

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Methods: 129

Sample # 170111

Statistical Summary

Labs Reporting: 84

Grade 18-46-0 DAP

Issue Date : 02/28/2017

Method Code	Analyte & Method	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	IA %RSD	Average Range (R-bar)	Horwitz %RSD
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	8	8	18.09	0.2061	18.13		0.1322	0.0584	0.73%		0.0789	2.59%
001.99	Ammoniacal Nitrogen, Other (%)	18	16	18.27	0.2255	18.28		0.2364	0.0739	1.29%		0.1209	2.58%
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	1		18.33									
009.99	Ammoniacal Plus Nitrate Nitrogen, Other (%)	1		18.02									
010.11	Total Nitrogen, Modified Comprehensive (18%)	6	6	16.65	3.615	17.97	0.7043	0.4890	0.2496	2.72%	1.96%	0.0950	2.59%
010.12	Total Nitrogen, Salicylic (18%)	1		18.45									
010.17	Total Nitrogen, Comprehensive (18%)	2	2	18.30	0.0345								
010.60	Total Nitrogen, Combustion (18%)	56	54	18.27	0.4555	18.29	0.7043	0.2722	0.0463	1.49%	1.92%	0.1205	2.58%
010.99	Total Nitrogen, Other (18%)	5	5	18.34	0.2803	18.34	0.7043	0.2803	0.1567	1.53%	1.92%	0.1535	2.58%
020.10	Total Phosphorus as P2O5, Gravimetric Quinolinium ... (%)	7	7	46.66	0.3333	46.66		0.3779	0.1786	0.81%		0.2214	2.24%
020.20	Total Phosphorus as P2O5, Spectrophotometric Molyb... (%)	19	18	46.31	1.207	46.45		0.5770	0.1700	1.24%		0.1602	2.24%
020.40	Total Phosphorus as P2O5, Automated (%)	7	7	46.29	0.5600	46.29		0.6351	0.3000	1.37%		0.2914	2.25%
020.50	Total Phosphorus as P2O5, ICP (%)	19	19	46.67	2.407	46.59		2.078	0.5959	4.46%		0.7714	2.24%
020.99	Total Phosphorus as P2O5, Other (%)	7	6	46.10	0.4498	46.10		0.5101	0.2603	1.11%		0.0463	2.25%
030.20	Citrate Insoluble Phosphorus as P2O5, Spectrophoto... (%)	1		0.0485									
030.40	Citrate Insoluble Phosphorus as P2O5, Automated, t... (%)	2	2	0.0775	0.0177								
040.20	Indirect Available Phosphorus as P2O5, Spectrophot... (46%)	1		46.23									
040.40	Indirect Available Phosphorus as P2O5, Automated (46%)	2	2	46.44	0.0990								
040.99	Indirect Available Phosphorus as P2O5, Other (46%)	1		41.91									
041.10	Direct Available Phosphorus as P2O5, Gravimetric Q... (46%)	4	4	46.57	0.5176	46.57	1.0077	0.5176	0.3235	1.11%	1.08%	0.4800	2.24%
041.11	Direct Available Phosphorus as P2O5, Gravimetric Q... (46%)	5	5	46.98	0.6484	46.98	1.0077	0.6484	0.3625	1.38%	1.07%	0.1320	2.24%
041.20	Direct Available Phosphorus as P2O5, Spectrophotom... (46%)	1		45.40									
041.21	Direct Available Phosphorus as P2O5, Spectrophotom... (46%)	1		46.11									
041.31	Direct Available Phosphorus as P2O5, Alkalimetric ... (46%)	1		46.91									
041.40	Direct Available Phosphorus as P2O5, Automated (46%)	1		47.22									
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	4	4	46.73	0.9845	46.73	1.0077	0.9845	0.6153	2.11%	1.08%	0.7363	2.24%
041.51	Direct Available Phosphorus as P2O5, ICP, Citrate-... (46%)	7	7	46.03	0.6573	46.11	1.0077	0.5497	0.2597	1.19%	1.09%	0.2257	2.25%
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA ... (46%)	13	13	46.64	0.6491	46.61	1.0077	0.6843	0.2373	1.47%	1.08%	0.4191	2.24%
041.99	Direct Available Phosphorus as P2O5, Other (46%)	2	2	46.03	0.1732								
042.99	Water Soluble Orthophosphate as P2O5, Other (%)	1		41.94									
048.10	Water Soluble Phosphorus as P2O5, Gravimetric Quin... (%)	1		44.19									

