

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 180411

Grade 12-24-12

Statistical Summary

Methods: 140

Labs Reporting: 104

Issue Date : 05/31/2018

Method Code	Analyte & Method Sample # 180411	# 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)	Hornitz %RSD
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	11	10	8.058	0.4362	8.096		0.4014	0.1587	4.96%		0.1049	2.92%
001.99	Ammoniacal Nitrogen, Other (%)	27	27	8.436	0.3294	8.404		0.2477	0.0596	2.95%		0.0805	2.90%
002.10	Nitrate Nitrogen, Robertson (%)	1		3.700									
002.20	Nitrate Nitrogen, Jones Modified (%)	1		5.050									
002.99	Nitrate Nitrogen, Other (%)	21	21	3.362	0.2751	3.341		0.1703	0.0465	5.10%		0.0700	3.34%
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	5	5	10.08	3.695	10.08		3.695	2.066	36.67%		0.0976	2.83%
010.11	Total Nitrogen, Modified Comprehensive (12%)	10	10	11.76	0.6199	11.73	0.6059	0.6293	0.2488	5.37%	2.42	0.1233	2.76%
010.12	Total Nitrogen, Salicylic (12%)	4	4	11.22	0.8032	11.22	0.5983	0.8032	0.5020	7.16%	3.13	0.2287	2.78%
010.60	Total Nitrogen, Combustion (12%)	63	61	11.86	0.1887	11.85	0.6077	0.1697	0.0272	1.43%	0.65	0.0726	2.76%
010.99	Total Nitrogen, Other (12%)	11	11	11.66	0.5613	11.69	0.6054	0.4682	0.1765	4.00%	1.80	0.0904	2.76%
020.10	Total Phosphorus as P2O5, Gravimetric Quinolinium ..	5	5	25.79	0.0702	25.79		0.0702	0.0393	0.27%		0.1280	2.45%
020.20	Total Phosphorus as P2O5, Spectrophotometric Molyb	21	20	25.70	0.9730	25.58		0.5283	0.1477	2.07%		0.2122	2.46%
020.30	Total Phosphorus as P2O5, Alkalimetric Quinolinium...	1		25.82									
020.40	Total Phosphorus as P2O5, Automated (%)	3	3	25.83	0.1823	25.83		0.1823	0.1316	0.71%		0.1467	2.45%
020.50	Total Phosphorus as P2O5, ICP (%)	24	24	26.21	1.618	26.12		1.373	0.3504	5.26%		0.6320	2.45%
020.99	Total Phosphorus as P2O5, Other (%)	4	4	26.67	2.811	26.67		2.811	1.757	10.54%		3.622	2.44%
030.40	Citrate Insoluble Phosphorus as P2O5, Automated, t...	1		0.3950									
040.20	Indirect Available Phosphorus as P2O5, Spectrophot...	2	2	26.45	2.164								
040.40	Indirect Available Phosphorus as P2O5, Automated (2...	1		25.42									
040.99	Indirect Available Phosphorus as P2O5, Other (24%)	1		0.8970									
041.10	Direct Available Phosphorus as P2O5, Gravimetric Q...	7	7	25.20	0.2678	25.19	0.7300	0.2804	0.1325	1.11%	0.89	0.2771	2.46%
041.11	Direct Available Phosphorus as P2O5, Gravimetric Q...	6	6	25.54	0.4989	25.54	0.7300	0.5658	0.2887	2.22%	1.81	0.2160	2.46%
041.20	Direct Available Phosphorus as P2O5, Spectrophotom	1		24.15									
041.21	Direct Available Phosphorus as P2O5, Spectrophotom	4	4	24.61	0.6091	24.61	0.7300	0.6091	0.3807	2.48%	1.94	0.1375	2.47%
041.40	Direct Available Phosphorus as P2O5, Automated (24'	3	3	24.80	1.516	24.80	0.7300	1.516	1.094	6.11%	4.84	1.273	2.47%
041.50	Direct Available Phosphorus as P2O5, ICP (24%)	4	4	25.00	0.7672	25.00	0.7300	0.7672	0.4795	3.07%	2.45	0.5950	2.46%
041.51	Direct Available Phosphorus as P2O5, ICP, Citrate-...	11	11	25.04	1.029	25.14	0.7300	0.9247	0.3485	3.68%	2.95	0.2188	2.46%
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA ..	12	12	25.34	0.8125	25.32	0.7300	0.8227	0.2969	3.25%	2.63	0.1996	2.46%
041.99	Direct Available Phosphorus as P2O5, Other (24%)	11	10	25.02	0.6807	25.02	0.7300	0.7719	0.3051	3.08%	2.46	0.1830	2.46%
048.20	Water Soluble Phosphorus as P2O5, Spectrophotome	3	3	18.33	0.2221	18.33		0.2221	0.1603	1.21%		0.1727	2.58%
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	1		18.50									

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050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	13	13	12.82	0.5639	12.79	0.8214	0.5244	0.1818	4.10%	1.49	0.1462	2.73%
050.30	Soluble Potassium as K2O, AA (Oxalate) (12%)	3	3	12.81	0.4619	12.81	0.8225	0.4619	0.3334	3.61%	1.31	0.2500	2.72%
050.31	Soluble Potassium as K2O, AA (Citrate) (12%)	2	2	12.17	0.4702								
050.50	Soluble Potassium as K2O, ICP (Oxalate) (12%)	9	9	12.88	0.4586	12.88	0.8251	0.5200	0.2167	4.04%	1.47	0.3962	2.72%
050.51	Soluble Potassium as K2O, ICP (Citrate) (12%)	5	5	12.98	0.2362	12.98	0.8294	0.2362	0.1320	1.82%	0.66	0.2000	2.72%
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	15	15	13.16	0.5570	13.14	0.8355	0.5354	0.1728	4.08%	1.49	0.2953	2.71%
050.60	Soluble Potassium as K2O, Flame Photometric (Oxala	5	5	12.36	0.4690	12.36	0.8044	0.4690	0.2622	3.79%	1.36	0.0975	2.74%
050.61	Soluble Potassium as K2O, Flame Photometric (Citra..	2	2	13.22	0.0424								
050.62	Soluble Potassium as K2O, Flame Photometric (Citra..	6	6	12.71	0.2760	12.69	0.8174	0.2577	0.1315	2.03%	0.73	0.2967	2.73%
050.99	Soluble Potassium as K2O, Other (12%)	38	37	13.04	0.8854	12.96	0.8283	0.7116	0.1462	5.49%	2.00	0.2172	2.72%
060.00	Water (Free), Vacuum Oven (%)	3	3	1.140	0.2425	1.140		0.2425	0.1750	21.27%		0.0198	3.92%
060.99	Water (Free), Other (%)	2	2	1.431	0.0087								
101.03	Acid Soluble Calcium, AA, 965.09, test portion 200... (	1		4.480									
101.30	Acid Soluble Calcium, ICP, test portion inorganic ... (%)	8	8	4.344	0.4111	4.344	0.4172	0.4662	0.2060	10.73%	2.60	0.0888	3.21%
101.32	Acid Soluble Calcium, ICP, test portion 2006.03A-C (%)	2	2	4.445	0.3602								
101.33	Acid Soluble Calcium, ICP, test portion 2006.03A-C... (	7	7	4.202	0.1575	4.191	0.4095	0.1504	0.0711	3.59%	0.86	0.0847	3.22%
101.99	Acid Soluble Calcium, Other (%)	1		4.780									
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1.2%)	9	8	1.560	0.3494	1.501	0.2750	0.1470	0.0650	9.79%	1.25	0.0400	3.76%
121.03	Acid Soluble Magnesium, AA, 965.09, test portion 2...	1		1.386									
121.30	Acid Soluble Magnesium, ICP, test portion inorgani... (	20	19	1.419	0.1802	1.438	0.2719	0.1263	0.0362	8.78%	1.08	0.0303	3.79%
121.32	Acid Soluble Magnesium, ICP, test portion 2006.03A...	5	5	1.514	0.0528	1.514	0.2757	0.0528	0.0295	3.48%	0.45	0.0050	3.76%
121.33	Acid Soluble Magnesium, ICP, test portion 2006.03A...	18	18	1.435	0.1178	1.433	0.2716	0.1171	0.0345	8.18%	1.00	0.0400	3.79%
121.70	Acid Soluble Magnesium, Titrimetric (EDTA) (1.2%)	3	3	1.905	0.5261	1.905	0.2953	0.5261	0.3797	27.61%	4.15	0.0276	3.63%
121.99	Acid Soluble Magnesium, Other (1.2%)	12	12	1.432	0.2275	1.405	0.2703	0.1744	0.0629	12.41%	1.50	0.0641	3.80%
131.30	Water Soluble Magnesium, ICP (%)	1		1.374									
131.70	Water Soluble Magnesium, Titrimetric (EDTA) (%)	1		1.702									
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon disu... (%)	1		0.3145									
143.99	Elemental Sulfur, Other (%)	5	5	0.9680	0.3135	0.9680		0.3135	0.1753	32.39%		0.0244	4.02%
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulfur - ... (%)	8	8	1.171	0.0760	1.177		0.0694	0.0307	5.90%		0.0442	3.90%
145.99	Sulfate Sulfur, HCl soluble, Other (%)	3	3	1.225	0.2824	1.225		0.2824	0.2038	23.05%		0.0300	3.88%
146.99	Total Sulfur in Liquid, Other (1%)	1		0.9629									
148.00	Total Sulfur, Combustion (1%)	4	4	1.151	0.1514	1.151	0.2575	0.1514	0.0946	13.16%	1.37	0.0685	3.92%
148.01	Total Sulfur, Gravimetric - sulfate and elemental... (1%	10	10	1.276	0.1310	1.266	0.2633	0.1283	0.0507	10.13%	1.14	0.0667	3.86%
148.07	Total Sulfur, ICP, test portion as in 2006.03 modi... (1%	16	15	1.116	0.0803	1.116	0.2558	0.0897	0.0289	8.04%	0.82	0.0278	3.93%
148.99	Total Sulfur, Other (1%)	10	10	1.154	0.0963	1.154	0.2577	0.1092	0.0432	9.46%	0.99	0.0390	3.91%
149.04	Sulfur - HNO3 soluble, ICP (%)	6	6	1.091	0.0516	1.091		0.0585	0.0299	5.37%		0.0209	3.95%
151.00	Acid Soluble Arsenic , AA, test portion as in 2006... (p	2	2	4.030	1.301								
151.30	Acid Soluble Arsenic , ICP (ppm)	3	3	8.652	1.649	8.652		1.649	1.190	19.06%		0.7110	11.56%
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified w/9:3... (	7	7	9.063	1.573	9.063		1.784	0.8428	19.68%		0.4886	11.48%
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	3	3	8.757	2.676	8.757		2.676	1.931	30.56%		1.689	11.54%
151.99	Acid Soluble Arsenic , Other (ppm)	6	6	11.28	4.685	9.971		1.892	0.9653	18.97%		0.3659	11.32%
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	12	11	0.0557	0.0171	0.0549	0.0112	0.0175	0.0066	31.88%	3.63	0.0043	6.19%

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165.30	Acid Soluble Boron , ICP, test portion in 982.01 ... (0.0	12	11	0.0639	0.0093	0.0639	0.0126	0.0105	0.0040	16.44%	1.94	0.0017	6.05%
165.99	Acid Soluble Boron , Other (0.04%)	24	23	0.0734	0.0828	0.0571	0.0116	0.0114	0.0030	19.96%	2.30	0.0322	6.15%
171.10	Water Soluble Boron , Spectrophotometric (%)	3	3	0.0513	0.0085	0.0513		0.0085	0.0061	16.57%		0.0040	6.25%
171.99	Water Soluble Boron , Other (%)	4	4	0.0778	0.0278	0.0778		0.0278	0.0174	35.79%		0.0095	5.87%
181.00	Acid Soluble Cadmium , AA, test portion as in 2006... (	2	2	5.160	0.5940								
181.30	Acid Soluble Cadmium , ICP (ppm)	8	8	2.611	0.5816	2.611		0.6595	0.2915	25.26%		0.0931	13.84%
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified w/9:3..	6	5	3.157	0.2485	3.157		0.2485	0.1389	7.87%		0.0825	13.46%
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm	3	3	2.814	1.187	2.814		1.187	0.8565	42.18%		0.8957	13.69%
181.99	Acid Soluble Cadmium , Other (ppm)	6	6	3.411	0.9504	3.298		0.8013	0.4089	24.30%		0.0733	13.37%
191.00	Acid Soluble Chromium , AA, test portion as in 200... (I	2	2	77.45	43.40								
191.30	Acid Soluble Chromium , ICP (ppm)	6	6	56.46	8.909	56.46		10.10	5.156	17.90%		1.533	8.72%
191.33	Acid Soluble Chromium , ICP, 2006.03 modified w/9:....	8	8	69.13	4.740	68.78		4.534	2.004	6.59%		2.509	8.46%
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppn	3	3	59.69	15.82	59.69		15.82	11.41	26.50%		4.467	8.64%
191.99	Acid Soluble Chromium , Other (ppm)	6	6	68.99	7.037	68.99		7.980	4.072	11.57%		2.854	8.46%
202.00	Acid Soluble Cobalt , AA, test portion as in 2006.... (pp	1		13.00									
202.30	Acid Soluble Cobalt , ICP (ppm)	5	5	2.638	0.6868	2.638	1.7913	0.6868	0.3839	26.04%	0.89	0.3815	13.82%
202.32	Acid Soluble Cobalt , ICP, 2006.03 (ppm)	1		4.140									
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w/9:3 ... (I	8	7	4.048	1.599	4.403	2.3209	0.8710	0.4115	19.78%	0.87	0.2830	12.80%
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	3	3	3.163	1.203	3.163	1.9489	1.203	0.8679	38.02%	1.44	0.9567	13.45%
202.99	Acid Soluble Cobalt , Other (ppm)	7	6	3.839	1.155	3.839	2.1516	1.309	0.6683	34.11%	1.42	0.0941	13.06%
221.30	Acid Soluble Copper , ICP, test portion inorganic ... (%)	6	5	0.0030	0.0040	0.0030	0.0053	0.0040	0.0022	131.54%	1.75	0.0008	9.57%
221.32	Acid Soluble Copper , ICP, test portion 2006.03A-C (%)	3	3	0.0003	0.0002	0.0003	0.0050	0.0002	0.0001	57.74%	0.08	0.0000	13.56%
221.33	Acid Soluble Copper , ICP, test portion 2006.03A-C... (I	7	7	0.0006	0.0004	0.0006	0.0051	0.0004	0.0002	66.19%	0.19	0.0002	12.15%
221.99	Acid Soluble Copper , Other (%)	5	5	0.6071	1.356	0.6071	0.0657	1.356	0.7581	223.37%	48.08	0.0573	4.31%
241.03	Acid Soluble Iron, AA, 965.09, test portion 2006.0... (%)	1		0.6212									
241.30	Acid Soluble Iron, ICP, test portion inorganic 965... (%)	9	8	0.6479	0.0268	0.6475	0.0698	0.0295	0.0130	4.56%	0.99	0.0129	4.27%
241.32	Acid Soluble Iron, ICP, test portion 2006.03A-C (%)	2	2	0.6293	0.0159								
241.33	Acid Soluble Iron, ICP, test portion 2006.03A-C, w... (%)	12	12	0.6113	0.0323	0.6114	0.0661	0.0314	0.0113	5.14%	1.11	0.0174	4.31%
241.99	Acid Soluble Iron, Other (%)	2	2	0.5870	0.0829								
251.00	Acid Soluble Lead , AA, test portion as in 2006.03... (p	2	2	15.53	20.01								
251.30	Acid Soluble Lead , ICP (ppm)	8	7	3.704	1.237	3.671		1.328	0.6276	36.18%		0.2251	13.15%
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9:3 HN...	6	6	4.326	1.103	4.269		1.116	0.5694	26.14%		0.6960	12.86%
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	3	2	3.262	0.3709	3.262		0.3709	0.3278	11.37%		1.485	13.39%
251.99	Acid Soluble Lead , Other (ppm)	6	6	5.383	2.989	4.946		2.311	1.179	46.72%		0.1458	12.58%
261.15	Acid Soluble Manganese , AA, 965.09, test portion ... (I	1		0.0177									
261.30	Acid Soluble Manganese , ICP, test portion 972.02a (%)	4	4	0.0168	0.0046	0.0168	0.0067	0.0046	0.0029	27.36%	1.60	0.0003	7.40%
261.31	Acid Soluble Manganese , ICP, test portion 972.02b (%)	1		0.0200									
261.32	Acid Soluble Manganese , ICP, test portion inorgan... (I	5	5	13.75	30.66	13.75	1.0000	30.66	17.14	222.91%	71.44	1.410	2.70%
261.34	Acid Soluble Manganese , ICP, test portion 2006.03...	2	2	0.0194	0.0016								
261.35	Acid Soluble Manganese , ICP, test portion 2006.03...	10	9	0.0182	0.0012	0.0183	0.0068	0.0011	0.0004	5.87%	0.37	0.0006	7.30%
261.99	Acid Soluble Manganese , Other (%)	2	2	0.0170	0.0006								
281.30	Acid Soluble Mercury , ICP (ppm)	1		0.0000									

