.42	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0524	0.5539	0.0209	0.5040	0.0384	0.0101	25	1.30	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0483	0.5590	0.0320	0.5040	0.0384	0.0101	25	1.43	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0546	0.5645	0.0130	0.5040	0.0384	0.0101	25	1.58	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0291	0.5750	0.0100	0.5040	0.0384	0.0101	25	1.85	OK	0
165.99	Acid Soluble Boron , Other (0.5%)	0255	0.6960	0.0000	0.5040	0.0384	0.0101	25	5.00	High	0
171.00	Water Soluble Boron , AA, JAOAC 52.950 (%)	0500	0.4700	0.0000				1			0
171.10	Water Soluble Boron , Spectrophotometric (%)	0220	0.2900	0.0000	0.4222	0.0944	0.0200	9	-1.29	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0535	0.3700	0.0200	0.4222	0.0944	0.0200	9	-0.51	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0540	0.3700	0.0200	0.4222	0.0944	0.0200	9	-0.51	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0531	0.3750	0.0100	0.4222	0.0944	0.0200	9	-0.46	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0539	0.3750	0.0100	0.4222	0.0944	0.0200	9	-0.46	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0533	0.4900	0.0400	0.4222	0.0944	0.0200	9	0.66	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0538	0.5000	0.0200	0.4222	0.0944	0.0200	9	0.76	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0536	0.5050	0.0500	0.4222	0.0944	0.0200	9	0.81	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0532	0.5250	0.0100	0.4222	0.0944	0.0200	9	1.00	NA	0
171.99	Water Soluble Boron , Other (%)	0444	0.2950	0.0100				2			0
171.99	Water Soluble Boron , Other (%)	0402	0.5000	0.0000				2			0
181.00	Acid Soluble Cadmium , AA, test portion as in...	0136	0.4000	0.0000				1			0
181.30	Acid Soluble Cadmium , ICP (ppm)	0444	0.2300	0.0400	0.3204	0.0956	0.0213	7	-0.86	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0255	0.2380	0.0260	0.3204	0.0956	0.0213	7	-0.78	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0389	0.2900	0.0200	0.3204	0.0956	0.0213	7	-0.29	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0102	0.3010	0.0000	0.3204	0.0956	0.0213	7	-0.18	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0524	0.3137	0.0430	0.3204	0.0956	0.0213	7	-0.06	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0541	0.4300	0.0000	0.3204	0.0956	0.0213	7	1.04	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0452	0.4400	0.0200	0.3204	0.0956	0.0213	7	1.13	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0511	0.0000	0.0000	0.3204	0.0956	0.0213	7			4
181.30	Acid Soluble Cadmium , ICP (ppm)	0377	0.0500	0.1000	0.3204	0.0956	0.0213	7			4
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0527	0.2955	0.0030				2			0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0494	0.3016	0.1061				2			0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0515	2.790	5.579				2			4
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0515	0.2305	0.0650	0.4142	0.1686	0.2703	3	-1.09		0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0368	0.4500	0.3000	0.4142	0.1686	0.2703	3	0.21		0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0230	0.5620	0.4460	0.4142	0.1686	0.2703	3	0.88		0
181.99	Acid Soluble Cadmium , Other (ppm)	0476	0.1640	0.0098	0.2147	0.0450	0.0433	3	-1.13		0
181.99	Acid Soluble Cadmium , Other (ppm)	0519	0.2300	0.0200	0.2147	0.0450	0.0433	3	0.34		0
181.99	Acid Soluble Cadmium , Other (ppm)	0220	0.2500	0.1000	0.2147	0.0450	0.0433	3	0.79		0
190.99	Water Soluble Chlorine, Other (%)	0511	0.1770	0.0000				1			0

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			Value	Range	Rob Mean	Rob SD	R-bar				