Method Code	Analyte & Method	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	IA %RSD	Average Range (R-bar)	Horwitz %RSD
048.20	Water Soluble Phosphorus as P2O5, Spectrophotometr... (%)	7	7	43.29	2.692	43.70		2.021	0.9547	4.62%		0.1421	2.27%
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	1		44.25									
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	2	2	44.88	0.5194								
048.99	Water Soluble Phosphorus as P2O5, Other (%)	5	5	42.84	1.088	42.84		1.088	0.6083	2.54%		0.2192	2.27%
050.00	Soluble Potassium as K2O, STPB Oxalate (%)	1		47.78									
050.50	Soluble Potassium as K2O, ICP (Oxalate) (%)	1		0.0900									
050.51	Soluble Potassium as K2O, ICP (Citrate) (%)	1		0.3350									
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	3	3	0.3080	0.1455	0.3080		0.1455	0.1050	47.23%		0.0593	4.78%
050.99	Soluble Potassium as K2O, Other (%)	6	6	0.1891	0.0196	0.1891		0.0222	0.0113	11.75%		0.0056	5.14%
060.00	Water (Free), Vacuum Oven (%)	4	4	0.7936	0.1758	0.7936		0.1758	0.1099	22.15%		0.0252	4.14%
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 hours,... (%)	1		1.880									
060.99	Water (Free), Other (%)	1		8.750									
101.03	Acid Soluble Calcium, AA, 965.09, test portion 200... (%)	1		0.1925									
101.30	Acid Soluble Calcium, ICP, test portion inorganic ... (%)	8	8	0.2995	0.1046	0.2749		0.0442	0.0195	16.08%		0.0223	4.86%
101.32	Acid Soluble Calcium, ICP, test portion 2006.03A-C (%)	1		0.3469									
101.33	Acid Soluble Calcium, ICP, test portion 2006.03A-C... (	4	4	0.2880	0.0307	0.2880		0.0307	0.0192	10.66%		0.0091	4.82%
101.99	Acid Soluble Calcium, Other (%)	1		0.2900									
121.03	Acid Soluble Magnesium, AA, 965.09, test portion 2... (	1		0.6495									
121.30	Acid Soluble Magnesium, ICP, test portion inorgani... (	7	7	0.7306	0.0816	0.7306		0.0926	0.0437	12.67%		0.0456	4.19%
121.32	Acid Soluble Magnesium, ICP, test portion 2006.03A... (	3	3	0.7466	0.0128	0.7466		0.0128	0.0092	1.71%		0.0123	4.18%
121.33	Acid Soluble Magnesium, ICP, test portion 2006.03A... (	4	4	0.7050	0.0463	0.7050		0.0463	0.0290	6.57%		0.0159	4.22%
121.99	Acid Soluble Magnesium, Other (%)	2	2	0.7559	0.0366								
143.99	Elemental Sulfur, Other (%)	2	2	2.128	0.0601								
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulfur - ... (%)	2	2	2.325	0.0071								
145.99	Sulfate Sulfur, HCl soluble, Other (%)	2	2	3.595	1.280								
148.01	Total Sulfur, Gravimetric - sulfate and elemental (%)	1		2.280									
148.07	Total Sulfur, ICP, test portion as in 2006.03 modi... (%)	6	6	2.216	0.1247	2.195		0.0882	0.0450	4.02%		0.0666	3.55%
148.99	Total Sulfur, Other (%)	3	3	2.159	0.0725	2.159		0.0725	0.0523	3.36%		0.1100	3.56%
149.04	Sulfur - HNO3 soluble, ICP (%)	3	3	2.264	0.0823	2.264		0.0823	0.0594	3.63%		0.0493	3.54%
151.00	Acid Soluble Arsenic , AA, test portion as in 2006... (p	1		1.450									
151.30	Acid Soluble Arsenic , ICP (ppm)	4	3	5.128	5.665	5.128		5.665	4.089	110.47%		0.1967	12.51%
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified w/9:3... (	4	4	1.665	0.9008	1.665		0.9008	0.5630	54.09%		0.2011	14.81%
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	1		0.0000									
151.99	Acid Soluble Arsenic , Other (ppm)	2	2	1.762	0.2376								
165.30	Acid Soluble Boron , ICP, test portion in 982.01 (%)	3	3	0.0165	0.0067	0.0165		0.0067	0.0048	40.81%		0.0018	7.42%
165.99	Acid Soluble Boron , Other (%)	7	7	0.0125	0.0061	0.0125		0.0069	0.0033	55.22%		0.0022	7.74%
181.00	Acid Soluble Cadmium , AA, test portion as in 2006... (	1		31.40									
181.30	Acid Soluble Cadmium , ICP (ppm)	9	9	30.01	14.92	29.46		4.376	1.823	14.85%		0.9298	9.61%
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified w/9:3..	6	6	30.72	2.964	30.72		3.361	1.715	10.94%		0.8791	9.55%
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	2	2	28.24	4.253								
181.99	Acid Soluble Cadmium , Other (ppm)	4	4	29.71	5.791	29.71		5.791	3.619	19.49%		0.6650	9.60%
190.00	Water Soluble Chlorine, Titrimetric (%)	1		0.5150									