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281.99	Acid Soluble Mercury , Other (ppm)	1		0.0150									
289.30	Acid Soluble Molybdenum , ICP (ppm)	7	6	11.32	11.32	8.213	3.4640	4.730	2.414	57.58%	3.18	0.3556	11.65%
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (ppm)	1		6.677									
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modified w/..	11	11	7.913	0.7523	7.873	3.3619	0.7593	0.2862	9.64%	0.53	0.7962	11.73%
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010C (p	3	3	8.009	4.068	8.009	3.4026	4.068	2.936	50.80%	2.79	1.001	11.70%
289.99	Acid Soluble Molybdenum , Other (ppm)	5	5	8.101	3.455	8.101	3.4304	3.455	1.932	42.65%	2.35	0.7279	11.68%
291.00	Acid Soluble Nickel , AA, test portion as in 2006.... (pp	1		43.48									
291.30	Acid Soluble Nickel , ICP (ppm)	7	6	11.96	1.874	11.96		2.125	1.084	17.77%		0.5548	11.01%
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w/9:3 ... (p	8	8	17.57	2.987	16.82		1.256	0.5550	7.47%		1.293	10.46%
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	3	3	12.92	3.312	12.92		3.312	2.390	25.64%		1.390	10.88%
291.99	Acid Soluble Nickel , Other (ppm)	7	6	16.99	2.734	16.76		2.537	1.295	15.14%		0.1508	10.47%
301.30	Acid Soluble Selenium , ICP (ppm)	2	2	0.4235	0.1435								
301.33	Acid Soluble Selenium , ICP, 2006.03 modified w/9:...	3	2	5.500	0.6364	5.500		0.6364	0.5625	11.57%		0.8700	12.38%
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	2	1	2.061									
301.99	Acid Soluble Selenium , Other (ppm)	5	5	10.26	12.02	10.26		12.02	6.717	117.06%		0.5396	11.27%
311.32	Sodium, ICP, 2006.03 test portion (%)	1		0.3826									
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl test .	7	7	0.4114	0.0522	0.4114	0.0461	0.0592	0.0280	14.38%	2.99	0.0183	4.57%
311.99	Sodium, Other (%)	3	3	0.4000	0.0087	0.4000	0.0450	0.0087	0.0062	2.17%	0.45	0.0200	4.59%
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.02%)	8	8	0.0276	0.0092	0.0257	0.0076	0.0052	0.0023	20.16%	1.60	0.0023	6.94%
321.03	Acid Soluble Zinc , AA, 965.09, test portion 2006.... (0.	1		0.0289									
321.30	Acid Soluble Zinc , ICP, test portion inorganic 96... (0.0	19	18	0.0305	0.0155	0.0278	0.0078	0.0046	0.0013	16.40%	1.36	0.0025	6.86%
321.32	Acid Soluble Zinc , ICP, test portion 2006.03A-C ... (0.	4	4	0.0276	0.0092	0.0276	0.0078	0.0092	0.0058	33.50%	2.78	0.0008	6.87%
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, ... (0.	17	16	0.0265	0.0024	0.0265	0.0077	0.0018	0.0006	6.95%	0.56	0.0025	6.91%
321.99	Acid Soluble Zinc , Other (0.02%)	11	10	0.0248	0.0042	0.0248	0.0075	0.0047	0.0019	19.02%	1.47	0.0012	6.98%
325.30	Water Soluble Zinc , ICP (%)	1		0.0295									

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.

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 180411

Grade 12-24-12

Method Precision Report

Issue Date : 05/31/2018

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
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	11	9	8.119	0.4152	0.4121	0.0712	0.4182	5.08%	0.88%	5.15%	5.873
001.99	Ammoniacal Nitrogen, Other (%)	27	25	8.370	0.2374	0.2310	0.0773	0.2436	2.76%	0.92%	2.91%	3.153
002.99	Nitrate Nitrogen, Other (%)	21	20	3.315	0.1734	0.1675	0.0635	0.1791	5.05%	1.92%	5.40%	2.820
010.11	Total Nitrogen, Modified Comprehensive (12%)	10	10	11.76	0.6199	0.6144	0.1160	0.6253	5.23%	0.99%	5.32%	5.388
010.60	Total Nitrogen, Combustion (12%)	63	59	11.85	0.1568	0.1509	0.0601	0.1625	1.27%	0.51%	1.37%	2.701
010.99	Total Nitrogen, Other (12%)	11	10	11.62	0.5789	0.5773	0.0602	0.5804	4.97%	0.52%	4.99%	9.645
020.20	Total Phosphorus as P2O5, Spectrophotometric MolybdovanadoP (%)	21	19	25.51	0.5353	0.5192	0.1842	0.5509	2.03%	0.72%	2.16%	2.990
020.50	Total Phosphorus as P2O5, ICP (%)	24	22	25.99	1.313	1.260	0.5221	1.364	4.85%	2.01%	5.25%	2.612
041.51	Direct Available Phosphorus as P2O5, ICP, Citrate-EDTA Ext. (24%)	11	9	25.27	0.7524	0.7432	0.1659	0.7615	2.94%	0.66%	3.01%	4.590
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA Ext. (24%)	12	11	25.20	0.6665	0.6605	0.1257	0.6724	2.62%	0.50%	2.67%	5.351
041.99	Direct Available Phosphorus as P2O5, Other (24%)	11	10	25.02	0.6807	0.6710	0.1622	0.6903	2.68%	0.65%	2.76%	4.256
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	13	12	12.72	0.4232	0.4160	0.1095	0.4302	3.27%	0.86%	3.38%	3.930
050.50	Soluble Potassium as K2O, ICP (Oxalate) (12%)	9	9	12.88	0.4586	0.3893	0.3427	0.5187	3.02%	2.66%	4.03%	1.513
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	15	15	13.16	0.5570	0.5236	0.2689	0.5886	3.98%	2.04%	4.47%	2.189
050.99	Soluble Potassium as K2O, Other (12%)	38	34	12.91	0.6902	0.6800	0.1667	0.7002	5.27%	1.29%	5.42%	4.200
101.30	Acid Soluble Calcium, ICP, test portion inorganic 965.09 (%)	8	8	4.344	0.4111	0.4074	0.0779	0.4148	9.38%	1.79%	9.55%	5.324
121.30	Acid Soluble Magnesium, ICP, test portion inorganic 965.09 (1.2%)	20	17	1.454	0.1205	0.1194	0.0231	0.1216	8.21%	1.59%	8.36%	5.261
121.33	Acid Soluble Magnesium, ICP, test portion 2006.03A-C, w/dual acid (1.2%)	18	17	1.435	0.1214	0.1194	0.0309	0.1233	8.32%	2.15%	8.59%	3.992
121.99	Acid Soluble Magnesium, Other (1.2%)	12	11	1.379	0.1419	0.1350	0.0614	0.1483	9.79%	4.45%	10.76%	2.416
148.01	Total Sulfur, Gravimetric - sulfate and elemental (1%)	10	10	1.276	0.1310	0.1247	0.0568	0.1370	9.78%	4.46%	10.74%	2.411
148.07	Total Sulfur, ICP, test portion as in 2006.03 modified w/9:3 HNO3:HCl (1%)	16	14	1.119	0.0829	0.0815	0.0209	0.0842	7.29%	1.87%	7.52%	4.021
148.99	Total Sulfur, Other (1%)	10	10	1.154	0.0963	0.0925	0.0380	0.1000	8.01%	3.29%	8.66%	2.629
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	12	10	0.0523	0.0134	0.0133	0.0027	0.0136	25.44%	5.17%	25.96%	5.018
165.30	Acid Soluble Boron , ICP, test portion in 982.01 (0.04%)	12	11	0.0639	0.0093	0.0092	0.0017	0.0093	14.38%	2.65%	14.62%	5.522
165.99	Acid Soluble Boron , Other (0.04%)	24	22	0.0563	0.0108	0.0106	0.0030	0.0110	18.84%	5.33%	19.58%	3.677
191.33	Acid Soluble Chromium , ICP, 2006.03 modified w/9:3 HNO3:HCl (ppm)	8	8	69.13	4.740	4.414	2.443	5.045	6.38%	3.53%	7.30%	2.065
241.30	Acid Soluble Iron, ICP, test portion inorganic 965.09 (%)	9	8	0.6479	0.0268	0.0251	0.0134	0.0284	3.87%	2.07%	4.39%	2.124
241.33	Acid Soluble Iron, ICP, test portion 2006.03A-C, w/dual acid (%)	12	11	0.6114	0.0338	0.0328	0.0117	0.0348	5.37%	1.91%	5.70%	2.979
261.35	Acid Soluble Manganese , ICP, test portion 2006.03A-C, w/dual acid (%)	10	8	0.0183	0.0012	0.0012	0.0004	0.0013	6.62%	2.09%	6.94%	3.316
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modified w/9:3 HNO3:HCl (ppm)	11	10	7.894	0.7902	0.6671	0.5991	0.8966	8.45%	7.59%	11.36%	1.497

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
321.30	Acid Soluble Zinc , ICP, test portion inorganic 965.09 (0.02%)	19	17	0.0270	0.0046	0.0043	0.0021	0.0048	16.06%	7.72%	17.81%	2.309
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, w/dual acid (0.02%)	17	14	0.0270	0.0019	0.0014	0.0019	0.0024	5.01%	7.21%	8.78%	1.218
321.99	Acid Soluble Zinc , Other (0.02%)	11	10	0.0248	0.0042	0.0041	0.0012	0.0043	16.74%	4.89%	17.45%	3.565