191.30	Acid Soluble Chromium , ICP (ppm)	0541	0.1000	0.1200	13.54	4.794	0.8104	13	-2.80	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0501	7.150	0.1000	13.54	4.794	0.8104	13	-1.33	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0377	8.855	3.010	13.54	4.794	0.8104	13	-0.98	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0389	9.400	1.000	13.54	4.794	0.8104	13	-0.86	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0102	13.58	0.5150	13.54	4.794	0.8104	13	0.01	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0096	14.05	1.100	13.54	4.794	0.8104	13	0.11	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0444	14.07	0.7800	13.54	4.794	0.8104	13	0.11	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0035	15.95	3.500	13.54	4.794	0.8104	13	0.50	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0405	16.00	0.0000	13.54	4.794	0.8104	13	0.51	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0452	16.29	0.0200	13.54	4.794	0.8104	13	0.57	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0523	17.96	0.3900	13.54	4.794	0.8104	13	0.92	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0482	18.20	0.0000	13.54	4.794	0.8104	13	0.97	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0511	18.20	0.0000	13.54	4.794	0.8104	13	0.97	NA	0
191.32	Acid Soluble Chromium , ICP, 2006.03 (ppm)	0542	24.82	0.0800				1			0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0527	20.51	0.0810	23.60	2.728	1.458	5	-1.13		0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0037	22.00	0.0990	23.60	2.728	1.458	5	-0.59		0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0494	22.97	1.120	23.60	2.728	1.458	5	-0.23		0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0117	25.01	0.2700	23.60	2.728	1.458	5	0.52		0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0515	27.51	5.722	23.60	2.728	1.458	5	1.43		0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0230	15.70	0.6000	16.23	0.5686	0.8790	3	-0.93		0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0368	16.15	0.3000	16.23	0.5686	0.8790	3	-0.13		0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0515	16.83	1.737	16.23	0.5686	0.8790	3	1.06		0
191.99	Acid Soluble Chromium , Other (ppm)	0519	7.700	0.0200	14.45	5.851	0.0090	3	-1.15		0
191.99	Acid Soluble Chromium , Other (ppm)	0476	17.66	0.0071	14.45	5.851	0.0090	3	0.55		0
191.99	Acid Soluble Chromium , Other (ppm)	0220	18.00	0.0000	14.45	5.851	0.0090	3	0.61		0
202.30	Acid Soluble Cobalt , ICP (ppm)	0377	0.7850	0.4100	1.613	0.6824	0.1101	10	-1.13	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0405	1.000	0.0000	1.613	0.6824	0.1101	10	-0.84	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0511	1.140	0.0000	1.613	0.6824	0.1101	10	-0.64	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0102	1.256	0.0880	1.613	0.6824	0.1101	10	-0.49	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0524	1.373	0.0532	1.613	0.6824	0.1101	10	-0.33	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0035	1.535	0.0900	1.613	0.6824	0.1101	10	-0.11	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0482	2.075	0.0500	1.613	0.6824	0.1101	10	0.63	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0389	2.120	0.2000	1.613	0.6824	0.1101	10	0.69	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0452	2.395	0.0100	1.613	0.6824	0.1101	10	1.07	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0096	2.450	0.2000	1.613	0.6824	0.1101	10	1.14	OK	0
202.32	Acid Soluble Cobalt , ICP, 2006.03 (ppm)	0423	2.115	0.0100				2			0
202.32	Acid Soluble Cobalt , ICP, 2006.03 (ppm)	0542	2.992	0.0260				2			0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0546	1.888	0.0920	2.927	1.467	1.491	5	-0.71		0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0527	2.278	0.1020	2.927	1.467	1.491	5	-0.44		0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0037	2.325	0.0150	2.927	1.467	1.491	5	-0.41		0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0494	2.635	0.0298	2.927	1.467	1.491	5	-0.20		0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0515	5.508	7.217	2.927	1.467	1.491	5	1.76		0