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191.30	Acid Soluble Chromium , ICP (ppm)	9	8	215.0	96.82	206.4		57.14	25.25	27.68%		4.000	7.17%
191.33	Acid Soluble Chromium , ICP, 2006.03 modified w/9:...	7	6	222.4	14.82	220.5		12.26	6.254	5.56%		7.331	7.10%
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	2	2	222.2	28.01								
191.99	Acid Soluble Chromium , Other (ppm)	3	3	190.3	28.40	190.3		28.40	20.50	14.93%		3.653	7.26%
202.30	Acid Soluble Cobalt , ICP (ppm)	6	6	1.889	0.9356	1.725		0.6523	0.3329	37.81%		0.2084	14.74%
202.32	Acid Soluble Cobalt , ICP, 2006.03 (ppm)	1		0.6150									
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w/9:3 ... (p	4	3	0.8132	0.1191	0.8132		0.1191	0.0860	14.65%		0.1085	16.50%
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	1		0.0000									
202.99	Acid Soluble Cobalt , Other (ppm)	1		0.6150									
221.00	Acid Soluble Copper , AA, inorganic 965.09 (%)	1		0.0020									
221.30	Acid Soluble Copper , ICP, test portion inorganic ... (%)	2	1	0.0012									
221.32	Acid Soluble Copper , ICP, test portion 2006.03A-C (%)	2	2	0.0007	0.0008								
221.33	Acid Soluble Copper , ICP, test portion 2006.03A-C... (	2	2	0.0003	0.0002								
221.99	Acid Soluble Copper , Other (%)	4	4	0.0005	0.0005	0.0005		0.0005	0.0003	88.83%		0.0001	12.46%
241.03	Acid Soluble Iron, AA, 965.09, test portion 2006.0... (%)	1		0.4248									
241.30	Acid Soluble Iron, ICP, test portion inorganic 965... (%)	9	9	0.4385	0.0357	0.4341		0.0293	0.0122	6.76%		0.0259	4.53%
241.32	Acid Soluble Iron, ICP, test portion 2006.03A-C (%)	2	2	0.3939	0.0518								
241.33	Acid Soluble Iron, ICP, test portion 2006.03A-C, w... (%)	4	4	0.4255	0.0290	0.4255		0.0290	0.0181	6.82%		0.0165	4.55%
241.99	Acid Soluble Iron, Other (%)	2	2	0.4578	0.0096								
251.30	Acid Soluble Lead , ICP (ppm)	5	4	2.251	1.856	2.251		1.856	1.160	82.45%		0.3391	14.16%
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9:3 HN...	4	4	0.7124	0.6478	0.7124		0.6478	0.4049	90.94%		0.0829	16.83%
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	1		0.0000									
251.99	Acid Soluble Lead , Other (ppm)	1		0.3750									
261.15	Acid Soluble Manganese , AA, 965.09, test portion ... (	1		0.0046									
261.30	Acid Soluble Manganese , ICP, test portion 972.02a (%)	4	4	10.89	21.77	10.89		21.77	13.61	199.92%		0.1256	2.79%
261.32	Acid Soluble Manganese , ICP, test portion inorgan... (	1		0.0055									
261.34	Acid Soluble Manganese , ICP, test portion 2006.03...	2	2	0.0049	0.0014								
261.35	Acid Soluble Manganese , ICP, test portion 2006.03...	3	3	0.0043	0.0002	0.0043		0.0002	0.0001	4.24%		0.0002	9.10%
261.99	Acid Soluble Manganese , Other (%)	2	2	0.0048	0.0000								
281.30	Acid Soluble Mercury , ICP (ppm)	3	2	0.0659	0.0759	0.0659		0.0759	0.0671	115.22%		0.0056	24.09%
281.99	Acid Soluble Mercury , Other (ppm)	1		0.0250									
289.00	Acid Soluble Molybdenum , AA, test portion in 2006... (	1		4.263									
289.30	Acid Soluble Molybdenum , ICP (ppm)	6	5	3.946	1.370	3.946		1.370	0.7661	34.73%		0.3574	13.01%
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (ppm)	1		0.0011									
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modified w/..	6	6	3.948	1.346	3.948		1.527	0.7791	38.67%		0.1685	13.01%
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010C (p	1		1.581									
289.99	Acid Soluble Molybdenum , Other (ppm)	3	3	4.200	0.9896	4.200		0.9896	0.7142	23.56%		0.4600	12.89%
291.00	Acid Soluble Nickel , AA, test portion as in 2006.... (pp	1		13.00									
291.30	Acid Soluble Nickel , ICP (ppm)	9	9	12.38	4.245	11.50		1.551	0.6464	13.48%		0.3227	11.08%
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w/9:3 ... (p	7	7	13.11	3.210	12.64		1.697	0.8018	13.42%		0.9580	10.92%
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	2	2	11.00	3.400								
291.99	Acid Soluble Nickel , Other (ppm)	1		12.27									