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: 140

Sample # 180411

Lab Values

Labs Reporting: 104

Grade 12-24-12

Issue Date : 05/31/2018

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				
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0309	7.115	0.1500	8.096	0.4014	0.1049	10	-2.27	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0230	7.510	0.3600	8.096	0.4014	0.1049	10	-1.36	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0177	7.978	0.0092	8.096	0.4014	0.1049	10	-0.27	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0231	8.070	0.0400	8.096	0.4014	0.1049	10	-0.06	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0451	8.125	0.0100	8.096	0.4014	0.1049	10	0.07	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0169	8.200	0.0200	8.096	0.4014	0.1049	10	0.24	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0405	8.230	0.1000	8.096	0.4014	0.1049	10	0.31	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0535	8.425	0.0500	8.096	0.4014	0.1049	10	0.76	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0498	8.450	0.1000	8.096	0.4014	0.1049	10	0.82	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0444	8.475	0.2100	8.096	0.4014	0.1049	10	0.88	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0486	8.390	0.6600	8.096	0.4014	0.1049	10	0.68	NA	1
001.99	Ammoniacal Nitrogen, Other (%)	0415	7.806	0.0067	8.404	0.2477	0.0805	27	-2.42	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0394	7.985	0.0530	8.404	0.2477	0.0805	27	-1.69	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0368	8.013	0.0020	8.404	0.2477	0.0805	27	-1.58	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0546	8.190	0.1600	8.404	0.2477	0.0805	27	-0.86	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0510	8.193	0.1415	8.404	0.2477	0.0805	27	-0.85	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0522	8.270	0.0400	8.404	0.2477	0.0805	27	-0.54	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0027	8.300	0.1400	8.404	0.2477	0.0805	27	-0.42	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0489	8.305	0.0100	8.404	0.2477	0.0805	27	-0.40	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0524	8.305	0.0100	8.404	0.2477	0.0805	27	-0.40	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0220	8.320	0.0200	8.404	0.2477	0.0805	27	-0.34	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0545	8.335	0.0300	8.404	0.2477	0.0805	27	-0.28	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0096	8.345	0.0300	8.404	0.2477	0.0805	27	-0.24	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0535	8.350	0.1000	8.404	0.2477	0.0805	27	-0.22	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0538	8.380	0.0400	8.404	0.2477	0.0805	27	-0.10	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0300	8.395	0.0100	8.404	0.2477	0.0805	27	-0.04	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0371	8.405	0.0300	8.404	0.2477	0.0805	27	0.00	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0255	8.430	0.2600	8.404	0.2477	0.0805	27	0.10	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0423	8.455	0.0900	8.404	0.2477	0.0805	27	0.21	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0540	8.490	0.0200	8.404	0.2477	0.0805	27	0.35	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0550	8.495	0.0500	8.404	0.2477	0.0805	27	0.37	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0537	8.560	0.2600	8.404	0.2477	0.0805	27	0.63	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0539	8.590	0.0200	8.404	0.2477	0.0805	27	0.75	NA	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				
001.99	Ammoniacal Nitrogen, Other (%)	0533	8.600	0.1800	8.404	0.2477	0.0805	27	0.79	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0532	8.840	0.1800	8.404	0.2477	0.0805	27	1.76	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0519	8.885	0.0500	8.404	0.2477	0.0805	27	1.94	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0549	9.250	0.1000	8.404	0.2477	0.0805	27	3.42	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0481	9.270	0.1400	8.404	0.2477	0.0805	27	3.50	NA	0
002.10	Nitrate Nitrogen, Robertson (%)	0498	3.700	0.2000				1			0
002.20	Nitrate Nitrogen, Jones Modified (%)	0230	5.050	0.0200				1			0
002.99	Nitrate Nitrogen, Other (%)	0533	2.830	0.0400	3.341	0.1703	0.0700	21	-3.00	NA	0
002.99	Nitrate Nitrogen, Other (%)	0029	3.080	0.0400	3.341	0.1703	0.0700	21	-1.53	NA	0
002.99	Nitrate Nitrogen, Other (%)	0545	3.130	0.0200	3.341	0.1703	0.0700	21	-1.24	NA	0
002.99	Nitrate Nitrogen, Other (%)	0532	3.150	0.1400	3.341	0.1703	0.0700	21	-1.12	NA	0
002.99	Nitrate Nitrogen, Other (%)	0537	3.250	0.1400	3.341	0.1703	0.0700	21	-0.53	NA	0
002.99	Nitrate Nitrogen, Other (%)	0539	3.280	0.0400	3.341	0.1703	0.0700	21	-0.36	NA	0
002.99	Nitrate Nitrogen, Other (%)	0394	3.284	0.0020	3.341	0.1703	0.0700	21	-0.33	NA	0
002.99	Nitrate Nitrogen, Other (%)	0423	3.290	0.0200	3.341	0.1703	0.0700	21	-0.30	NA	0
002.99	Nitrate Nitrogen, Other (%)	0368	3.292	0.0590	3.341	0.1703	0.0700	21	-0.29	NA	0
002.99	Nitrate Nitrogen, Other (%)	0519	3.305	0.0100	3.341	0.1703	0.0700	21	-0.21	NA	0
002.99	Nitrate Nitrogen, Other (%)	0550	3.325	0.1700	3.341	0.1703	0.0700	21	-0.09	NA	0
002.99	Nitrate Nitrogen, Other (%)	0027	3.350	0.1000	3.341	0.1703	0.0700	21	0.05	NA	0
002.99	Nitrate Nitrogen, Other (%)	0540	3.380	0.0400	3.341	0.1703	0.0700	21	0.23	NA	0
002.99	Nitrate Nitrogen, Other (%)	0535	3.425	0.0500	3.341	0.1703	0.0700	21	0.49	NA	0
002.99	Nitrate Nitrogen, Other (%)	0549	3.425	0.0500	3.341	0.1703	0.0700	21	0.49	NA	0
002.99	Nitrate Nitrogen, Other (%)	0538	3.430	0.1400	3.341	0.1703	0.0700	21	0.52	NA	0
002.99	Nitrate Nitrogen, Other (%)	0481	3.480	0.0200	3.341	0.1703	0.0700	21	0.82	NA	0
002.99	Nitrate Nitrogen, Other (%)	0231	3.515	0.0300	3.341	0.1703	0.0700	21	1.02	NA	0
002.99	Nitrate Nitrogen, Other (%)	0371	3.535	0.2100	3.341	0.1703	0.0700	21	1.14	NA	0
002.99	Nitrate Nitrogen, Other (%)	0486	3.545	0.0500	3.341	0.1703	0.0700	21	1.20	NA	0
002.99	Nitrate Nitrogen, Other (%)	0546	4.310	0.1000	3.341	0.1703	0.0700	21	5.69	NA	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0444	3.480	0.1000	10.08	3.695	0.0976	5	-1.79		0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0489	11.51	0.0100	10.08	3.695	0.0976	5	0.39		0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0169	11.54	0.0900	10.08	3.695	0.0976	5	0.39		0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0537	11.81	0.1200	10.08	3.695	0.0976	5	0.47		0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0397	12.06	0.1679	10.08	3.695	0.0976	5	0.54		0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0309	10.85	0.0800	11.73	0.6293	0.1233	10	-1.30	Low	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0522	11.11	0.0100	11.73	0.6293	0.1233	10	-0.92	Low	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0415	11.46	0.0695	11.73	0.6293	0.1233	10	-0.39	OK	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0114	11.64	0.3400	11.73	0.6293	0.1233	10	-0.13	OK	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0416	11.68	0.1200	11.73	0.6293	0.1233	10	-0.07	OK	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0220	11.69	0.0700	11.73	0.6293	0.1233	10	-0.06	OK	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0105	11.73	0.1100	11.73	0.6293	0.1233	10	0.00	OK	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0537	11.95	0.0500	11.73	0.6293	0.1233	10	0.32	OK	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0546	12.50	0.0600	11.73	0.6293	0.1233	10	1.14	High	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0510	12.99	0.3239	11.73	0.6293	0.1233	10	1.86	High	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				
010.12	Total Nitrogen, Salicylic (12%)	0117	10.23	0.5400	11.22	0.8032	0.2287	4	-1.24		0
010.12	Total Nitrogen, Salicylic (12%)	0544	11.05	0.0300	11.22	0.8032	0.2287	4	-0.22		0
010.12	Total Nitrogen, Salicylic (12%)	0415	11.46	0.0446	11.22	0.8032	0.2287	4	0.30		0
010.12	Total Nitrogen, Salicylic (12%)	0498	12.15	0.3000	11.22	0.8032	0.2287	4	1.15		0
010.60	Total Nitrogen, Combustion (12%)	0027	11.52	0.4000	11.85	0.1697	0.0726	61	-1.94	OK	0
010.60	Total Nitrogen, Combustion (12%)	0472	11.57	0.0100	11.85	0.1697	0.0726	61	-1.67	OK	0
010.60	Total Nitrogen, Combustion (12%)	0389	11.60	0.0700	11.85	0.1697	0.0726	61	-1.49	OK	0
010.60	Total Nitrogen, Combustion (12%)	0023	11.64	0.1380	11.85	0.1697	0.0726	61	-1.20	OK	0
010.60	Total Nitrogen, Combustion (12%)	0234	11.65	0.0800	11.85	0.1697	0.0726	61	-1.17	OK	0
010.60	Total Nitrogen, Combustion (12%)	0035	11.66	0.0100	11.85	0.1697	0.0726	61	-1.14	OK	0
010.60	Total Nitrogen, Combustion (12%)	0106	11.66	0.0400	11.85	0.1697	0.0726	61	-1.11	OK	0
010.60	Total Nitrogen, Combustion (12%)	0390	11.67	0.1300	11.85	0.1697	0.0726	61	-1.08	OK	0
010.60	Total Nitrogen, Combustion (12%)	0368	11.67	0.0900	11.85	0.1697	0.0726	61	-1.05	OK	0
010.60	Total Nitrogen, Combustion (12%)	0018	11.70	0.0000	11.85	0.1697	0.0726	61	-0.87	OK	0
010.60	Total Nitrogen, Combustion (12%)	0043	11.70	0.1000	11.85	0.1697	0.0726	61	-0.87	OK	0
010.60	Total Nitrogen, Combustion (12%)	0177	11.72	0.0500	11.85	0.1697	0.0726	61	-0.79	OK	0
010.60	Total Nitrogen, Combustion (12%)	0543	11.72	0.0680	11.85	0.1697	0.0726	61	-0.79	OK	0
010.60	Total Nitrogen, Combustion (12%)	0041	11.74	0.0500	11.85	0.1697	0.0726	61	-0.67	OK	0
010.60	Total Nitrogen, Combustion (12%)	0105	11.75	0.0300	11.85	0.1697	0.0726	61	-0.61	OK	0
010.60	Total Nitrogen, Combustion (12%)	0055	11.75	0.0600	11.85	0.1697	0.0726	61	-0.58	OK	0
010.60	Total Nitrogen, Combustion (12%)	0481	11.75	0.1000	11.85	0.1697	0.0726	61	-0.58	OK	0
010.60	Total Nitrogen, Combustion (12%)	0482	11.75	0.1000	11.85	0.1697	0.0726	61	-0.58	OK	0
010.60	Total Nitrogen, Combustion (12%)	0360	11.76	0.0000	11.85	0.1697	0.0726	61	-0.52	OK	0
010.60	Total Nitrogen, Combustion (12%)	0405	11.77	0.0300	11.85	0.1697	0.0726	61	-0.49	OK	0
010.60	Total Nitrogen, Combustion (12%)	0451	11.77	0.0300	11.85	0.1697	0.0726	61	-0.49	OK	0
010.60	Total Nitrogen, Combustion (12%)	0483	11.77	0.0000	11.85	0.1697	0.0726	61	-0.46	OK	0
010.60	Total Nitrogen, Combustion (12%)	0028	11.78	0.1600	11.85	0.1697	0.0726	61	-0.40	OK	0
010.60	Total Nitrogen, Combustion (12%)	0034	11.78	0.0200	11.85	0.1697	0.0726	61	-0.40	OK	0
010.60	Total Nitrogen, Combustion (12%)	0037	11.79	0.1390	11.85	0.1697	0.0726	61	-0.36	OK	0
010.60	Total Nitrogen, Combustion (12%)	0086	11.79	0.0130	11.85	0.1697	0.0726	61	-0.35	OK	0
010.60	Total Nitrogen, Combustion (12%)	0007	11.80	0.0000	11.85	0.1697	0.0726	61	-0.29	OK	0
010.60	Total Nitrogen, Combustion (12%)	0157	11.80	0.0000	11.85	0.1697	0.0726	61	-0.29	OK	0
010.60	Total Nitrogen, Combustion (12%)	0523	11.80	0.0000	11.85	0.1697	0.0726	61	-0.29	OK	0
010.60	Total Nitrogen, Combustion (12%)	0527	11.81	0.0990	11.85	0.1697	0.0726	61	-0.21	OK	0
010.60	Total Nitrogen, Combustion (12%)	0231	11.82	0.0800	11.85	0.1697	0.0726	61	-0.17	OK	0
010.60	Total Nitrogen, Combustion (12%)	0486	11.84	0.0100	11.85	0.1697	0.0726	61	-0.08	OK	0
010.60	Total Nitrogen, Combustion (12%)	0136	11.84	0.0200	11.85	0.1697	0.0726	61	-0.05	OK	0
010.60	Total Nitrogen, Combustion (12%)	0292	11.85	0.0100	11.85	0.1697	0.0726	61	-0.02	OK	0
010.60	Total Nitrogen, Combustion (12%)	0233	11.85	0.0900	11.85	0.1697	0.0726	61	-0.02	OK	0
010.60	Total Nitrogen, Combustion (12%)	0040	11.85	0.1000	11.85	0.1697	0.0726	61	0.01	OK	0
010.60	Total Nitrogen, Combustion (12%)	0377	11.87	0.0400	11.85	0.1697	0.0726	61	0.13	OK	0
010.60	Total Nitrogen, Combustion (12%)	0494	11.88	0.0000	11.85	0.1697	0.0726	61	0.19	OK	0
010.60	Total Nitrogen, Combustion (12%)	0356	11.89	0.2100	11.85	0.1697	0.0726	61	0.22	OK	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
010.60	Total Nitrogen, Combustion (12%)	0547	11.90	0.0100	11.85	0.1697	0.0726	61	0.27	OK	0
010.60	Total Nitrogen, Combustion (12%)	0324	11.90	0.0000	11.85	0.1697	0.0726	61	0.30	OK	0
010.60	Total Nitrogen, Combustion (12%)	0049	11.94	0.1300	11.85	0.1697	0.0726	61	0.51	OK	0
010.60	Total Nitrogen, Combustion (12%)	0550	11.94	0.1000	11.85	0.1697	0.0726	61	0.54	OK	0
010.60	Total Nitrogen, Combustion (12%)	0255	11.95	0.0900	11.85	0.1697	0.0726	61	0.59	OK	0
010.60	Total Nitrogen, Combustion (12%)	0354	11.95	0.1000	11.85	0.1697	0.0726	61	0.60	OK	0
010.60	Total Nitrogen, Combustion (12%)	0291	11.96	0.0100	11.85	0.1697	0.0726	61	0.63	OK	0
010.60	Total Nitrogen, Combustion (12%)	0444	11.96	0.1100	11.85	0.1697	0.0726	61	0.63	OK	0
010.60	Total Nitrogen, Combustion (12%)	0029	11.98	0.0700	11.85	0.1697	0.0726	61	0.75	OK	0
010.60	Total Nitrogen, Combustion (12%)	0073	12.02	0.0900	11.85	0.1697	0.0726	61	0.98	OK	0
010.60	Total Nitrogen, Combustion (12%)	0452	12.03	0.0300	11.85	0.1697	0.0726	61	1.04	OK	0
010.60	Total Nitrogen, Combustion (12%)	0025	12.04	0.1600	11.85	0.1697	0.0726	61	1.13	OK	0
010.60	Total Nitrogen, Combustion (12%)	0307	12.04	0.1130	11.85	0.1697	0.0726	61	1.14	OK	0
010.60	Total Nitrogen, Combustion (12%)	0501	12.05	0.0200	11.85	0.1697	0.0726	61	1.19	OK	0
010.60	Total Nitrogen, Combustion (12%)	0423	12.07	0.0800	11.85	0.1697	0.0726	61	1.31	OK	0
010.60	Total Nitrogen, Combustion (12%)	0521	12.08	0.0000	11.85	0.1697	0.0726	61	1.35	OK	0
010.60	Total Nitrogen, Combustion (12%)	0117	12.10	0.0000	11.85	0.1697	0.0726	61	1.48	OK	0
010.60	Total Nitrogen, Combustion (12%)	0421	12.10	0.0600	11.85	0.1697	0.0726	61	1.48	OK	0
010.60	Total Nitrogen, Combustion (12%)	0534	12.15	0.1000	11.85	0.1697	0.0726	61	1.78	OK	0
010.60	Total Nitrogen, Combustion (12%)	0402	12.16	0.2600	11.85	0.1697	0.0726	61	1.84	OK	0
010.60	Total Nitrogen, Combustion (12%)	0230	12.30	0.0000	11.85	0.1697	0.0726	61	2.66	OK	0
010.60	Total Nitrogen, Combustion (12%)	0443	12.63	0.3200	11.85	0.1697	0.0726	61	4.61	High	0
010.60	Total Nitrogen, Combustion (12%)	0542	11.65	0.6890	11.85	0.1697	0.0726	61	-1.18	OK	1
010.60	Total Nitrogen, Combustion (12%)	0325	12.30	0.8000	11.85	0.1697	0.0726	61	2.66	OK	1
010.99	Total Nitrogen, Other (12%)	0522	10.42	0.0400	11.69	0.4682	0.0904	11	-2.54	Low	0
010.99	Total Nitrogen, Other (12%)	0476	11.26	0.1091	11.69	0.4682	0.0904	11	-0.87	OK	0
010.99	Total Nitrogen, Other (12%)	0520	11.29	0.0400	11.69	0.4682	0.0904	11	-0.80	OK	0
010.99	Total Nitrogen, Other (12%)	0545	11.47	0.0500	11.69	0.4682	0.0904	11	-0.45	OK	0
010.99	Total Nitrogen, Other (12%)	0493	11.60	0.1000	11.69	0.4682	0.0904	11	-0.18	OK	0
010.99	Total Nitrogen, Other (12%)	0300	11.77	0.0300	11.69	0.4682	0.0904	11	0.15	OK	0
010.99	Total Nitrogen, Other (12%)	0538	11.87	0.0600	11.69	0.4682	0.0904	11	0.35	OK	0
010.99	Total Nitrogen, Other (12%)	0519	11.99	0.0100	11.69	0.4682	0.0904	11	0.58	OK	0
010.99	Total Nitrogen, Other (12%)	0524	11.99	0.0150	11.69	0.4682	0.0904	11	0.59	OK	0
010.99	Total Nitrogen, Other (12%)	0532	12.01	0.3400	11.69	0.4682	0.0904	11	0.63	OK	0
010.99	Total Nitrogen, Other (12%)	0481	12.60	0.2000	11.69	0.4682	0.0904	11	1.81	High	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0105	25.71	0.0600	25.79	0.0702	0.1280	5	-1.20		0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0157	25.75	0.1000	25.79	0.0702	0.1280	5	-0.63		0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0444	25.78	0.3400	25.79	0.0702	0.1280	5	-0.20		0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0493	25.85	0.1000	25.79	0.0702	0.1280	5	0.80		0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0114	25.88	0.0400	25.79	0.0702	0.1280	5	1.22		0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0550	24.42	0.5300	25.58	0.5283	0.2122	20	-2.20	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0534	24.61	0.0100	25.58	0.5283	0.2122	20	-1.84	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0309	24.67	0.4500	25.58	0.5283	0.2122	20	-1.73	NA	0