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0230	1.395	0.0500	1.745	0.3468	0.1403	3	-1.01		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0368	1.750	0.3000	1.745	0.3468	0.1403	3	0.02		0
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0515	2.089	0.0710	1.745	0.3468	0.1403	3	0.99		0
202.99	Acid Soluble Cobalt , Other (ppm)	0519	0.5800	0.0400	1.781	0.8513	0.0526	4	-1.41		0
202.99	Acid Soluble Cobalt , Other (ppm)	0476	1.774	0.0014	1.781	0.8513	0.0526	4	-0.01		0
202.99	Acid Soluble Cobalt , Other (ppm)	0220	2.350	0.1000	1.781	0.8513	0.0526	4	0.67		0
202.99	Acid Soluble Cobalt , Other (ppm)	0255	2.420	0.0690	1.781	0.8513	0.0526	4	0.75		0
221.03	Acid Soluble Copper , AA, 965.09, test portio... (%)	0037	4.610	0.3690				1			0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0483	0.0002	0.0002	0.0009	0.0010	0.0001	5	-0.64		0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0096	0.0002	0.0000	0.0009	0.0010	0.0001	5	-0.64		0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0230	0.0002	0.0000	0.0009	0.0010	0.0001	5	-0.64		0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0354	0.0020	0.0000	0.0009	0.0010	0.0001	5	0.93		0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0035	0.0021	0.0001	0.0009	0.0010	0.0001	5	0.98		0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0541	5.000	0.0000	0.0009	0.0010	0.0001	5	4364.64		2
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0255	0.0000	0.0000	0.0009	0.0010	0.0001	5			4
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0472	0.0000	0.0000	0.0009	0.0010	0.0001	5			4
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0511	0.0000	0.0000	0.0009	0.0010	0.0001	5			4
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0377	0.0002	0.0003	0.0009	0.0010	0.0001	5			4
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0521	0.0002	0.0000	0.2626	0.4507	0.0817	3	-0.58		0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0423	0.0045	0.0010	0.2626	0.4507	0.0817	3	-0.57		0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0542	0.7830	0.2440	0.2626	0.4507	0.0817	3	1.15		0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0494	0.0003	0.0000	0.0006	0.0005	0.0003	3	-0.58		0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0546	0.0003	0.0000	0.0006	0.0005	0.0003	3	-0.58		0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0515	0.0011	0.0010	0.0006	0.0005	0.0003	3	1.15		0
221.99	Acid Soluble Copper , Other (%)	0476	0.0001	0.0000	0.0003	0.0001	0.0000	7	-1.50	OK	0
221.99	Acid Soluble Copper , Other (%)	0389	0.0003	0.0001	0.0003	0.0001	0.0000	7	-0.48	OK	0
221.99	Acid Soluble Copper , Other (%)	0220	0.0003	0.0000	0.0003	0.0001	0.0000	7	-0.14	OK	0
221.99	Acid Soluble Copper , Other (%)	0524	0.0003	0.0000	0.0003	0.0001	0.0000	7	-0.14	OK	0
221.99	Acid Soluble Copper , Other (%)	0515	0.0004	0.0001	0.0003	0.0001	0.0000	7	0.20	OK	0
221.99	Acid Soluble Copper , Other (%)	0368	0.0004	0.0000	0.0003	0.0001	0.0000	7	0.54	OK	0
221.99	Acid Soluble Copper , Other (%)	0519	0.0100	0.0000	0.0003	0.0001	0.0000	7	65.82	High	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0354	0.0585	0.0010	0.0670	0.0073	0.0022	5	-1.01		0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0096	0.0600	0.0000	0.0670	0.0073	0.0022	5	-0.84		0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0511	0.0700	0.0000	0.0670	0.0073	0.0022	5	0.35		0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0483	0.0716	0.0002	0.0670	0.0073	0.0022	5	0.54		0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0482	0.0750	0.0100	0.0670	0.0073	0.0022	5	0.95		0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0035	0.0890	0.0460	0.0670	0.0073	0.0022	5	2.61		1