Method Code	Analyte & Method	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	IA %RSD	Average Range (R-bar)	Horwitz %RSD
301.30	Acid Soluble Selenium , ICP (ppm)	2	1	0.1969									
301.33	Acid Soluble Selenium , ICP, 2006.03 modified w/9:...	3	2	2.147	0.3574	2.147		0.3574	0.3159	16.65%		0.4155	14.26%
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	1		0.0000									
301.99	Acid Soluble Selenium , Other (ppm)	1		0.0100									
311.32	Sodium, ICP, 2006.03 test portion (%)	1		0.2297									
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl test .	3	3	0.1890	0.0126	0.1890		0.0126	0.0091	6.68%		0.0187	5.14%
311.99	Sodium, Other (%)	3	3	0.1932	0.0199	0.1932		0.0199	0.0144	10.32%		0.0103	5.12%
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	1		0.0422									
321.03	Acid Soluble Zinc , AA, 965.09, test portion 2006.... (%)	1		0.0377									
321.30	Acid Soluble Zinc , ICP, test portion inorganic 96... (%)	11	11	0.0397	0.0037	0.0392		0.0020	0.0008	5.22%		0.0025	6.51%
321.32	Acid Soluble Zinc , ICP, test portion 2006.03A-C (%)	3	3	0.0174	0.0146	0.0174		0.0146	0.0106	84.24%		0.0001	7.36%
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, ... (%)	8	8	0.0384	0.0020	0.0388		0.0014	0.0006	3.68%		0.0012	6.52%
321.99	Acid Soluble Zinc , Other (%)	8	7	0.0358	0.0057	0.0358		0.0064	0.0030	18.03%		0.0001	6.60%
325.30	Water Soluble Zinc , ICP (%)	1		0.0350									