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020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0416	25.16	0.4900	25.58	0.5283	0.2122	20	-0.80	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0522	25.22	0.1900	25.58	0.5283	0.2122	20	-0.69	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0027	25.29	0.2900	25.58	0.5283	0.2122	20	-0.55	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0405	25.42	0.1400	25.58	0.5283	0.2122	20	-0.30	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0489	25.51	0.0100	25.58	0.5283	0.2122	20	-0.14	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0169	25.53	0.0600	25.58	0.5283	0.2122	20	-0.09	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0371	25.70	0.0000	25.58	0.5283	0.2122	20	0.23	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0292	25.76	0.0200	25.58	0.5283	0.2122	20	0.34	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0510	25.77	0.2846	25.58	0.5283	0.2122	20	0.36	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0547	25.80	0.2000	25.58	0.5283	0.2122	20	0.42	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0481	25.83	0.3300	25.58	0.5283	0.2122	20	0.47	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0356	25.84	0.0500	25.58	0.5283	0.2122	20	0.49	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0324	25.85	0.3000	25.58	0.5283	0.2122	20	0.52	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0231	25.86	0.0200	25.58	0.5283	0.2122	20	0.53	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0394	25.95	0.0600	25.58	0.5283	0.2122	20	0.71	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0516	26.64	0.3100	25.58	0.5283	0.2122	20	2.00	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0300	29.19	0.5000	25.58	0.5283	0.2122	20	6.84	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0476	2.446	0.1165	25.58	0.5283	0.2122	20	-43.79	NA	2
020.30	Total Phosphorus as P2O5, Alkalimetric Quinol... (%)	0489	25.82	0.0400				1			0
020.40	Total Phosphorus as P2O5, Automated (%)	0105	25.67	0.2000	25.83	0.1823	0.1467	3	-0.90		0
020.40	Total Phosphorus as P2O5, Automated (%)	0096	25.80	0.1000	25.83	0.1823	0.1467	3	-0.18		0
020.40	Total Phosphorus as P2O5, Automated (%)	0035	26.03	0.1400	25.83	0.1823	0.1467	3	1.08		0
020.50	Total Phosphorus as P2O5, ICP (%)	0390	22.98	0.9700	26.12	1.373	0.6320	24	-2.29	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0157	24.35	0.5000	26.12	1.373	0.6320	24	-1.29	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0423	24.60	0.9900	26.12	1.373	0.6320	24	-1.11	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0501	24.80	0.0000	26.12	1.373	0.6320	24	-0.96	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0523	25.20	0.6000	26.12	1.373	0.6320	24	-0.67	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0444	25.21	0.3100	26.12	1.373	0.6320	24	-0.67	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0291	25.29	0.0200	26.12	1.373	0.6320	24	-0.60	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0421	25.55	0.1000	26.12	1.373	0.6320	24	-0.42	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0527	25.61	0.3000	26.12	1.373	0.6320	24	-0.37	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0521	25.66	0.0000	26.12	1.373	0.6320	24	-0.33	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0472	25.68	0.2500	26.12	1.373	0.6320	24	-0.32	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0433	25.74	0.0200	26.12	1.373	0.6320	24	-0.28	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0042	26.12	2.610	26.12	1.373	0.6320	24	0.00	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0552	26.13	1.170	26.12	1.373	0.6320	24	0.00	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0402	26.31	0.3200	26.12	1.373	0.6320	24	0.14	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0546	26.40	0.9600	26.12	1.373	0.6320	24	0.20	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0524	26.43	0.1161	26.12	1.373	0.6320	24	0.23	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0482	26.95	0.7000	26.12	1.373	0.6320	24	0.60	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0451	27.32	0.8900	26.12	1.373	0.6320	24	0.87	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0234	27.40	0.0400	26.12	1.373	0.6320	24	0.93	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0368	27.56	0.5073	26.12	1.373	0.6320	24	1.05	NA	0

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020.50	Total Phosphorus as P2O5, ICP (%)	0483	28.30	0.2300	26.12	1.373	0.6320	24	1.58	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0543	28.39	2.281	26.12	1.373	0.6320	24	1.66	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0255	31.01	1.283	26.12	1.373	0.6320	24	3.56	NA	0
020.99	Total Phosphorus as P2O5, Other (%)	0520	24.73	1.040	26.67	2.811	3.622	4	-0.69		0
020.99	Total Phosphorus as P2O5, Other (%)	0443	24.95	0.6900	26.67	2.811	3.622	4	-0.61		0
020.99	Total Phosphorus as P2O5, Other (%)	0519	26.23	0.0600	26.67	2.811	3.622	4	-0.16		0
020.99	Total Phosphorus as P2O5, Other (%)	0515	30.76	12.70	26.67	2.811	3.622	4	1.46		0
030.40	Citrate Insoluble Phosphorus as P2O5, Automat... (%)	0096	0.3950	0.0300				1			0
040.20	Indirect Available Phosphorus as P2O5, Spectr... (24%)	0405	24.92	0.1400				2			0
040.20	Indirect Available Phosphorus as P2O5, Spectr... (24%)	0300	27.98	0.0000				2			0
040.40	Indirect Available Phosphorus as P2O5, Automa... (24%)	0096	25.42	0.1300				1			0
040.99	Indirect Available Phosphorus as P2O5, Other (24%)	0394	0.8970	0.0080				1			0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0494	24.84	0.9400	25.19	0.2804	0.2771	7	-1.13	OK	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0009	25.00	0.0000	25.19	0.2804	0.2771	7	-0.61	OK	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0049	25.12	0.1900	25.19	0.2804	0.2771	7	-0.24	OK	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0177	25.17	0.4048	25.19	0.2804	0.2771	7	-0.05	OK	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0086	25.24	0.0551	25.19	0.2804	0.2771	7	0.16	OK	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0041	25.35	0.3300	25.19	0.2804	0.2771	7	0.50	OK	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0055	25.68	0.0200	25.19	0.2804	0.2771	7	1.58	OK	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0522	25.04	0.0400	25.54	0.5658	0.2160	6	-0.79	OK	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0220	25.14	0.0800	25.54	0.5658	0.2160	6	-0.63	OK	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0351	25.37	0.7033	25.54	0.5658	0.2160	6	-0.27	OK	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0105	25.38	0.1900	25.54	0.5658	0.2160	6	-0.26	OK	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0117	26.05	0.1000	25.54	0.5658	0.2160	6	0.81	OK	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (24%)	0485	26.26	0.1826	25.54	0.5658	0.2160	6	1.13	OK	0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (24%)	0498	24.15	0.9000				1			0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (24%)	0544	24.07	0.1300	24.61	0.6091	0.1375	4	-0.90		0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (24%)	0522	24.28	0.0600	24.61	0.6091	0.1375	4	-0.54		0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (24%)	0106	24.65	0.2600	24.61	0.6091	0.1375	4	0.06		0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (24%)	0535	25.45	0.1000	24.61	0.6091	0.1375	4	1.38		0
041.40	Direct Available Phosphorus as P2O5, Automate... (24%)	0230	23.05	2.900	24.80	1.516	1.273	3	-1.15		0
041.40	Direct Available Phosphorus as P2O5, Automate... (24%)	0018	25.65	0.9000	24.80	1.516	1.273	3	0.56		0
041.40	Direct Available Phosphorus as P2O5, Automate... (24%)	0028	25.70	0.0200	24.80	1.516	1.273	3	0.59		0
041.50	Direct Available Phosphorus as P2O5, ICP (24%)	0325	24.25	1.100	25.00	0.7672	0.5950	4	-0.98		0
041.50	Direct Available Phosphorus as P2O5, ICP (24%)	0452	24.43	0.0400	25.00	0.7672	0.5950	4	-0.74		0
041.50	Direct Available Phosphorus as P2O5, ICP (24%)	0007	25.60	1.200	25.00	0.7672	0.5950	4	0.78		0
041.50	Direct Available Phosphorus as P2O5, ICP (24%)	0233	25.72	0.0400	25.00	0.7672	0.5950	4	0.94		0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (24%)	0423	22.70	0.1300	25.14	0.9247	0.2188	11	-2.47	Low	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (24%)	0542	23.78	0.1000	25.14	0.9247	0.2188	11	-1.37	Low	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (24%)	0040	24.70	0.0000	25.14	0.9247	0.2188	11	-0.44	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (24%)	0360	24.90	0.0300	25.14	0.9247	0.2188	11	-0.24	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (24%)	0043	25.08	0.1000	25.14	0.9247	0.2188	11	-0.06	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (24%)	0037	25.33	0.8870	25.14	0.9247	0.2188	11	0.20	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				
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (24%)	0377	25.48	0.0300	25.14	0.9247	0.2188	11	0.34	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (24%)	0117	25.67	0.2000	25.14	0.9247	0.2188	11	0.54	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (24%)	0494	25.68	0.6200	25.14	0.9247	0.2188	11	0.55	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (24%)	0025	25.78	0.1800	25.14	0.9247	0.2188	11	0.65	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (24%)	0023	26.36	0.1300	25.14	0.9247	0.2188	11	1.23	High	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (24%)	0397	23.96	0.0700	25.32	0.8227	0.1996	12	-1.66	Low	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (24%)	0472	24.38	0.1000	25.32	0.8227	0.1996	12	-1.14	Low	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (24%)	0073	24.58	0.2100	25.32	0.8227	0.1996	12	-0.91	Low	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (24%)	0177	25.05	0.2047	25.32	0.8227	0.1996	12	-0.32	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (24%)	0029	25.12	0.3000	25.32	0.8227	0.1996	12	-0.24	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (24%)	0486	25.46	0.2900	25.32	0.8227	0.1996	12	0.16	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (24%)	0535	25.50	0.2000	25.32	0.8227	0.1996	12	0.22	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (24%)	0231	25.54	0.0500	25.32	0.8227	0.1996	12	0.26	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (24%)	0055	25.66	0.1300	25.32	0.8227	0.1996	12	0.41	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (24%)	0105	25.69	0.1100	25.32	0.8227	0.1996	12	0.44	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (24%)	0034	26.25	0.0300	25.32	0.8227	0.1996	12	1.12	High	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (24%)	0354	26.95	0.7000	25.32	0.8227	0.1996	12	1.98	High	0
041.99	Direct Available Phosphorus as P2O5, Other (24%)	0519	24.09	0.0100	25.02	0.7719	0.1830	10	-1.13	Low	0
041.99	Direct Available Phosphorus as P2O5, Other (24%)	0533	24.36	0.0600	25.02	0.7719	0.1830	10	-0.80	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (24%)	0545	24.47	0.0700	25.02	0.7719	0.1830	10	-0.67	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (24%)	0532	24.54	0.3200	25.02	0.7719	0.1830	10	-0.58	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (24%)	0549	24.65	0.1000	25.02	0.7719	0.1830	10	-0.45	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (24%)	0537	25.39	0.4700	25.02	0.7719	0.1830	10	0.44	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (24%)	0538	25.43	0.1500	25.02	0.7719	0.1830	10	0.48	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (24%)	0535	25.45	0.1000	25.02	0.7719	0.1830	10	0.52	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (24%)	0539	25.80	0.2900	25.02	0.7719	0.1830	10	0.93	High	0
041.99	Direct Available Phosphorus as P2O5, Other (24%)	0540	26.07	0.2600	25.02	0.7719	0.1830	10	1.26	High	0
041.99	Direct Available Phosphorus as P2O5, Other (24%)	0307	24.36	2.300	25.02	0.7719	0.1830	10	-0.80	OK	1
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0309	18.13	0.3600	18.33	0.2221	0.1727	3	-0.89		0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0522	18.29	0.1300	18.33	0.2221	0.1727	3	-0.19		0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0394	18.57	0.0280	18.33	0.2221	0.1727	3	1.08		0
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	0096	18.50	0.0000				1			0
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0230	11.95	0.1000	12.79	0.5244	0.1462	13	-1.59	Low	0
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0522	12.12	0.3100	12.79	0.5244	0.1462	13	-1.28	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0405	12.46	0.0100	12.79	0.5244	0.1462	13	-0.63	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0544	12.52	0.1700	12.79	0.5244	0.1462	13	-0.52	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0049	12.63	0.2600	12.79	0.5244	0.1462	13	-0.30	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0416	12.65	0.0000	12.79	0.5244	0.1462	13	-0.26	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0220	12.75	0.0200	12.79	0.5244	0.1462	13	-0.07	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0231	12.86	0.0600	12.79	0.5244	0.1462	13	0.14	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0489	12.98	0.0100	12.79	0.5244	0.1462	13	0.36	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0550	13.13	0.1800	12.79	0.5244	0.1462	13	0.66	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0494	13.23	0.2200	12.79	0.5244	0.1462	13	0.85	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				
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0055	13.33	0.0000	12.79	0.5244	0.1462	13	1.04	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (12%)	0114	14.13	0.5600	12.79	0.5244	0.1462	13	2.56	High	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (12%)	0309	12.54	0.2400	12.81	0.4619	0.2500	3	-0.59		0
050.30	Soluble Potassium as K2O, AA (Oxalate) (12%)	0040	12.55	0.1000	12.81	0.4619	0.2500	3	-0.57		0
050.30	Soluble Potassium as K2O, AA (Oxalate) (12%)	0356	13.35	0.4100	12.81	0.4619	0.2500	3	1.15		0
050.31	Soluble Potassium as K2O, AA (Citrate) (12%)	0472	11.84	0.3700				2			0
050.31	Soluble Potassium as K2O, AA (Citrate) (12%)	0498	12.50	0.2000				2			0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (12%)	0055	12.34	0.0100	12.88	0.5200	0.3962	9	-0.96	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (12%)	0157	12.35	0.9000	12.88	0.5200	0.3962	9	-0.94	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (12%)	0106	12.61	0.7100	12.88	0.5200	0.3962	9	-0.48	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (12%)	0390	12.61	0.3600	12.88	0.5200	0.3962	9	-0.48	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (12%)	0444	12.70	0.6000	12.88	0.5200	0.3962	9	-0.32	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (12%)	0086	13.07	0.3461	12.88	0.5200	0.3962	9	0.34	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (12%)	0324	13.30	0.4000	12.88	0.5200	0.3962	9	0.75	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (12%)	0397	13.36	0.0900	12.88	0.5200	0.3962	9	0.85	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (12%)	0292	13.58	0.1500	12.88	0.5200	0.3962	9	1.24	OK	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (12%)	0007	12.70	0.8000	12.98	0.2362	0.2000	5	-1.20		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (12%)	0483	12.77	0.0000	12.98	0.2362	0.2000	5	-0.91		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (12%)	0547	13.06	0.0400	12.98	0.2362	0.2000	5	0.32		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (12%)	0291	13.17	0.1300	12.98	0.2362	0.2000	5	0.77		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (12%)	0452	13.23	0.0300	12.98	0.2362	0.2000	5	1.02		0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0486	12.20	0.0100	13.14	0.5354	0.2953	15	-1.76	Low	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0037	12.59	0.1500	13.14	0.5354	0.2953	15	-1.03	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0377	12.66	0.1200	13.14	0.5354	0.2953	15	-0.89	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0360	12.72	0.2100	13.14	0.5354	0.2953	15	-0.79	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0542	12.77	0.3300	13.14	0.5354	0.2953	15	-0.69	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0043	13.01	0.1400	13.14	0.5354	0.2953	15	-0.24	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0117	13.04	0.2000	13.14	0.5354	0.2953	15	-0.18	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0543	13.06	0.5400	13.14	0.5354	0.2953	15	-0.14	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0025	13.20	0.2200	13.14	0.5354	0.2953	15	0.12	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0494	13.41	0.7100	13.14	0.5354	0.2953	15	0.50	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0423	13.44	0.1300	13.14	0.5354	0.2953	15	0.56	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0354	13.50	0.8000	13.14	0.5354	0.2953	15	0.68	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0233	13.60	0.6200	13.14	0.5354	0.2953	15	0.87	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0485	13.80	0.1600	13.14	0.5354	0.2953	15	1.24	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (12%)	0023	14.42	0.0900	13.14	0.5354	0.2953	15	2.39	High	0
050.60	Soluble Potassium as K2O, Flame Photometric ... (12%)	0443	11.69	0.1500	12.36	0.4690	0.0975	5	-1.44		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (12%)	0510	12.08	0.1877	12.36	0.4690	0.0975	5	-0.59		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (12%)	0041	12.59	0.0500	12.36	0.4690	0.0975	5	0.48		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (12%)	0169	12.60	0.0800	12.36	0.4690	0.0975	5	0.51		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (12%)	0105	12.85	0.0200	12.36	0.4690	0.0975	5	1.04		0
050.61	Soluble Potassium as K2O, Flame Photometric ... (12%)	0035	13.19	0.3400				2			0
050.61	Soluble Potassium as K2O, Flame Photometric ... (12%)	0535	13.25	0.1000				2			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				
050.62	Soluble Potassium as K2O, Flame Photometric (... (12%)	0029	12.42	0.4700	12.69	0.2577	0.2967	6	-0.93	OK	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (12%)	0018	12.55	0.5000	12.69	0.2577	0.2967	6	-0.47	OK	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (12%)	0034	12.59	0.1100	12.69	0.2577	0.2967	6	-0.35	OK	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (12%)	0105	12.74	0.0300	12.69	0.2577	0.2967	6	0.17	OK	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (12%)	0095	12.76	0.6500	12.69	0.2577	0.2967	6	0.24	OK	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (12%)	0028	13.21	0.0200	12.69	0.2577	0.2967	6	1.81	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0481	11.68	0.0200	12.96	0.7116	0.2172	37	-1.80	Low	0
050.99	Soluble Potassium as K2O, Other (12%)	0533	11.82	0.2300	12.96	0.7116	0.2172	37	-1.61	Low	0
050.99	Soluble Potassium as K2O, Other (12%)	0476	11.91	0.0754	12.96	0.7116	0.2172	37	-1.47	Low	0
050.99	Soluble Potassium as K2O, Other (12%)	0519	12.08	0.0100	12.96	0.7116	0.2172	37	-1.24	Low	0
050.99	Soluble Potassium as K2O, Other (12%)	0325	12.10	0.8000	12.96	0.7116	0.2172	37	-1.21	Low	0
050.99	Soluble Potassium as K2O, Other (12%)	0532	12.27	0.2900	12.96	0.7116	0.2172	37	-0.97	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0402	12.37	0.0700	12.96	0.7116	0.2172	37	-0.83	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0421	12.40	0.2000	12.96	0.7116	0.2172	37	-0.78	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0307	12.43	0.3500	12.96	0.7116	0.2172	37	-0.75	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0444	12.48	0.2600	12.96	0.7116	0.2172	37	-0.67	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0027	12.52	0.2200	12.96	0.7116	0.2172	37	-0.62	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0549	12.65	0.1000	12.96	0.7116	0.2172	37	-0.43	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0545	12.65	0.1400	12.96	0.7116	0.2172	37	-0.43	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0527	12.68	0.0400	12.96	0.7116	0.2172	37	-0.39	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0394	12.69	0.0120	12.96	0.7116	0.2172	37	-0.37	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0546	12.82	0.0900	12.96	0.7116	0.2172	37	-0.20	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0552	12.95	0.5900	12.96	0.7116	0.2172	37	-0.02	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0521	12.98	0.0000	12.96	0.7116	0.2172	37	0.04	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0433	13.02	0.0100	12.96	0.7116	0.2172	37	0.08	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0523	13.05	0.3000	12.96	0.7116	0.2172	37	0.13	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0520	13.09	0.3400	12.96	0.7116	0.2172	37	0.19	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0537	13.15	0.2100	12.96	0.7116	0.2172	37	0.26	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0539	13.16	0.1600	12.96	0.7116	0.2172	37	0.28	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0540	13.20	0.1000	12.96	0.7116	0.2172	37	0.34	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0177	13.21	0.1604	12.96	0.7116	0.2172	37	0.36	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0493	13.25	0.1000	12.96	0.7116	0.2172	37	0.41	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0535	13.25	0.1000	12.96	0.7116	0.2172	37	0.41	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0538	13.28	0.0500	12.96	0.7116	0.2172	37	0.45	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0255	13.36	1.071	12.96	0.7116	0.2172	37	0.56	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0524	13.65	0.0724	12.96	0.7116	0.2172	37	0.97	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0451	13.65	0.0600	12.96	0.7116	0.2172	37	0.97	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0042	13.69	1.100	12.96	0.7116	0.2172	37	1.03	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0516	13.69	0.2710	12.96	0.7116	0.2172	37	1.03	OK	0
050.99	Soluble Potassium as K2O, Other (12%)	0368	13.95	0.0750	12.96	0.7116	0.2172	37	1.40	High	0
050.99	Soluble Potassium as K2O, Other (12%)	0300	14.02	0.1000	12.96	0.7116	0.2172	37	1.49	High	0
050.99	Soluble Potassium as K2O, Other (12%)	0096	14.94	0.0600	12.96	0.7116	0.2172	37	2.78	High	0
050.99	Soluble Potassium as K2O, Other (12%)	0234	16.42	0.2000	12.96	0.7116	0.2172	37	4.86	High	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 (12%)	0482	11.65	2.300	12.96	0.7116	0.2172	37	-1.84	Low	1
060.00	Water (Free), Vacuum Oven (%)	0007	0.8600	0.0200	1.140	0.2425	0.0198	3	-1.15		0
060.00	Water (Free), Vacuum Oven (%)	0416	1.275	0.0094	1.140	0.2425	0.0198	3	0.56		0
060.00	Water (Free), Vacuum Oven (%)	0096	1.285	0.0300	1.140	0.2425	0.0198	3	0.60		0
060.99	Water (Free), Other (%)	0055	1.425	0.0500				2			0
060.99	Water (Free), Other (%)	0510	1.437	0.0029				2			0
101.03	Acid Soluble Calcium, AA, 965.09, test portio... (%)	0105	4.480	0.0120				1			0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0035	3.655	0.1300	4.344	0.4662	0.0888	8	-1.35	Low	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0354	4.140	0.1000	4.344	0.4662	0.0888	8	-0.40	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0482	4.190	0.2000	4.344	0.4662	0.0888	8	-0.30	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0096	4.195	0.1500	4.344	0.4662	0.0888	8	-0.29	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0472	4.380	0.0200	4.344	0.4662	0.0888	8	0.07	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0231	4.400	0.0800	4.344	0.4662	0.0888	8	0.11	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0402	4.855	0.0300	4.344	0.4662	0.0888	8	1.00	High	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0483	4.940	0.0000	4.344	0.4662	0.0888	8	1.17	High	0
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0521	4.191	0.0000				2			0
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0423	4.700	0.0200				2			0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0086	3.992	0.0693	4.191	0.1504	0.0847	7	-1.19	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0106	4.096	0.0346	4.191	0.1504	0.0847	7	-0.57	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0009	4.150	0.3000	4.191	0.1504	0.0847	7	-0.24	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0421	4.210	0.0600	4.191	0.1504	0.0847	7	0.12	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0117	4.224	0.1150	4.191	0.1504	0.0847	7	0.20	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0034	4.247	0.0000	4.191	0.1504	0.0847	7	0.34	OK	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0527	4.499	0.0140	4.191	0.1504	0.0847	7	1.85	OK	0
101.99	Acid Soluble Calcium, Other (%)	0552	4.780	0.2000				1			0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (1.2%)	0516	1.127	0.0132	1.501	0.1470	0.0400	8	-2.32	Low	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (1.2%)	0157	1.410	0.0000	1.501	0.1470	0.0400	8	-0.57	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (1.2%)	0040	1.435	0.0100	1.501	0.1470	0.0400	8	-0.41	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (1.2%)	0489	1.495	0.0100	1.501	0.1470	0.0400	8	-0.04	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (1.2%)	0169	1.540	0.0800	1.501	0.1470	0.0400	8	0.24	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (1.2%)	0498	1.550	0.1000	1.501	0.1470	0.0400	8	0.31	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (1.2%)	0029	1.576	0.0470	1.501	0.1470	0.0400	8	0.46	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (1.2%)	0309	2.350	0.0600	1.501	0.1470	0.0400	8	5.28	High	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 ... (1.2%)	0550	1.905	0.8500	1.501	0.1470	0.0400	8	2.51	High	1
121.03	Acid Soluble Magnesium, AA, 965.09, test port... (1.2%)	0105	1.386	0.0320				1			0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0230	0.8435	0.0130	1.438	0.1263	0.0303	19	-4.71	Low	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0360	1.212	0.0100	1.438	0.1263	0.0303	19	-1.79	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0035	1.265	0.0100	1.438	0.1263	0.0303	19	-1.37	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0444	1.345	0.0500	1.438	0.1263	0.0303	19	-0.74	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0231	1.370	0.0400	1.438	0.1263	0.0303	19	-0.54	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0291	1.395	0.0100	1.438	0.1263	0.0303	19	-0.34	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0041	1.400	0.1000	1.438	0.1263	0.0303	19	-0.30	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0157	1.400	0.0400	1.438	0.1263	0.0303	19	-0.30	OK	0