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0521	0.0597	0.0000				2			0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0423	0.0745	0.0030				2			0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0117	0.0757	0.0015	0.0796	0.0029	0.0026	4	-1.38		0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0527	0.0800	0.0000	0.0796	0.0029	0.0026	4	0.14		0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0494	0.0803	0.0002	0.0796	0.0029	0.0026	4	0.24		0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0515	0.0825	0.0088	0.0796	0.0029	0.0026	4	1.01		0
241.99	Acid Soluble Iron, Other (%)	0524	0.0606	0.0049	0.0781	0.0184	0.0038	4	-0.95		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
241.99	Acid Soluble Iron, Other (%)	0389	0.0655	0.0010	0.0781	0.0184	0.0038	4	-0.68		0
241.99	Acid Soluble Iron, Other (%)	0515	0.0863	0.0093	0.0781	0.0184	0.0038	4	0.44		0
241.99	Acid Soluble Iron, Other (%)	0501	0.1000	0.0000	0.0781	0.0184	0.0038	4	1.19		0
251.00	Acid Soluble Lead , AA, test portion as in 20...	0136	2.500	1.000				1			0
251.30	Acid Soluble Lead , ICP (ppm)	0255	0.8230	0.1340	1.652	0.8634	0.1881	7	-0.87	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0501	1.150	0.1000	1.652	0.8634	0.1881	7	-0.53	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0524	1.304	0.2829	1.652	0.8634	0.1881	7	-0.36	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0096	1.350	0.1000	1.652	0.8634	0.1881	7	-0.32	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0511	1.540	0.0000	1.652	0.8634	0.1881	7	-0.12	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0389	2.450	0.5000	1.652	0.8634	0.1881	7	0.84	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0035	10.40	0.2000	1.652	0.8634	0.1881	7	9.16	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0541	77.05	10.99	1.652	0.8634	0.1881	7	78.95	NA	1
251.32	Acid Soluble Lead , ICP, 2006.03 (ppm)	0542	2.775	0.0500				1			0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9...	0494	1.101	0.0372				2			0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9...	0527	1.148	0.0380				2			0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9...	0515	3.506	7.011				2			4
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0230	1.340	0.2800				2			0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0368	1.400	0.6000				2			0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0515	0.6445	1.289				2			4
251.99	Acid Soluble Lead , Other (ppm)	0519	1.005	0.0300	1.282	0.2418	0.2437	3	-1.15		0
251.99	Acid Soluble Lead , Other (ppm)	0476	1.392	0.0011	1.282	0.2418	0.2437	3	0.45		0
251.99	Acid Soluble Lead , Other (ppm)	0220	1.450	0.7000	1.282	0.2418	0.2437	3	0.69		0
261.30	Acid Soluble Manganese , ICP, test portion 97...	0035	0.0052	0.0003	17.72	30.68	0.7004	3	-0.58		0
261.30	Acid Soluble Manganese , ICP, test portion 97...	0354	0.0055	0.0010	17.72	30.68	0.7004	3	-0.58		0
261.30	Acid Soluble Manganese , ICP, test portion 97...	0096	53.15	2.100	17.72	30.68	0.7004	3	1.15		0
261.31	Acid Soluble Manganese , ICP, test portion 97...	0482	0.0100	0.0000				1			0
261.31	Acid Soluble Manganese , ICP, test portion 97...	0511	0.0000	0.0000				1			4
261.34	Acid Soluble Manganese , ICP, test portion 20...	0521	0.0043	0.0000				2			0
261.34	Acid Soluble Manganese , ICP, test portion 20...	0423	0.0060	0.0000				2			0
261.35	Acid Soluble Manganese , ICP, test portion 20...	0527	0.0050	0.0000	0.0052	0.0002	0.0001	3	-1.09		0
261.35	Acid Soluble Manganese , ICP, test portion 20...	0117	0.0052	0.0000	0.0052	0.0002	0.0001	3	0.22		0
261.35	Acid Soluble Manganese , ICP, test portion 20...	0494	0.0053	0.0002	0.0052	0.0002	0.0001	3	0.87		0
261.35	Acid Soluble Manganese , ICP, test portion 20...	0515	0.0298	0.0595	0.0052	0.0002	0.0001	3			4
261.99	Acid Soluble Manganese , Other (%)	0515	0.0038	0.0006	0.0049	0.0011	0.0004	3	-0.95		0