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STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 170111

Grade 18-46-0 DAP

Method Precision Report

Issue Date : 02/28/2017

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
001.99	Ammoniacal Nitrogen, Other (%)	18	16	18.27	0.2255	0.2090	0.1199	0.2409	1.14%	0.66%	1.32%	2.009
010.60	Total Nitrogen, Combustion (18%)	56	49	18.27	0.2844	0.2772	0.0898	0.2914	1.52%	0.49%	1.59%	3.246
020.20	Total Phosphorus as P2O5, Spectrophotometric MolybdovanadoP (%)	19	16	46.58	0.6469	0.6409	0.1242	0.6529	1.38%	0.27%	1.40%	5.256
020.50	Total Phosphorus as P2O5, ICP (%)	19	18	46.46	2.304	2.257	0.6496	2.349	4.86%	1.40%	5.06%	3.616
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA Ext. (46%)	13	13	46.64	0.6491	0.5805	0.4107	0.7111	1.24%	0.88%	1.52%	1.731
181.30	Acid Soluble Cadmium , ICP (ppm)	9	9	30.01	14.92	14.91	0.9809	14.94	49.67%	3.27%	49.78%	15.23
241.30	Acid Soluble Iron, ICP, test portion inorganic 965.09 (%)	9	8	0.4286	0.0213	0.0109	0.0259	0.0281	2.54%	6.04%	6.56%	1.085
291.30	Acid Soluble Nickel , ICP (ppm)	9	8	11.05	1.507	1.496	0.2560	1.518	13.54%	2.32%	13.74%	5.930
321.30	Acid Soluble Zinc , ICP, test portion inorganic 965.09 (%)	11	10	0.0388	0.0019		0.0028			7.27%		

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

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STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Methods: 129

Sample # 170111

Lab Values

Labs Reporting: 84

Grade 18-46-0 DAP

Issue Date : 02/28/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0231	17.64	0.0700	18.13	0.1322	0.0789	8	-3.42	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0513	18.05	0.0600	18.13	0.1322	0.0789	8	-0.55	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0444	18.07	0.1400	18.13	0.1322	0.0789	8	-0.41	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0177	18.11	0.0833	18.13	0.1322	0.0789	8	-0.12	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0526	18.18	0.0777	18.13	0.1322	0.0789	8	0.34	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0486	18.18	0.1200	18.13	0.1322	0.0789	8	0.35	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0456	18.19	0.0300	18.13	0.1322	0.0789	8	0.39	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0405	18.34	0.0500	18.13	0.1322	0.0789	8	1.47	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0520	17.80	0.0100	18.28	0.2364	0.1209	16	-2.06	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0487	17.95	0.3000	18.28	0.2364	0.1209	16	-1.41	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0519	18.00	0.0200	18.28	0.2364	0.1209	16	-1.20	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0513	18.06	0.0800	18.28	0.2364	0.1209	16	-0.94	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0027	18.15	0.2700	18.28	0.2364	0.1209	16	-0.58	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0501	18.25	0.1000	18.28	0.2364	0.1209	16	-0.14	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0371	18.30	0.0000	18.28	0.2364	0.1209	16	0.07	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0506	18.30	0.4000	18.28	0.2364	0.1209	16	0.07	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0493	18.35	0.1000	18.28	0.2364	0.1209	16	0.28	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0404	18.41	0.0700	18.28	0.2364	0.1209	16	0.52	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0522	18.42	0.1500	18.28	0.2364	0.1209	16	0.56	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0524	18.42	0.0339	18.28	0.2364	0.1209	16	0.59	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0220	18.43	0.0900	18.28	0.2364	0.1209	16	0.60	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0416	18.47	0.0300	18.28	0.2364	0.1209	16	0.77	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0423	18.50	0.2700	18.28	0.2364	0.1209	16	0.90	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0096	18.62	0.0100	18.28	0.2364	0.1209	16	1.41	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0368	17.47	0.6200	18.28	0.2364	0.1209	16	-3.44	2%	1
001.99	Ammoniacal Nitrogen, Other (%)	0394	11.45	0.1000	18.28	0.2364	0.1209	16	-28.90	19%	2
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0090	18.33	0.1400				1			0
009.99	Ammoniacal Plus Nitrate Nitrogen, Other (%)	0518	18.02	0.1600				1			0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0114	9.285*	0.0100	17.97	0.4890	0.0950	6	-15.82	24%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0309	17.81	0.2600	17.97	0.4890	0.0950	6	-0.30	0%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0455	17.88	0.0500	17.97	0.4890	0.0950	6	-0.18	0%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0500	18.19	0.0200	17.97	0.4890	0.0950	6	0.39	1%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0105	18.31	0.1400	17.97	0.4890	0.0950	6	0.61	1%	0