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121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0096	1.425	0.0500	1.438	0.1263	0.0303	19	-0.10	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0233	1.459	0.0380	1.438	0.1263	0.0303	19	0.17	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0354	1.475	0.0100	1.438	0.1263	0.0303	19	0.29	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0049	1.479	0.0349	1.438	0.1263	0.0303	19	0.32	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0482	1.490	0.0600	1.438	0.1263	0.0303	19	0.41	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0451	1.495	0.0300	1.438	0.1263	0.0303	19	0.45	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0234	1.500	0.0000	1.438	0.1263	0.0303	19	0.49	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0255	1.511	0.0430	1.438	0.1263	0.0303	19	0.57	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0483	1.580	0.0200	1.438	0.1263	0.0303	19	1.13	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0433	1.608	0.0070	1.438	0.1263	0.0303	19	1.34	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0472	1.705	0.0100	1.438	0.1263	0.0303	19	2.12	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1.2%)	0324	1.405	0.1500	1.438	0.1263	0.0303	19	-0.26	OK	1
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0292	1.450	0.0000	1.514	0.0528	0.0050	5	-1.22		0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0521	1.499	0.0000	1.514	0.0528	0.0050	5	-0.29		0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0423	1.503	0.0050	1.514	0.0528	0.0050	5	-0.22		0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0394	1.525	0.0100	1.514	0.0528	0.0050	5	0.20		0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0043	1.595	0.0100	1.514	0.0528	0.0050	5	1.53		0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0486	1.210	0.0000	1.433	0.1171	0.0400	18	-1.90	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0515	1.315	0.0547	1.433	0.1171	0.0400	18	-1.00	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0106	1.318	0.0235	1.433	0.1171	0.0400	18	-0.98	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0397	1.322	0.0413	1.433	0.1171	0.0400	18	-0.94	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0177	1.335	0.0226	1.433	0.1171	0.0400	18	-0.83	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0009	1.350	0.1000	1.433	0.1171	0.0400	18	-0.70	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0055	1.400	0.0400	1.433	0.1171	0.0400	18	-0.28	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0546	1.415	0.0100	1.433	0.1171	0.0400	18	-0.15	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0086	1.426	0.1401	1.433	0.1171	0.0400	18	-0.06	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0034	1.448	0.0280	1.433	0.1171	0.0400	18	0.13	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0494	1.465	0.0762	1.433	0.1171	0.0400	18	0.28	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0023	1.472	0.0210	1.433	0.1171	0.0400	18	0.33	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0037	1.476	0.0420	1.433	0.1171	0.0400	18	0.37	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0025	1.491	0.0330	1.433	0.1171	0.0400	18	0.49	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0421	1.520	0.0000	1.433	0.1171	0.0400	18	0.75	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0117	1.560	0.0140	1.433	0.1171	0.0400	18	1.09	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0527	1.617	0.0030	1.433	0.1171	0.0400	18	1.57	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1.2%)	0220	1.685	0.0700	1.433	0.1171	0.0400	18	2.16	OK	0
121.70	Acid Soluble Magnesium, Titrimetric (EDTA) (1.2%)	0522	1.505	0.0500	1.905	0.5261	0.0276	3	-0.76		0
121.70	Acid Soluble Magnesium, Titrimetric (EDTA) (1.2%)	0489	1.710	0.0200	1.905	0.5261	0.0276	3	-0.37		0
121.70	Acid Soluble Magnesium, Titrimetric (EDTA) (1.2%)	0476	2.501	0.0128	1.905	0.5261	0.0276	3	1.13		0
121.99	Acid Soluble Magnesium, Other (1.2%)	0027	1.114	0.0470	1.405	0.1744	0.0641	12	-1.67	Low	0
121.99	Acid Soluble Magnesium, Other (1.2%)	0476	1.233	0.0251	1.405	0.1744	0.0641	12	-0.99	OK	0
121.99	Acid Soluble Magnesium, Other (1.2%)	0519	1.290	0.0200	1.405	0.1744	0.0641	12	-0.66	OK	0
121.99	Acid Soluble Magnesium, Other (1.2%)	0042	1.320	0.0200	1.405	0.1744	0.0641	12	-0.49	OK	0
121.99	Acid Soluble Magnesium, Other (1.2%)	0520	1.350	0.1000	1.405	0.1744	0.0641	12	-0.32	OK	0