261.99	Acid Soluble Manganese , Other (%)	0389	0.0048	0.0001	0.0049	0.0011	0.0004	3	-0.09		0
261.99	Acid Soluble Manganese , Other (%)	0524	0.0060	0.0006	0.0049	0.0011	0.0004	3	1.04		0
281.00	Acid Soluble Mercury , AA (ppm)	0511	0.1630	0.0000				2			0
281.00	Acid Soluble Mercury , AA (ppm)	0117	0.2377	0.0739				2			0
281.30	Acid Soluble Mercury , ICP (ppm)	0527	0.3145	0.0050				2			0
281.30	Acid Soluble Mercury , ICP (ppm)	0515	0.7395	0.1930				2			0
281.30	Acid Soluble Mercury , ICP (ppm)	0541	0.0000	0.0000				2			4
281.99	Acid Soluble Mercury , Other (ppm)	0519	0.0400	0.0000				2			0
281.99	Acid Soluble Mercury , Other (ppm)	0476	0.4633	0.0240				2			0

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			Value	Range	Rob Mean	Rob SD	R-bar				
289.30	Acid Soluble Molybdenum , ICP (ppm)	0524	1.035	0.1324	2.199	0.9801	0.2303	9	-1.10	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0389	1.050	0.1000	2.199	0.9801	0.2303	9	-1.08	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0255	1.944	0.6810	2.199	0.9801	0.2303	9	-0.24	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0405	2.000	0.0000	2.199	0.9801	0.2303	9	-0.19	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0541	2.044	0.0690	2.199	0.9801	0.2303	9	-0.15	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0521	2.228	0.0000	2.199	0.9801	0.2303	9	0.03	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0096	2.900	1.000	2.199	0.9801	0.2303	9	0.66	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0511	2.920	0.0000	2.199	0.9801	0.2303	9	0.68	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0519	37.05	0.0900	2.199	0.9801	0.2303	9	32.82	High	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0035	5.295	2.010	2.199	0.9801	0.2303	9	2.92	High	1
289.30	Acid Soluble Molybdenum , ICP (ppm)	0377	0.0000	0.0000	2.199	0.9801	0.2303	9			4
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (ppm)	0542	1.377	0.0610				1			0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0546	1.376	0.0250	1.529	0.1338	0.0220	3	-1.15		0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0527	1.591	0.0310	1.529	0.1338	0.0220	3	0.46		0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0037	1.621	0.0100	1.529	0.1338	0.0220	3	0.69		0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0515	3.598	7.195	1.529	0.1338	0.0220	3			4
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (ppm)	0515	1.142	0.3860	8.781	13.09	0.8020	3	-0.58		0
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (ppm)	0230	1.300	0.0200	8.781	13.09	0.8020	3	-0.57		0
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (ppm)	0368	23.90	2.000	8.781	13.09	0.8020	3	1.15		0
289.99	Acid Soluble Molybdenum , Other (ppm)	0220	1.100	1.000				2			0
289.99	Acid Soluble Molybdenum , Other (ppm)	0476	5.550	1.511				2			0
291.00	Acid Soluble Nickel , AA, test portion as in ... (ppm)	0136	5.200	0.4000				1			0
291.30	Acid Soluble Nickel , ICP (ppm)	0521	3.274	0.0000	4.560	0.7137	0.8701	12	-1.80	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0405	4.000	0.0000	4.560	0.7137	0.8701	12	-0.78	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0444	4.050	0.3600	4.560	0.7137	0.8701	12	-0.71	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0511	4.210	0.0000	4.560	0.7137	0.8701	12	-0.49	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0102	4.349	0.1820	4.560	0.7137	0.8701	12	-0.30	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0377	4.500	1.260	4.560	0.7137	0.8701	12	-0.08	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0524	4.606	0.3490	4.560	0.7137	0.8701	12	0.06	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0096	4.650	0.5000	4.560	0.7137	0.8701	12	0.13	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0389	4.650	0.3000	4.560	0.7137	0.8701	12	0.13	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0452	4.955	0.0100	