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010.11	Total Nitrogen, Modified Comprehensive (18%)	0404	18.42	0.0900	17.97	0.4890	0.0950	6	0.80	1%	0
010.12	Total Nitrogen, Salicylic (18%)	0185	18.45	0.0900				1			0
010.17	Total Nitrogen, Comprehensive (18%)	0526	18.28	0.3101				2			0
010.17	Total Nitrogen, Comprehensive (18%)	0211	18.33	0.0900				2			0
010.60	Total Nitrogen, Combustion (18%)	0521	16.22*	0.0000	18.29	0.2722	0.1205	54	-7.61	6%	0
010.60	Total Nitrogen, Combustion (18%)	0034	17.33*	0.1900	18.29	0.2722	0.1205	54	-3.56	3%	0
010.60	Total Nitrogen, Combustion (18%)	0230	17.60	0.2000	18.29	0.2722	0.1205	54	-2.55	2%	0
010.60	Total Nitrogen, Combustion (18%)	0421	17.73	0.0400	18.29	0.2722	0.1205	54	-2.07	2%	0
010.60	Total Nitrogen, Combustion (18%)	0007	17.85	0.1000	18.29	0.2722	0.1205	54	-1.63	1%	0
010.60	Total Nitrogen, Combustion (18%)	0354	17.86	0.0580	18.29	0.2722	0.1205	54	-1.59	1%	0
010.60	Total Nitrogen, Combustion (18%)	0527	17.87	0.1700	18.29	0.2722	0.1205	54	-1.58	1%	0
010.60	Total Nitrogen, Combustion (18%)	0035	17.93	0.1700	18.29	0.2722	0.1205	54	-1.35	1%	0
010.60	Total Nitrogen, Combustion (18%)	0444	17.97	0.1000	18.29	0.2722	0.1205	54	-1.19	1%	0
010.60	Total Nitrogen, Combustion (18%)	0485	18.10	0.5100	18.29	0.2722	0.1205	54	-0.73	1%	0
010.60	Total Nitrogen, Combustion (18%)	0234	18.10	0.0800	18.29	0.2722	0.1205	54	-0.71	1%	0
010.60	Total Nitrogen, Combustion (18%)	0523	18.10	0.0000	18.29	0.2722	0.1205	54	-0.71	1%	0
010.60	Total Nitrogen, Combustion (18%)	0356	18.14	0.0800	18.29	0.2722	0.1205	54	-0.56	0%	0
010.60	Total Nitrogen, Combustion (18%)	0324	18.15	0.1000	18.29	0.2722	0.1205	54	-0.53	0%	0
010.60	Total Nitrogen, Combustion (18%)	0489	18.15	0.1000	18.29	0.2722	0.1205	54	-0.53	0%	0
010.60	Total Nitrogen, Combustion (18%)	0041	18.17	0.0300	18.29	0.2722	0.1205	54	-0.47	0%	0
010.60	Total Nitrogen, Combustion (18%)	0157	18.20	0.0000	18.29	0.2722	0.1205	54	-0.34	0%	0