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121.99	Acid Soluble Magnesium, Other (1.2%)	0501	1.400	0.0000	1.405	0.1744	0.0641	12	-0.03	OK	0
121.99	Acid Soluble Magnesium, Other (1.2%)	0523	1.400	0.2000	1.405	0.1744	0.0641	12	-0.03	OK	0
121.99	Acid Soluble Magnesium, Other (1.2%)	0524	1.424	0.0131	1.405	0.1744	0.0641	12	0.11	OK	0
121.99	Acid Soluble Magnesium, Other (1.2%)	0481	1.460	0.0000	1.405	0.1744	0.0641	12	0.31	OK	0
121.99	Acid Soluble Magnesium, Other (1.2%)	0552	1.575	0.1700	1.405	0.1744	0.0641	12	0.97	OK	0
121.99	Acid Soluble Magnesium, Other (1.2%)	0368	1.601	0.0153	1.405	0.1744	0.0641	12	1.12	OK	0
121.99	Acid Soluble Magnesium, Other (1.2%)	0515	2.013	0.1583	1.405	0.1744	0.0641	12	3.48	High	0
131.30	Water Soluble Magnesium, ICP (%)	0543	1.374	0.0100				1			0
131.70	Water Soluble Magnesium, Titrimetric (EDTA) (%)	0510	1.702	0.0574				1			0
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon... (%)	0405	0.3145	0.0090				1			0
143.99	Elemental Sulfur, Other (%)	0095	0.4100	0.1000	0.9680	0.3135	0.0244	5	-1.78		0
143.99	Elemental Sulfur, Other (%)	0291	1.065	0.0100	0.9680	0.3135	0.0244	5	0.31		0
143.99	Elemental Sulfur, Other (%)	0472	1.090	0.0000	0.9680	0.3135	0.0244	5	0.39		0
143.99	Elemental Sulfur, Other (%)	0481	1.135	0.0100	0.9680	0.3135	0.0244	5	0.53		0
143.99	Elemental Sulfur, Other (%)	0255	1.140	0.0020	0.9680	0.3135	0.0244	5	0.55		0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0405	1.020	0.0600	1.177	0.0694	0.0442	8	-2.08	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0444	1.125	0.1700	1.177	0.0694	0.0442	8	-0.69	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0027	1.170	0.0600	1.177	0.0694	0.0442	8	-0.10	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0106	1.175	0.0100	1.177	0.0694	0.0442	8	-0.03	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0544	1.175	0.0100	1.177	0.0694	0.0442	8	-0.03	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0522	1.205	0.0100	1.177	0.0694	0.0442	8	0.36	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0550	1.215	0.0300	1.177	0.0694	0.0442	8	0.49	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0397	1.282	0.0037	1.177	0.0694	0.0442	8	1.38	NA	0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0444	1.040	0.0400	1.225	0.2824	0.0300	3	-0.66		0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0095	1.085	0.0100	1.225	0.2824	0.0300	3	-0.50		0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0169	1.550	0.0400	1.225	0.2824	0.0300	3	1.15		0
146.99	Total Sulfur in Liquid, Other (1%)	0131	0.9629	0.0149				1			0
148.00	Total Sulfur, Combustion (1%)	0360	0.9885	0.0430	1.151	0.1514	0.0685	4	-1.07		0
148.00	Total Sulfur, Combustion (1%)	0049	1.099	0.0021	1.151	0.1514	0.0685	4	-0.34		0
148.00	Total Sulfur, Combustion (1%)	0451	1.167	0.1120	1.151	0.1514	0.0685	4	0.11		0
148.00	Total Sulfur, Combustion (1%)	0029	1.350	0.1170	1.151	0.1514	0.0685	4	1.31		0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (1%)	0105	1.155	0.0300	1.266	0.1283	0.0667	10	-0.81	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (1%)	0476	1.175	0.1273	1.266	0.1283	0.0667	10	-0.66	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (1%)	0324	1.195	0.0900	1.266	0.1283	0.0667	10	-0.52	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (1%)	0029	1.205	0.0500	1.266	0.1283	0.0667	10	-0.44	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (1%)	0444	1.205	0.0100	1.266	0.1283	0.0667	10	-0.44	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (1%)	0055	1.210	0.0200	1.266	0.1283	0.0667	10	-0.41	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (1%)	0230	1.265	0.1500	1.266	0.1283	0.0667	10	-0.01	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (1%)	0405	1.335	0.0700	1.266	0.1283	0.0667	10	0.50	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (1%)	0095	1.495	0.0900	1.266	0.1283	0.0667	10	1.66	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (1%)	0498	1.515	0.0300	1.266	0.1283	0.0667	10	1.80	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0394	1.000	0.0000	1.116	0.0897	0.0278	15	-1.29	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0515	1.023	0.0170	1.116	0.0897	0.0278	15	-1.03	OK	0

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148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0527	1.026	0.0010	1.116	0.0897	0.0278	15	-1.01	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0444	1.045	0.0300	1.116	0.0897	0.0278	15	-0.79	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0486	1.060	0.0200	1.116	0.0897	0.0278	15	-0.62	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0177	1.074	0.0197	1.116	0.0897	0.0278	15	-0.46	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0421	1.085	0.0900	1.116	0.0897	0.0278	15	-0.34	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0037	1.133	0.0070	1.116	0.0897	0.0278	15	0.19	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0117	1.137	0.0440	1.116	0.0897	0.0278	15	0.24	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0233	1.140	0.0180	1.116	0.0897	0.0278	15	0.27	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0494	1.159	0.0417	1.116	0.0897	0.0278	15	0.48	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0023	1.165	0.0290	1.116	0.0897	0.0278	15	0.54	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0546	1.195	0.0700	1.116	0.0897	0.0278	15	0.88	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0292	1.245	0.0100	1.116	0.0897	0.0278	15	1.44	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0483	1.260	0.0200	1.116	0.0897	0.0278	15	1.61	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (1%)	0086	1.337	0.3923	1.116	0.0897	0.0278	15	2.47	OK	1
148.99	Total Sulfur, Other (1%)	0368	1.038	0.0082	1.154	0.1092	0.0390	10	-0.99	OK	0
148.99	Total Sulfur, Other (1%)	0520	1.040	0.0120	1.154	0.1092	0.0390	10	-0.97	OK	0
148.99	Total Sulfur, Other (1%)	0433	1.078	0.0000	1.154	0.1092	0.0390	10	-0.65	OK	0
148.99	Total Sulfur, Other (1%)	0096	1.095	0.0500	1.154	0.1092	0.0390	10	-0.50	OK	0
148.99	Total Sulfur, Other (1%)	0231	1.145	0.0100	1.154	0.1092	0.0390	10	-0.08	OK	0
148.99	Total Sulfur, Other (1%)	0040	1.150	0.1000	1.154	0.1092	0.0390	10	-0.03	OK	0
148.99	Total Sulfur, Other (1%)	0354	1.160	0.0600	1.154	0.1092	0.0390	10	0.05	OK	0
148.99	Total Sulfur, Other (1%)	0523	1.250	0.1000	1.154	0.1092	0.0390	10	0.82	OK	0
148.99	Total Sulfur, Other (1%)	0482	1.290	0.0000	1.154	0.1092	0.0390	10	1.16	OK	0
148.99	Total Sulfur, Other (1%)	0220	1.295	0.0500	1.154	0.1092	0.0390	10	1.20	OK	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0043	1.005	0.0500	1.091	0.0585	0.0209	6	-1.31	NA	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0521	1.080	0.0000	1.091	0.0585	0.0209	6	-0.17	NA	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0519	1.090	0.0200	1.091	0.0585	0.0209	6	-0.02	NA	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0501	1.100	0.0000	1.091	0.0585	0.0209	6	0.13	NA	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0524	1.107	0.0052	1.091	0.0585	0.0209	6	0.24	NA	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0423	1.165	0.0500	1.091	0.0585	0.0209	6	1.12	NA	0
151.00	Acid Soluble Arsenic , AA, test portion as in...	0550	3.110	3.340				2			0
151.00	Acid Soluble Arsenic , AA, test portion as in...	0498	4.950	0.1000				2			0
151.30	Acid Soluble Arsenic , ICP (ppm)	0096	7.450	0.3000	8.652	1.649	0.7110	3	-0.73		0
151.30	Acid Soluble Arsenic , ICP (ppm)	0389	7.974	1.388	8.652	1.649	0.7110	3	-0.41		0
151.30	Acid Soluble Arsenic , ICP (ppm)	0255	10.53	0.4450	8.652	1.649	0.7110	3	1.14		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0009	6.750	0.1000	9.063	1.784	0.4886	7	-1.17	NA	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0515	7.579	0.6550	9.063	1.784	0.4886	7	-0.75	NA	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0086	8.784	1.022	9.063	1.784	0.4886	7	-0.14	NA	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0527	9.166	0.0280	9.063	1.784	0.4886	7	0.05	NA	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0117	9.356	0.2550	9.063	1.784	0.4886	7	0.15	NA	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0037	10.49	0.0210	9.063	1.784	0.4886	7	0.73	NA	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0494	11.32	1.340	9.063	1.784	0.4886	7	1.14	NA	0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0230	5.695	0.1100	8.757	2.676	1.689	3	-1.14		0

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			Value	Range	Rob Mean	Rob SD	R-bar				
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0368	9.924	1.362	8.757	2.676	1.689	3	0.44		0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0515	10.65	3.594	8.757	2.676	1.689	3	0.71		0
151.99	Acid Soluble Arsenic , Other (ppm)	0481	8.290	0.2200	9.971	1.892	0.3659	6	-0.79	NA	0
151.99	Acid Soluble Arsenic , Other (ppm)	0220	8.750	0.7000	9.971	1.892	0.3659	6	-0.58	NA	0
151.99	Acid Soluble Arsenic , Other (ppm)	0476	8.979	0.2055	9.971	1.892	0.3659	6	-0.47	NA	0
151.99	Acid Soluble Arsenic , Other (ppm)	0009	10.50	1.000	9.971	1.892	0.3659	6	0.25	NA	0
151.99	Acid Soluble Arsenic , Other (ppm)	0519	10.50	0.0400	9.971	1.892	0.3659	6	0.25	NA	0
151.99	Acid Soluble Arsenic , Other (ppm)	0520	20.66	0.0300	9.971	1.892	0.3659	6	5.03	NA	0
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	0539	0.0400	0.0020	0.0549	0.0175	0.0043	11	-0.85	Low	0
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	0397	0.0412	0.0039	0.0549	0.0175	0.0043	11	-0.79	Low	0
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	0535	0.0415	0.0010	0.0549	0.0175	0.0043	11	-0.77	Low	0
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	0540	0.0440	0.0040	0.0549	0.0175	0.0043	11	-0.62	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	0481	0.0450	0.0100	0.0549	0.0175	0.0043	11	-0.57	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	0029	0.0505	0.0010	0.0549	0.0175	0.0043	11	-0.25	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	0055	0.0515	0.0010	0.0549	0.0175	0.0043	11	-0.19	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	0169	0.0600	0.0020	0.0549	0.0175	0.0043	11	0.29	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	0220	0.0690	0.0020	0.0549	0.0175	0.0043	11	0.81	High	0
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	0309	0.0800	0.0000	0.0549	0.0175	0.0043	11	1.43	High	0
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	0498	0.0900	0.0200	0.0549	0.0175	0.0043	11	2.01	High	0
165.00	Acid Soluble Boron , Spectrophotometric (0.04%)	0550	0.3623	0.5554	0.0549	0.0175	0.0043	11	17.57	High	1
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.04%)	0324	0.0510	0.0040	0.0639	0.0105	0.0017	11	-1.23	Low	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.04%)	0394	0.0532	0.0029	0.0639	0.0105	0.0017	11	-1.02	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.04%)	0040	0.0575	0.0030	0.0639	0.0105	0.0017	11	-0.61	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.04%)	0037	0.0575	0.0010	0.0639	0.0105	0.0017	11	-0.61	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.04%)	0354	0.0600	0.0000	0.0639	0.0105	0.0017	11	-0.37	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.04%)	0444	0.0620	0.0000	0.0639	0.0105	0.0017	11	-0.18	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.04%)	0494	0.0649	0.0016	0.0639	0.0105	0.0017	11	0.09	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.04%)	0023	0.0700	0.0000	0.0639	0.0105	0.0017	11	0.58	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.04%)	0521	0.0720	0.0000	0.0639	0.0105	0.0017	11	0.77	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.04%)	0043	0.0765	0.0050	0.0639	0.0105	0.0017	11	1.20	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.04%)	0433	0.0785	0.0010	0.0639	0.0105	0.0017	11	1.39	High	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.04%)	0106	0.0511	0.0143	0.0639	0.0105	0.0017	11	-1.22	Low	1
165.99	Acid Soluble Boron , Other (0.04%)	0230	0.0326	0.0018	0.0571	0.0114	0.0322	23	-2.15	Low	0
165.99	Acid Soluble Boron , Other (0.04%)	0519	0.0450	0.0100	0.0571	0.0114	0.0322	23	-1.06	Low	0
165.99	Acid Soluble Boron , Other (0.04%)	0524	0.0464	0.0003	0.0571	0.0114	0.0322	23	-0.95	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0515	0.0467	0.0048	0.0571	0.0114	0.0322	23	-0.92	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0042	0.0500	0.0000	0.0571	0.0114	0.0322	23	-0.63	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0486	0.0500	0.0000	0.0571	0.0114	0.0322	23	-0.63	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0476	0.0501	0.0049	0.0571	0.0114	0.0322	23	-0.62	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0086	0.0522	0.0003	0.0571	0.0114	0.0322	23	-0.44	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0421	0.0525	0.0010	0.0571	0.0114	0.0322	23	-0.41	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0009	0.0545	0.0090	0.0571	0.0114	0.0322	23	-0.23	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0255	0.0545	0.0030	0.0571	0.0114	0.0322	23	-0.23	OK	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
165.99	Acid Soluble Boron , Other (0.04%)	0501	0.0550	0.0100	0.0571	0.0114	0.0322	23	-0.19	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0546	0.0550	0.0040	0.0571	0.0114	0.0322	23	-0.19	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0423	0.0565	0.0010	0.0571	0.0114	0.0322	23	-0.06	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0117	0.0599	0.0001	0.0571	0.0114	0.0322	23	0.24	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0360	0.0600	0.0040	0.0571	0.0114	0.0322	23	0.25	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0472	0.0600	0.0000	0.0571	0.0114	0.0322	23	0.25	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0482	0.0600	0.0000	0.0571	0.0114	0.0322	23	0.25	OK	0
165.99	Acid Soluble Boron , Other (0.04%)	0231	0.0700	0.0000	0.0571	0.0114	0.0322	23	1.13	High	0
165.99	Acid Soluble Boron , Other (0.04%)	0368	0.0736	0.0022	0.0571	0.0114	0.0322	23	1.44	High	0
165.99	Acid Soluble Boron , Other (0.04%)	0527	0.0740	0.0040	0.0571	0.0114	0.0322	23	1.48	High	0
165.99	Acid Soluble Boron , Other (0.04%)	0291	0.0800	0.0000	0.0571	0.0114	0.0322	23	2.00	High	0
165.99	Acid Soluble Boron , Other (0.04%)	0552	0.4500	0.6800	0.0571	0.0114	0.0322	23	34.44	High	0
165.99	Acid Soluble Boron , Other (0.04%)	0483	741.0	36.00	0.0571	0.0114	0.0322	23	64963.92	High	2
171.10	Water Soluble Boron , Spectrophotometric (%)	0028	0.0430	0.0060	0.0513	0.0085	0.0040	3	-0.98		0
171.10	Water Soluble Boron , Spectrophotometric (%)	0537	0.0510	0.0060	0.0513	0.0085	0.0040	3	-0.04		0
171.10	Water Soluble Boron , Spectrophotometric (%)	0405	0.0600	0.0000	0.0513	0.0085	0.0040	3	1.02		0
171.99	Water Soluble Boron , Other (%)	0444	0.0500	0.0020	0.0778	0.0278	0.0095	4	-1.00		0
171.99	Water Soluble Boron , Other (%)	0027	0.0585	0.0030	0.0778	0.0278	0.0095	4	-0.69		0
171.99	Water Soluble Boron , Other (%)	0402	0.0950	0.0100	0.0778	0.0278	0.0095	4	0.62		0
171.99	Water Soluble Boron , Other (%)	0543	0.1075	0.0230	0.0778	0.0278	0.0095	4	1.07		0
181.00	Acid Soluble Cadmium , AA, test portion as in...	0550	4.740	0.0000				2			0
181.00	Acid Soluble Cadmium , AA, test portion as in...	0498	5.580	0.4800				2			0
181.30	Acid Soluble Cadmium , ICP (ppm)	0096	1.850	0.1000	2.611	0.6595	0.0931	8	-1.06	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0444	2.150	0.0200	2.611	0.6595	0.0931	8	-0.64	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0523	2.185	0.0300	2.611	0.6595	0.0931	8	-0.59	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0524	2.349	0.0017	2.611	0.6595	0.0931	8	-0.36	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0255	2.717	0.0330	2.611	0.6595	0.0931	8	0.15	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0035	2.830	0.3200	2.611	0.6595	0.0931	8	0.30	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0482	3.350	0.1000	2.611	0.6595	0.0931	8	1.02	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0394	3.460	0.1400	2.611	0.6595	0.0931	8	1.18	NA	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0009	2.800	0.0000	3.157	0.2485	0.0825	5	-1.25		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0086	3.039	0.0737	3.157	0.2485	0.0825	5	-0.41		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0494	3.193	0.2909	3.157	0.2485	0.0825	5	0.13		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0037	3.314	0.0110	3.157	0.2485	0.0825	5	0.55		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0527	3.440	0.0370	3.157	0.2485	0.0825	5	0.99		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0515	5.098	3.711	3.157	0.2485	0.0825	5	6.82		1
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0230	1.895	0.0300	2.814	1.187	0.8957	3	-0.77		0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0368	2.392	0.0720	2.814	1.187	0.8957	3	-0.36		0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0515	4.154	2.585	2.814	1.187	0.8957	3	1.13		0
181.99	Acid Soluble Cadmium , Other (ppm)	0481	2.335	0.0900	3.298	0.8013	0.0733	6	-1.07	NA	0
181.99	Acid Soluble Cadmium , Other (ppm)	0519	3.060	0.0200	3.298	0.8013	0.0733	6	-0.26	NA	0
181.99	Acid Soluble Cadmium , Other (ppm)	0476	3.094	0.1097	3.298	0.8013	0.0733	6	-0.23	NA	0
181.99	Acid Soluble Cadmium , Other (ppm)	0220	3.350	0.1000	3.298	0.8013	0.0733	6	0.06	NA	0