4.560	0.7137	0.8701	12	0.55	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0541	5.925	3.950	4.560	0.7137	0.8701	12	1.91	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0035	7.725	3.530	4.560	0.7137	0.8701	12	4.43	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0494	4.796	0.0595	5.003	0.1418	0.0923	5	-1.46		0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0037	4.943	0.0260	5.003	0.1418	0.0923	5	-0.42		0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0515	5.031	0.1250	5.003	0.1418	0.0923	5	0.19		0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0117	5.078	0.1830	5.003	0.1418	0.0923	5	0.52		0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0527	5.169	0.0680	5.003	0.1418	0.0923	5	1.17		0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0230	3.695	0.0100	4.633	1.329	3.479	3	-0.71		0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0368	4.050	1.100	4.633	1.329	3.479	3	-0.44		0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0515	6.154	9.328	4.633	1.329	3.479	3	1.14		0
291.99	Acid Soluble Nickel , Other (ppm)	0476	3.910	0.7552	4.747	0.7131	0.5336	4	-1.17		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
291.99	Acid Soluble Nickel , Other (ppm)	0220	4.400	0.4000	4.747	0.7131	0.5336	4	-0.49		0
291.99	Acid Soluble Nickel , Other (ppm)	0255	5.299	0.6390	4.747	0.7131	0.5336	4	0.77		0
291.99	Acid Soluble Nickel , Other (ppm)	0519	5.380	0.3400	4.747	0.7131	0.5336	4	0.89		0
301.30	Acid Soluble Selenium , ICP (ppm)	0524	0.5300	0.0400				2			0
301.30	Acid Soluble Selenium , ICP (ppm)	0389	1.150	0.0800				2			0
301.30	Acid Soluble Selenium , ICP (ppm)	0511	0.0000	0.0000				2			4
301.30	Acid Soluble Selenium , ICP (ppm)	0541	0.2150	0.4300				2			4
301.32	Acid Soluble Selenium , ICP, 2006.03 (ppm)	0542	2.875	0.0500				1			0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0527	1.296	0.1460				1			0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0515	4.495	8.989				1			4
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0515	3.248	0.8190				1			0
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0368	0.0000	0.0000				1			4
301.99	Acid Soluble Selenium , Other (ppm)	0220	1.000	0.2000	1.369	0.3671	0.2323	4	-1.01		0
301.99	Acid Soluble Selenium , Other (ppm)	0476	1.143	0.2992	1.369	0.3671	0.2323	4	-0.62		0
301.99	Acid Soluble Selenium , Other (ppm)	0519	1.525	0.0500	1.369	0.3671	0.2323	4	0.42		0
301.99	Acid Soluble Selenium , Other (ppm)	0255	1.808	0.3800	1.369	0.3671	0.2323	4	1.20		0
311.32	Sodium, ICP, 2006.03 test portion (%)	0521	0.3007	0.0000				2			0
311.32	Sodium, ICP, 2006.03 test portion (%)	0389	0.3215	0.0010				2			0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0423	0.0375	0.0010	0.2664	0.1566	0.0233	4	-1.46		0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0527	0.3075	0.0050	0.2664	0.1566	0.0233	4	0.26		0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0035	0.3295	0.0730	0.2664	0.1566	0.0233	4	0.40		0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0494	0.3909	0.0140	0.2664	0.1566	0.0233	4	0.80		0
311.99	Sodium, Other (%)	0354	0.3320	0.0340	0.3368	0.0039	0.0110	4	-1.20		0
311.99	Sodium, Other (%)	0096	0.3350	0.0100	0.3368	0.0039	0.0110	4	-0.44		0
311.99	Sodium, Other (%)	0482	0.3400	0.0000	0.3368	0.0039	0.0110	4	0.82		0