010.60	Total Nitrogen, Combustion (18%)	0482	18.20	0.2000	18.29	0.2722	0.1205	54	-0.34	0%	0
010.60	Total Nitrogen, Combustion (18%)	0231	18.23	0.0000	18.29	0.2722	0.1205	54	-0.23	0%	0
010.60	Total Nitrogen, Combustion (18%)	0027	18.25	0.3000	18.29	0.2722	0.1205	54	-0.16	0%	0
010.60	Total Nitrogen, Combustion (18%)	0423	18.26	0.0900	18.29	0.2722	0.1205	54	-0.14	0%	0
010.60	Total Nitrogen, Combustion (18%)	0043	18.27	0.0200	18.29	0.2722	0.1205	54	-0.09	0%	0
010.60	Total Nitrogen, Combustion (18%)	0029	18.28	0.0700	18.29	0.2722	0.1205	54	-0.07	0%	0
010.60	Total Nitrogen, Combustion (18%)	0292	18.28	0.0500	18.29	0.2722	0.1205	54	-0.07	0%	0
010.60	Total Nitrogen, Combustion (18%)	0073	18.29	0.1300	18.29	0.2722	0.1205	54	-0.03	0%	0
010.60	Total Nitrogen, Combustion (18%)	0291	18.29	0.0100	18.29	0.2722	0.1205	54	-0.03	0%	0
010.60	Total Nitrogen, Combustion (18%)	0023	18.29	0.0070	18.29	0.2722	0.1205	54	-0.03	0%	0
010.60	Total Nitrogen, Combustion (18%)	0501	18.30	0.1000	18.29	0.2722	0.1205	54	0.03	0%	0
010.60	Total Nitrogen, Combustion (18%)	0451	18.32	0.3000	18.29	0.2722	0.1205	54	0.10	0%	0
010.60	Total Nitrogen, Combustion (18%)	0406	18.33	0.4600	18.29	0.2722	0.1205	54	0.13	0%	0
010.60	Total Nitrogen, Combustion (18%)	0042	18.35	0.0400	18.29	0.2722	0.1205	54	0.21	0%	0
010.60	Total Nitrogen, Combustion (18%)	0457	18.35	0.1000	18.29	0.2722	0.1205	54	0.21	0%	0
010.60	Total Nitrogen, Combustion (18%)	0525	18.35	0.0510	18.29	0.2722	0.1205	54	0.22	0%	0
010.60	Total Nitrogen, Combustion (18%)	0095	18.37	0.0900	18.29	0.2722	0.1205	54	0.26	0%	0
010.60	Total Nitrogen, Combustion (18%)	0405	18.37	0.0400	18.29	0.2722	0.1205	54	0.28	0%	0
010.60	Total Nitrogen, Combustion (18%)	0105	18.39	0.0570	18.29	0.2722	0.1205	54	0.34	0%	0
010.60	Total Nitrogen, Combustion (18%)	0377	18.39	0.2000	18.29	0.2722	0.1205	54	0.35	0%	0
010.60	Total Nitrogen, Combustion (18%)	0389	18.40	0.2000	18.29	0.2722	0.1205	54	0.39	0%	0
010.60	Total Nitrogen, Combustion (18%)	0086	18.44	0.1460	18.29	0.2722	0.1205	54	0.54	0%	0