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181.99	Acid Soluble Cadmium , Other (ppm)	0009	3.450	0.1000	3.298	0.8013	0.0733	6	0.17	NA	0
181.99	Acid Soluble Cadmium , Other (ppm)	0520	5.180	0.0200	3.298	0.8013	0.0733	6	2.09	NA	0
191.00	Acid Soluble Chromium , AA, test portion as i...	0498	46.77	1.610				2			0
191.00	Acid Soluble Chromium , AA, test portion as i...	0550	108.1	5.860				2			0
191.30	Acid Soluble Chromium , ICP (ppm)	0523	44.30	0.1300	56.46	10.10	1.533	6	-1.07	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0482	52.75	1.500	56.46	10.10	1.533	6	-0.33	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0444	54.15	4.270	56.46	10.10	1.533	6	-0.20	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0035	55.65	1.300	56.46	10.10	1.533	6	-0.07	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0394	61.00	0.6000	56.46	10.10	1.533	6	0.40	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0096	70.90	1.400	56.46	10.10	1.533	6	1.27	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0086	64.76	0.3610	68.78	4.534	2.509	8	-0.81	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0494	65.36	2.368	68.78	4.534	2.509	8	-0.69	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0009	65.50	7.000	68.78	4.534	2.509	8	-0.66	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0527	67.71	0.1790	68.78	4.534	2.509	8	-0.22	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0515	67.94	2.133	68.78	4.534	2.509	8	-0.17	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0037	69.69	0.2640	68.78	4.534	2.509	8	0.18	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0117	73.71	2.160	68.78	4.534	2.509	8	0.99	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0105	78.41	5.610	68.78	4.534	2.509	8	1.94	NA	0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0230	42.75	0.1000	59.69	15.82	4.467	3	-1.07		0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0368	62.25	0.7170	59.69	15.82	4.467	3	0.16		0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0515	74.07	12.59	59.69	15.82	4.467	3	0.91		0
191.99	Acid Soluble Chromium , Other (ppm)	0519	59.47	0.1000	68.99	7.980	2.854	6	-1.06	NA	0
191.99	Acid Soluble Chromium , Other (ppm)	0481	62.09	1.970	68.99	7.980	2.854	6	-0.77	NA	0
191.99	Acid Soluble Chromium , Other (ppm)	0476	68.38	6.022	68.99	7.980	2.854	6	-0.07	NA	0
191.99	Acid Soluble Chromium , Other (ppm)	0009	73.00	8.000	68.99	7.980	2.854	6	0.45	NA	0
191.99	Acid Soluble Chromium , Other (ppm)	0220	73.50	1.000	68.99	7.980	2.854	6	0.50	NA	0
191.99	Acid Soluble Chromium , Other (ppm)	0520	77.51	0.0300	68.99	7.980	2.854	6	0.95	NA	0
202.00	Acid Soluble Cobalt , AA, test portion as in ... (ppm)	0498	13.00	2.000				1			0
202.30	Acid Soluble Cobalt , ICP (ppm)	0096	1.540	0.5600	2.638	0.6868	0.3815	5	-1.60		0
202.30	Acid Soluble Cobalt , ICP (ppm)	0524	2.644	0.0375	2.638	0.6868	0.3815	5	0.01		0
202.30	Acid Soluble Cobalt , ICP (ppm)	0035	2.750	0.4800	2.638	0.6868	0.3815	5	0.16		0
202.30	Acid Soluble Cobalt , ICP (ppm)	0523	2.820	0.1000	2.638	0.6868	0.3815	5	0.27		0
202.30	Acid Soluble Cobalt , ICP (ppm)	0482	3.435	0.7300	2.638	0.6868	0.3815	5	1.16		0
202.32	Acid Soluble Cobalt , ICP, 2006.03 (ppm)	0423	4.140	0.0400				1			0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w...	0546	0.6100	0.0200	4.403	0.8710	0.2830	7	-3.94	Low	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w...	0527	3.544	0.2160	4.403	0.8710	0.2830	7	-0.89	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w...	0086	4.609	0.2130	4.403	0.8710	0.2830	7	0.21	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w...	0494	4.635	0.8948	4.403	0.8710	0.2830	7	0.24	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w...	0037	4.930	0.3110	4.403	0.8710	0.2830	7	0.55	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w...	0009	5.000	0.2000	4.403	0.8710	0.2830	7	0.62	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w...	0117	5.007	0.1260	4.403	0.8710	0.2830	7	0.63	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w...	0515	6.097	4.180	4.403	0.8710	0.2830	7	1.76	OK	1
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0230	1.855	0.0500	3.163	1.203	0.9567	3	-1.09		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	3.413	0.3840	3.163	1.203	0.9567	3	0.21		0
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0515	4.221	2.436	3.163	1.203	0.9567	3	0.88		0
202.99	Acid Soluble Cobalt , Other (ppm)	0519	2.210	0.0400	3.839	1.309	0.0941	6	-1.11	OK	0
202.99	Acid Soluble Cobalt , Other (ppm)	0520	3.045	0.0100	3.839	1.309	0.0941	6	-0.54	OK	0
202.99	Acid Soluble Cobalt , Other (ppm)	0220	3.600	0.0000	3.839	1.309	0.0941	6	-0.16	OK	0
202.99	Acid Soluble Cobalt , Other (ppm)	0255	4.155	0.1280	3.839	1.309	0.0941	6	0.22	OK	0
202.99	Acid Soluble Cobalt , Other (ppm)	0476	4.523	0.1863	3.839	1.309	0.0941	6	0.47	OK	0
202.99	Acid Soluble Cobalt , Other (ppm)	0009	5.500	0.2000	3.839	1.309	0.0941	6	1.13	OK	0
202.99	Acid Soluble Cobalt , Other (ppm)	0027	29.50	1.000	3.839	1.309	0.0941	6	17.45	High	1
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0230	0.0002	0.0000	0.0030	0.0040	0.0008	5	-0.62		0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0035	0.0010	0.0001	0.0030	0.0040	0.0008	5	-0.46		0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0402	0.0015	0.0010	0.0030	0.0040	0.0008	5	-0.34		0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0255	0.0025	0.0030	0.0030	0.0040	0.0008	5	-0.12		0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0354	0.0100	0.0000	0.0030	0.0040	0.0008	5	1.53		0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0552	0.0350	0.0300	0.0030	0.0040	0.0008	5	7.00		1
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0423	0.0002	0.0000	0.0003	0.0002	0.0000	3	-0.58		0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0521	0.0002	0.0000	0.0003	0.0002	0.0000	3	-0.58		0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0394	0.0005	0.0000	0.0003	0.0002	0.0000	3	1.15		0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0086	0.0003	0.0000	0.0006	0.0004	0.0002	7	-0.71	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0494	0.0003	0.0000	0.0006	0.0004	0.0002	7	-0.71	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0546	0.0003	0.0000	0.0006	0.0004	0.0002	7	-0.71	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0009	0.0005	0.0003	0.0006	0.0004	0.0002	7	-0.38	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0105	0.0009	0.0006	0.0006	0.0004	0.0002	7	0.61	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0527	0.0010	0.0000	0.0006	0.0004	0.0002	7	0.83	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0515	0.0011	0.0004	0.0006	0.0004	0.0002	7	1.05	OK	0
221.99	Acid Soluble Copper , Other (%)	0524	0.0002	0.0000	0.6071	1.356	0.0573	5	-0.45		0
221.99	Acid Soluble Copper , Other (%)	0009	0.0003	0.0000	0.6071	1.356	0.0573	5	-0.45		0
221.99	Acid Soluble Copper , Other (%)	0368	0.0005	0.0001	0.6071	1.356	0.0573	5	-0.45		0
221.99	Acid Soluble Copper , Other (%)	0515	0.0017	0.0005	0.6071	1.356	0.0573	5	-0.45		0
221.99	Acid Soluble Copper , Other (%)	0476	3.033	0.2861	0.6071	1.356	0.0573	5	1.79		0
241.03	Acid Soluble Iron, AA, 965.09, test portion 2... (%)	0105	0.6212	0.0825				1			0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0035	0.6185	0.0130	0.6475	0.0295	0.0129	8	-0.90	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0096	0.6250	0.0300	0.6475	0.0295	0.0129	8	-0.70	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0231	0.6300	0.0000	0.6475	0.0295	0.0129	8	-0.54	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0472	0.6400	0.0000	0.6475	0.0295	0.0129	8	-0.23	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0402	0.6450	0.0100	0.6475	0.0295	0.0129	8	-0.08	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0354	0.6500	0.0000	0.6475	0.0295	0.0129	8	0.08	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0552	0.6800	0.0400	0.6475	0.0295	0.0129	8	1.01	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0482	0.6950	0.0100	0.6475	0.0295	0.0129	8	1.47	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0483	6,940	120.0	0.6475	0.0295	0.0129	8	215048.20	High	2
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0521	0.6180	0.0000				2			0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0423	0.6405	0.0010				2			0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0546	0.5500	0.0200	0.6114	0.0314	0.0174	12	-1.95	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				
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0106	0.5686	0.0156	0.6114	0.0314	0.0174	12	-1.36	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0515	0.5857	0.0259	0.6114	0.0314	0.0174	12	-0.82	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0034	0.6085	0.0010	0.6114	0.0314	0.0174	12	-0.09	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0009	0.6100	0.0600	0.6114	0.0314	0.0174	12	-0.04	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0421	0.6150	0.0100	0.6114	0.0314	0.0174	12	0.12	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0086	0.6155	0.0019	0.6114	0.0314	0.0174	12	0.13	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0025	0.6203	0.0311	0.6114	0.0314	0.0174	12	0.28	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0494	0.6221	0.0176	0.6114	0.0314	0.0174	12	0.34	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0117	0.6226	0.0130	0.6114	0.0314	0.0174	12	0.36	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0023	0.6455	0.0010	0.6114	0.0314	0.0174	12	1.09	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0527	0.6720	0.0120	0.6114	0.0314	0.0174	12	1.93	OK	0
241.99	Acid Soluble Iron, Other (%)	0515	0.5283	0.0774				2			0
241.99	Acid Soluble Iron, Other (%)	0524	0.6456	0.0028				2			0
251.00	Acid Soluble Lead , AA, test portion as in 20... (ppm)	0498	1.380	0.2200				2			0
251.00	Acid Soluble Lead , AA, test portion as in 20... (ppm)	0550	29.68	1.170				2			0
251.30	Acid Soluble Lead , ICP (ppm)	0444	2.140	0.1600	3.671	1.328	0.2251	7	-1.04	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0523	2.865	0.0900	3.671	1.328	0.2251	7	-0.55	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0096	3.400	0.4000	3.671	1.328	0.2251	7	-0.18	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0255	3.442	0.0370	3.671	1.328	0.2251	7	-0.16	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0524	3.470	0.0088	3.671	1.328	0.2251	7	-0.14	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0482	4.720	0.6400	3.671	1.328	0.2251	7	0.71	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0394	5.890	0.2400	3.671	1.328	0.2251	7	1.51	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0035	8.765	2.870	3.671	1.328	0.2251	7	3.47	NA	1
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0009	3.200	0.8000	4.269	1.116	0.6960	6	-0.85	NA	0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0037	3.673	0.1940	4.269	1.116	0.6960	6	-0.48	NA	0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0086	3.701	0.4309	4.269	1.116	0.6960	6	-0.45	NA	0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0494	4.374	0.0703	4.269	1.116	0.6960	6	0.08	NA	0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0527	4.725	0.0250	4.269	1.116	0.6960	6	0.36	NA	0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0515	6.284	2.656	4.269	1.116	0.6960	6	1.61	NA	0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0230	3.000	0.3200				2			0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0515	3.525	2.649				2			0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0368	0.0000	0.0000				2			4
251.99	Acid Soluble Lead , Other (ppm)	0009	3.250	0.1000	4.946	2.311	0.1458	6	-0.65	NA	0
251.99	Acid Soluble Lead , Other (ppm)	0481	3.470	0.0800	4.946	2.311	0.1458	6	-0.57	NA	0
251.99	Acid Soluble Lead , Other (ppm)	0519	3.895	0.1100	4.946	2.311	0.1458	6	-0.40	NA	0
251.99	Acid Soluble Lead , Other (ppm)	0220	4.250	0.3000	4.946	2.311	0.1458	6	-0.27	NA	0
251.99	Acid Soluble Lead , Other (ppm)	0476	6.397	0.1550	4.946	2.311	0.1458	6	0.56	NA	0
251.99	Acid Soluble Lead , Other (ppm)	0520	11.04	0.1300	4.946	2.311	0.1458	6	2.35	NA	0
261.15	Acid Soluble Manganese , AA, 965.09, test por... (%)	0105	0.0177	0.0046				1			0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0354	0.0100	0.0000	0.0168	0.0046	0.0003	4	-1.48		0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0035	0.0182	0.0005	0.0168	0.0046	0.0003	4	0.29		0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0096	0.0191	0.0007	0.0168	0.0046	0.0003	4	0.49		0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0472	0.0200	0.0000	0.0168	0.0046	0.0003	4	0.70		0