311.99	Sodium, Other (%)	0511	0.3400	0.0000	0.3368	0.0039	0.0110	4	0.82		0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1.5%)	0029	1.455	0.0560	1.512	0.0676	0.0200	10	-0.78	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1.5%)	0539	1.455	0.0100	1.512	0.0676	0.0200	10	-0.78	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1.5%)	0540	1.460	0.0200	1.512	0.0676	0.0200	10	-0.71	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1.5%)	0535	1.475	0.0100	1.512	0.0676	0.0200	10	-0.51	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1.5%)	0531	1.485	0.0100	1.512	0.0676	0.0200	10	-0.37	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1.5%)	0533	1.510	0.0400	1.512	0.0676	0.0200	10	-0.03	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1.5%)	0040	1.516	0.0010	1.512	0.0676	0.0200	10	0.05	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1.5%)	0169	1.541	0.0030	1.512	0.0676	0.0200	10	0.39	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1.5%)	0534	1.610	0.0200	1.512	0.0676	0.0200	10	1.35	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1.5%)	0489	2.125	0.0300	1.512	0.0676	0.0200	10	8.43	High	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0291	1.275	0.0100	1.511	0.0706	0.0321	22	-3.34	Low	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0433	1.385	0.0090	1.511	0.0706	0.0321	22	-1.79	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0035	1.395	0.0300	1.511	0.0706	0.0321	22	-1.64	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0102	1.469	0.0332	1.511	0.0706	0.0321	22	-0.59	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0255	1.477	0.0560	1.511	0.0706	0.0321	22	-0.48	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0444	1.485	0.0300	1.511	0.0706	0.0321	22	-0.37	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0096	1.490	0.0390	1.511	0.0706	0.0321	22	-0.30	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0157	1.495	0.0700	1.511	0.0706	0.0321	22	-0.23	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0230	1.495	0.0100	1.511	0.0706	0.0321	22	-0.23	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0234	1.495	0.0300	1.511	0.0706	0.0321	22	-0.23	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0325	1.495	0.0300	1.511	0.0706	0.0321	22	-0.23	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0472	1.505	0.0100	1.511	0.0706	0.0321	22	-0.08	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0354	1.513	0.0380	1.511	0.0706	0.0321	22	0.03	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0073	1.515	0.0100	1.511	0.0706	0.0321	22	0.06	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0292	1.530	0.0000	1.511	0.0706	0.0321	22	0.27	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0377	1.532	0.0100	1.511	0.0706	0.0321	22	0.30	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0482	1.535	0.0100	1.511	0.0706	0.0321	22	0.34	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0324	1.555	0.1700	1.511	0.0706	0.0321	22	0.63	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0231	1.595	0.0100	1.511	0.0706	0.0321	22	1.19	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0402	1.610	0.0400	1.511	0.0706	0.0321	22	1.40	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0371	1.715	0.0500	1.511	0.0706	0.0321	22	2.89	High	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0452	1.735	0.0100	1.511	0.0706	0.0321	22	3.18	High	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1.5%)	0483	1.600	0.2000	1.511	0.0706	0.0321	22	1.26	OK	1
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0542	0.5457	0.0001	1.353	0.4660	0.0132	5	-1.73		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0521	1.473	0.0000	1.353	0.4660	0.0132	5	0.26		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0220	1.495	0.0300	1.353	0.4660	0.0132	5	0.30		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0547	1.497	0.0260	1.353	0.4660	0.0132	5	0.31		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0423	1.755	0.0100	1.353	0.4660	0.0132	5	0.86		0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0527	1.464	0.0470	1.548	0.0670	0.0321	13	-1.26	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0136	1.485	0.0100	1.548	0.0670	0.0321	13	-0.94	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0025	1.488	0.0350	1.548	0.0670	0.0321	13	-0.90	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0117	1.500	0.0070	1.548	0.0670	0.0321	13	-0.72	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0494	1.516	0.0217	1.548	0.0670	0.0321	13	-0.47	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0037	1.540	0.0160	1.548	0.0670	0.0321	13	-0.12	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0177	1.549	0.0232	1.548	0.0670	0.0321	13	0.02	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0486	1.550	0.0600	1.548	0.0670	0.0321	13	0.03	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0023	1.562	0.0040	1.548	0.0670	0.0321	13	0.21	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0034	1.573	0.0140	1.548	0.0670	0.0321	13	0.37	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0055	1.600	0.0200	1.548	0.0670	0.0321	13	0.78	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0421	1.650	0.1000	1.548	0.0670	0.0321	13	1.52	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0546	1.659	0.0600	1.548	0.0670	0.0321	13	1.66	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1.5%)	0515	1.871	0.5316	1.548	0.0670	0.0321	13	4.83	High	1
321.99	Acid Soluble Zinc , Other (1.5%)	0523	0.7315	0.0750	1.465	0.2299	0.0377	12	-3.19	Low	0
321.99	Acid Soluble Zinc , Other (1.5%)	0541	1.185	0.0300	1.465	0.2299	0.0377	12	-1.22	Low	0
321.99	Acid Soluble Zinc , Other (1.5%)	0476	1.278	0.0007	1.465	0.2299	0.0377	12	-0.81	Low	0
321.99	Acid Soluble Zinc , Other (1.5%)	0500	1.325	0.0100	1.465	0.2299	0.0377	12	-0.61	OK	0
321.99	Acid Soluble Zinc , Other (1.5%)	0519	1.485	0.0300	1.465	0.2299	0.0377	12	0.09	OK	0
321.99	Acid Soluble Zinc , Other (1.5%)	0508	1.490	0.0400	1.465	0.2299	0.0377	12	0.11	OK	0
321.99	Acid Soluble Zinc , Other (1.5%)	0501	1.500	0.0000	1.465	0.2299	0.0377	12	0.15	OK	0
321.99	Acid Soluble Zinc , Other (1.5%)	0389	1.540	0.0200	1.465	0.2299	0.0377	12	0.33	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321.99	Acid Soluble Zinc , Other (1.5%)	0042	1.569	0.0970	1.465	0.2299	0.0377	12	0.45	OK	0
321.99	Acid Soluble Zinc , Other (1.5%)	0027	1.615	0.0300	1.465	0.2299	0.0377	12	0.65	OK	0
321.99	Acid Soluble Zinc , Other (1.5%)	0368	1.666	0.0631	1.465	0.2299	0.0377	12	0.87	High	0
321.99	Acid Soluble Zinc , Other (1.5%)	0524	1.834	0.0566	1.465	0.2299	0.0377	12	1.60	High	0
321.99	Acid Soluble Zinc , Other (1.5%)	0515	1.318	0.3523	1.465	0.2299	0.0377	12	-0.64	OK	1
325.00	Water Soluble Zinc , AA (%)	0539	1.395	0.0100	1.471	0.0494	0.0271	7	-1.39	NA	0
325.00	Water Soluble Zinc , AA (%)	0540	1.435	0.0300	1.471	0.0494	0.0271	7	-0.66	NA	0
325.00	Water Soluble Zinc , AA (%)	0535	1.460	0.0200	1.471	0.0494	0.0271	7	-0.20	NA	0
325.00	Water Soluble Zinc , AA (%)	0537	1.480	0.0200	1.471	0.0494	0.0271	7	0.17	NA	0
325.00	Water Soluble Zinc , AA (%)	0536	1.500	0.0200	1.471	0.0494	0.0271	7	0.53	NA	0
325.00	Water Soluble Zinc , AA (%)	0027	1.505	0.0700	1.471	0.0494	0.0271	7	0.62	NA	0
325.00	Water Soluble Zinc , AA (%)	0532	1.520	0.0200	1.471	0.0494	0.0271	7	0.90	NA	0
325.10	Water Soluble Zinc , Gravimetric (%)	0549	1.550	0.1000				1			0
325.30	Water Soluble Zinc , ICP (%)	0405	1.100	0.0000	1.260	0.1343	0.0275	4	-1.19		0
325.30	Water Soluble Zinc , ICP (%)	0230	1.200	0.0000	1.260	0.1343	0.0275	4	-0.44		0
325.30	Water Soluble Zinc , ICP (%)	0444	1.345	0.0700	1.260	0.1343	0.0275	4	0.64		0
325.30	Water Soluble Zinc , ICP (%)	0546	1.393	0.0400	1.260	0.1343	0.0275	4	0.99		0
325.99	Water Soluble Zinc , Other (%)	0371	1.375	0.0300				1			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. A 9 flag indicates a data problem - scores not calculated. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are grey and included for information only. IA Status describes where your result is relative to the Assigned Value \pm IA. Red indicates Higher or Lower, Green indicates within the IA range. Method 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.