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			Value	Range	Rob Mean	Rob SD	R-bar				
261.31	Acid Soluble Manganese , ICP, test portion 97... (%)	0482	0.0200	0.0000				1			0
261.32	Acid Soluble Manganese , ICP, test portion in... (%)	0049	0.0164	0.0013	13.75	30.66	1.410	5	-0.45		0
261.32	Acid Soluble Manganese , ICP, test portion in... (%)	0231	0.0200	0.0000	13.75	30.66	1.410	5	-0.45		0
261.32	Acid Soluble Manganese , ICP, test portion in... (%)	0402	0.0200	0.0000	13.75	30.66	1.410	5	-0.45		0
261.32	Acid Soluble Manganese , ICP, test portion in... (%)	0552	0.1150	0.0500	13.75	30.66	1.410	5	-0.44		0
261.32	Acid Soluble Manganese , ICP, test portion in... (%)	0483	68.60	7.000	13.75	30.66	1.410	5	1.79		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (%)	0521	0.0182	0.0000				2			0
261.34	Acid Soluble Manganese , ICP, test portion 20... (%)	0423	0.0205	0.0010				2			0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0106	0.0159	0.0002	0.0183	0.0011	0.0006	9	-2.07	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0546	0.0172	0.0006	0.0183	0.0011	0.0006	9	-0.96	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0009	0.0180	0.0020	0.0183	0.0011	0.0006	9	-0.27	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0494	0.0183	0.0007	0.0183	0.0011	0.0006	9	-0.06	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0086	0.0184	0.0003	0.0183	0.0011	0.0006	9	0.03	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0023	0.0185	0.0010	0.0183	0.0011	0.0006	9	0.16	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0117	0.0189	0.0006	0.0183	0.0011	0.0006	9	0.50	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0527	0.0190	0.0000	0.0183	0.0011	0.0006	9	0.59	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0421	0.0200	0.0000	0.0183	0.0011	0.0006	9	1.45	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0515	0.0130	0.0260	0.0183	0.0011	0.0006	9			4
261.99	Acid Soluble Manganese , Other (%)	0515	0.0165	0.0010				2			0
261.99	Acid Soluble Manganese , Other (%)	0524	0.0174	0.0004				2			0
281.30	Acid Soluble Mercury , ICP (ppm)	0515	0.0000	0.0000				0			4
281.99	Acid Soluble Mercury , Other (ppm)	0519	0.0150	0.0100				1			0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0521	4.968	0.0000	8.213	4.730	0.3556	6	-0.61	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0433	5.504	0.0029	8.213	4.730	0.3556	6	-0.51	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0096	5.900	0.4000	8.213	4.730	0.3556	6	-0.44	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0524	6.278	0.0165	8.213	4.730	0.3556	6	-0.36	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0255	11.32	1.604	8.213	4.730	0.3556	6	0.59	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0519	33.95	0.1100	8.213	4.730	0.3556	6	4.85	High	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0035	7.660	6.880	8.213	4.730	0.3556	6	-0.10	OK	1
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (ppm)	0394	6.677	0.0000				1			0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0009	6.850	1.700	7.873	0.7593	0.7962	11	-1.26	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0086	6.996	0.3637	7.873	0.7593	0.7962	11	-1.08	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0546	7.295	0.1300	7.873	0.7593	0.7962	11	-0.71	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0423	7.680	0.1000	7.873	0.7593	0.7962	11	-0.24	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0494	7.695	1.149	7.873	0.7593	0.7962	11	-0.22	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0037	7.925	0.0710	7.873	0.7593	0.7962	11	0.06	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0117	7.960	0.1140	7.873	0.7593	0.7962	11	0.11	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0515	8.102	2.756	7.873	0.7593	0.7962	11	0.28	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0106	8.500	1.000	7.873	0.7593	0.7962	11	0.77	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0527	8.588	0.0360	7.873	0.7593	0.7962	11	0.88	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0105	9.451	1.338	7.873	0.7593	0.7962	11	1.94	OK	0
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (ppm)	0230	4.690	0.0600	8.009	4.068	1.001	3	-0.82		0
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (ppm)	0515	6.789	2.585	8.009	4.068	1.001	3	-0.30		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				
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (ppm)	0368	12.55	0.3580	8.009	4.068	1.001	3	1.12		0
289.99	Acid Soluble Molybdenum , Other (ppm)	0476	2.676	0.0195	8.101	3.455	0.7279	5	-1.57		0
289.99	Acid Soluble Molybdenum , Other (ppm)	0220	7.900	0.2000	8.101	3.455	0.7279	5	-0.06		0
289.99	Acid Soluble Molybdenum , Other (ppm)	0520	8.400	0.0400	8.101	3.455	0.7279	5	0.09		0
289.99	Acid Soluble Molybdenum , Other (ppm)	0009	9.350	0.9000	8.101	3.455	0.7279	5	0.36		0
289.99	Acid Soluble Molybdenum , Other (ppm)	0550	12.18	2.480	8.101	3.455	0.7279	5	1.18		0
291.00	Acid Soluble Nickel , AA, test portion as in ... (ppm)	0550	43.48	3.030				1			0
291.30	Acid Soluble Nickel , ICP (ppm)	0444	9.845	0.9700	11.96	2.125	0.5548	6	-0.89	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0524	10.67	0.0585	11.96	2.125	0.5548	6	-0.54	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0096	11.25	1.100	11.96	2.125	0.5548	6	-0.30	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0482	11.60	1.000	11.96	2.125	0.5548	6	-0.15	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0521	13.61	0.0000	11.96	2.125	0.5548	6	0.69	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0394	14.80	0.2000	11.96	2.125	0.5548	6	1.19	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0035	17.70	8.600	11.96	2.125	0.5548	6	2.41	NA	1
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0527	14.97	0.1500	16.82	1.256	1.293	8	-1.35	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0086	16.26	0.8490	16.82	1.256	1.293	8	-0.40	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0494	16.28	0.6979	16.82	1.256	1.293	8	-0.39	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0037	16.53	0.2410	16.82	1.256	1.293	8	-0.21	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0009	17.00	2.000	16.82	1.256	1.293	8	0.13	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0515	17.09	3.199	16.82	1.256	1.293	8	0.20	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0117	17.72	0.1600	16.82	1.256	1.293	8	0.66	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0105	24.69	3.050	16.82	1.256	1.293	8	5.73	NA	0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0230	9.175	0.2700	12.92	3.312	1.390	3	-1.13		0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0515	14.10	3.275	12.92	3.312	1.390	3	0.36		0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0368	15.48	0.6260	12.92	3.312	1.390	3	0.77		0
291.99	Acid Soluble Nickel , Other (ppm)	0519	14.46	0.0800	16.76	2.537	0.1508	6	-0.81	NA	0
291.99	Acid Soluble Nickel , Other (ppm)	0255	15.39	0.1110	16.76	2.537	0.1508	6	-0.48	NA	0
291.99	Acid Soluble Nickel , Other (ppm)	0220	15.40	0.2000	16.76	2.537	0.1508	6	-0.48	NA	0
291.99	Acid Soluble Nickel , Other (ppm)	0476	16.74	0.4340	16.76	2.537	0.1508	6	-0.01	NA	0
291.99	Acid Soluble Nickel , Other (ppm)	0009	18.00	0.0000	16.76	2.537	0.1508	6	0.44	NA	0
291.99	Acid Soluble Nickel , Other (ppm)	0520	21.97	0.0800	16.76	2.537	0.1508	6	1.83	NA	0
291.99	Acid Soluble Nickel , Other (ppm)	0481	11.96	1.340	16.76	2.537	0.1508	6	-1.68	NA	1
301.30	Acid Soluble Selenium , ICP (ppm)	0389	0.3221	0.0085				2			0
301.30	Acid Soluble Selenium , ICP (ppm)	0524	0.5250	0.1300				2			0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0009	5.050	1.700				2			0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0527	5.950	0.0400				2			0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0515	0.7575	1.515				2			4
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0515	2.061	1.337				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	1.100	0.0000	10.26	12.02	0.5396	5	-0.76		0
301.99	Acid Soluble Selenium , Other (ppm)	0519	1.515	0.0300	10.26	12.02	0.5396	5	-0.73		0
301.99	Acid Soluble Selenium , Other (ppm)	0476	8.947	0.6341	10.26	12.02	0.5396	5	-0.11		0
301.99	Acid Soluble Selenium , Other (ppm)	0009	9.150	0.5000	10.26	12.02	0.5396	5	-0.09		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				
301.99	Acid Soluble Selenium , Other (ppm)	0255	30.61	1.534	10.26	12.02	0.5396	5	1.69		0
311.32	Sodium, ICP, 2006.03 test portion (%)	0521	0.3826	0.0000				1			0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0009	0.3550	0.0300	0.4114	0.0592	0.0183	7	-0.86	Low	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0035	0.3695	0.0410	0.4114	0.0592	0.0183	7	-0.64	OK	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0086	0.3849	0.0028	0.4114	0.0592	0.0183	7	-0.41	OK	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0034	0.3935	0.0110	0.4114	0.0592	0.0183	7	-0.27	OK	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0423	0.4135	0.0050	0.4114	0.0592	0.0183	7	0.03	OK	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0117	0.4666	0.0322	0.4114	0.0592	0.0183	7	0.84	High	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0527	0.4970	0.0060	0.4114	0.0592	0.0183	7	1.31	High	0
311.99	Sodium, Other (%)	0096	0.3950	0.0300	0.4000	0.0087	0.0200	3	-0.58		0
311.99	Sodium, Other (%)	0482	0.3950	0.0100	0.4000	0.0087	0.0200	3	-0.58		0
311.99	Sodium, Other (%)	0354	0.4100	0.0200	0.4000	0.0087	0.0200	3	1.15		0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.02%)	0535	0.0205	0.0010	0.0257	0.0052	0.0023	8	-0.92	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.02%)	0539	0.0205	0.0010	0.0257	0.0052	0.0023	8	-0.92	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.02%)	0540	0.0235	0.0050	0.0257	0.0052	0.0023	8	-0.39	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.02%)	0169	0.0240	0.0060	0.0257	0.0052	0.0023	8	-0.30	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.02%)	0029	0.0258	0.0009	0.0257	0.0052	0.0023	8	0.01	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.02%)	0550	0.0280	0.0020	0.0257	0.0052	0.0023	8	0.40	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.02%)	0498	0.0300	0.0000	0.0257	0.0052	0.0023	8	0.76	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.02%)	0516	0.0488	0.0027	0.0257	0.0052	0.0023	8	4.06	High	0
321.03	Acid Soluble Zinc , AA, 965.09, test portion ... (0.02%)	0105	0.0289	0.0018				1			0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0230	0.0155	0.0008	0.0278	0.0046	0.0025	18	-2.70	Low	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0472	0.0200	0.0000	0.0278	0.0046	0.0025	18	-1.71	Low	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0360	0.0215	0.0010	0.0278	0.0046	0.0025	18	-1.38	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0433	0.0245	0.0010	0.0278	0.0046	0.0025	18	-0.72	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0324	0.0250	0.0020	0.0278	0.0046	0.0025	18	-0.61	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0354	0.0250	0.0100	0.0278	0.0046	0.0025	18	-0.61	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0444	0.0270	0.0000	0.0278	0.0046	0.0025	18	-0.17	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0096	0.0278	0.0007	0.0278	0.0046	0.0025	18	-0.01	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0035	0.0291	0.0005	0.0278	0.0046	0.0025	18	0.28	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0233	0.0299	0.0005	0.0278	0.0046	0.0025	18	0.45	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0231	0.0300	0.0000	0.0278	0.0046	0.0025	18	0.49	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0291	0.0300	0.0000	0.0278	0.0046	0.0025	18	0.49	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0292	0.0300	0.0000	0.0278	0.0046	0.0025	18	0.49	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0402	0.0300	0.0000	0.0278	0.0046	0.0025	18	0.49	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0482	0.0300	0.0000	0.0278	0.0046	0.0025	18	0.49	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0255	0.0310	0.0020	0.0278	0.0046	0.0025	18	0.71	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0041	0.0330	0.0060	0.0278	0.0046	0.0025	18	1.14	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0552	0.0900	0.0200	0.0278	0.0046	0.0025	18	13.66	High	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.02%)	0483	303.0	12.00	0.0278	0.0046	0.0025	18	66499.68	High	2
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0043	0.0185	0.0010	0.0276	0.0092	0.0008	4	-0.98		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0394	0.0255	0.0010	0.0276	0.0092	0.0008	4	-0.23		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0521	0.0259	0.0000	0.0276	0.0092	0.0008	4	-0.18		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				
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0423	0.0405	0.0010	0.0276	0.0092	0.0008	4	1.40		0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0106	0.0208	0.0024	0.0265	0.0018	0.0025	16	-3.10	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0220	0.0245	0.0010	0.0265	0.0018	0.0025	16	-1.09	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0421	0.0250	0.0100	0.0265	0.0018	0.0025	16	-0.82	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0486	0.0250	0.0000	0.0265	0.0018	0.0025	16	-0.82	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0397	0.0251	0.0009	0.0265	0.0018	0.0025	16	-0.79	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0117	0.0259	0.0019	0.0265	0.0018	0.0025	16	-0.36	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0515	0.0259	0.0001	0.0265	0.0018	0.0025	16	-0.36	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0055	0.0265	0.0010	0.0265	0.0018	0.0025	16	-0.01	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0546	0.0265	0.0010	0.0265	0.0018	0.0025	16	-0.01	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0023	0.0270	0.0020	0.0265	0.0018	0.0025	16	0.27	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0037	0.0270	0.0020	0.0265	0.0018	0.0025	16	0.27	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0009	0.0280	0.0080	0.0265	0.0018	0.0025	16	0.81	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0025	0.0280	0.0010	0.0265	0.0018	0.0025	16	0.81	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0494	0.0284	0.0032	0.0265	0.0018	0.0025	16	1.03	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0527	0.0285	0.0010	0.0265	0.0018	0.0025	16	1.08	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0105	0.0320	0.0038	0.0265	0.0018	0.0025	16	2.98	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.02%)	0086	0.1592	0.2677	0.0265	0.0018	0.0025	16	72.01	High	2
321.99	Acid Soluble Zinc , Other (0.02%)	0027	0.0175	0.0010	0.0248	0.0047	0.0012	10	-1.43	OK	0
321.99	Acid Soluble Zinc , Other (0.02%)	0519	0.0200	0.0000	0.0248	0.0047	0.0012	10	-0.94	OK	0
321.99	Acid Soluble Zinc , Other (0.02%)	0537	0.0225	0.0010	0.0248	0.0047	0.0012	10	-0.44	OK	0
321.99	Acid Soluble Zinc , Other (0.02%)	0476	0.0227	0.0008	0.0248	0.0047	0.0012	10	-0.40	OK	0
321.99	Acid Soluble Zinc , Other (0.02%)	0515	0.0252	0.0029	0.0248	0.0047	0.0012	10	0.08	OK	0
321.99	Acid Soluble Zinc , Other (0.02%)	0042	0.0255	0.0030	0.0248	0.0047	0.0012	10	0.15	OK	0
321.99	Acid Soluble Zinc , Other (0.02%)	0523	0.0265	0.0030	0.0248	0.0047	0.0012	10	0.35	OK	0
321.99	Acid Soluble Zinc , Other (0.02%)	0368	0.0270	0.0005	0.0248	0.0047	0.0012	10	0.43	OK	0
321.99	Acid Soluble Zinc , Other (0.02%)	0524	0.0287	0.0002	0.0248	0.0047	0.0012	10	0.78	OK	0
321.99	Acid Soluble Zinc , Other (0.02%)	0481	0.0320	0.0000	0.0248	0.0047	0.0012	10	1.43	OK	0
321.99	Acid Soluble Zinc , Other (0.02%)	0520	348.7	0.7300	0.0248	0.0047	0.0012	10	68886.17	High	2
325.30	Water Soluble Zinc , ICP (%)	0543	0.0295	0.0530				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 ± 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.