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010.60	Total Nitrogen, Combustion (18%)	0136	18.46	0.0300	18.29	0.2722	0.1205	54	0.59	0%	0
010.60	Total Nitrogen, Combustion (18%)	0494	18.46	0.1600	18.29	0.2722	0.1205	54	0.61	0%	0
010.60	Total Nitrogen, Combustion (18%)	0472	18.47	0.0500	18.29	0.2722	0.1205	54	0.63	0%	0
010.60	Total Nitrogen, Combustion (18%)	0040	18.50	0.2000	18.29	0.2722	0.1205	54	0.76	1%	0
010.60	Total Nitrogen, Combustion (18%)	0402	18.51	0.0300	18.29	0.2722	0.1205	54	0.78	1%	0
010.60	Total Nitrogen, Combustion (18%)	0025	18.55	0.0100	18.29	0.2722	0.1205	54	0.92	1%	0
010.60	Total Nitrogen, Combustion (18%)	0131	18.57	0.6810	18.29	0.2722	0.1205	54	1.00	1%	0
010.60	Total Nitrogen, Combustion (18%)	0422	18.57	0.0200	18.29	0.2722	0.1205	54	1.01	1%	0
010.60	Total Nitrogen, Combustion (18%)	0055	18.58	0.0200	18.29	0.2722	0.1205	54	1.05	1%	0
010.60	Total Nitrogen, Combustion (18%)	0096	18.60	0.0200	18.29	0.2722	0.1205	54	1.13	1%	0
010.60	Total Nitrogen, Combustion (18%)	0452	18.66	0.0200	18.29	0.2722	0.1205	54	1.35	1%	0
010.60	Total Nitrogen, Combustion (18%)	0486	18.69	0.2800	18.29	0.2722	0.1205	54	1.46	1%	0
010.60	Total Nitrogen, Combustion (18%)	0516	18.70	0.2000	18.29	0.2722	0.1205	54	1.49	1%	0
010.60	Total Nitrogen, Combustion (18%)	0483	18.70	0.1250	18.29	0.2722	0.1205	54	1.50	1%	0
010.60	Total Nitrogen, Combustion (18%)	0443	19.95	0.0700	18.29	0.2722	0.1205	54	6.07	5%	0
010.60	Total Nitrogen, Combustion (18%)	0307	18.09	1.612	18.29	0.2722	0.1205	54	-0.73	1%	1
010.60	Total Nitrogen, Combustion (18%)	0368	18.38	1.182	18.29	0.2722	0.1205	54	0.31	0%	1
010.99	Total Nitrogen, Other (18%)	0519	18.01	0.0200	18.34	0.2803	0.1535	5	-1.16	1%	0
010.99	Total Nitrogen, Other (18%)	0520	18.18	0.2500	18.34	0.2803	0.1535	5	-0.57	0%	0
010.99	Total Nitrogen, Other (18%)	0506	18.30	0.4000	18.34	0.2803	0.1535	5	-0.13	0%	0
010.99	Total Nitrogen, Other (18%)	0220	18.45	0.0400	18.34	0.2803	0.1535	5	0.41	0%	0
010.99	Total Nitrogen, Other (18%)	0524	18.75	0.0576	18.34	0.2803	0.1535	5	1.46	1%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0157	46.20	0.2000	46.66	0.3779	0.2214	7	-1.10	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0500	46.32	0.0400	46.66	0.3779	0.2214	7	-0.82	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0444	46.55	0.7500	46.66	0.3779	0.2214	7	-0.28	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0090	46.71	0.3100	46.66	0.3779	0.2214	7	0.11	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0493	46.75	0.1000	46.66	0.3779	0.2214	7	0.21	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0211	46.99	0.0800	46.66	0.3779	0.2214	7	0.79	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0105	47.12	0.0700	46.66	0.3779	0.2214	7	1.09	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0394	42.15	0.1000	46.45	0.5770	0.1602	18	-7.46	5%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0516	45.31	0.2200	46.45	0.5770	0.1602	18	-1.98	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0356	45.76	0.0200	46.45	0.5770	0.1602	18	-1.20	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0506	46.10	0.6000	46.45	0.5770	0.1602	18	-0.61	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0230	46.15	0.3000	46.45	0.5770	0.1602	18	-0.53	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0405	46.28	0.1230	46.45	0.5770	0.1602	18	-0.30	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0457	46.31	0.1200	46.45	0.5770	0.1602	18	-0.25	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0489	46.33	0.0600	46.45	0.5770	0.1602	18	-0.22	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0371	46.40	0.2000	46.45	0.5770	0.1602	18	-0.09	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0309	46.40	0.2400	46.45	0.5770	0.1602	18	-0.09	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0231	46.66	0.2100	46.45	0.5770	0.1602	18	0.35	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0220	46.71	0.0200	46.45	0.5770	0.1602	18	0.44	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0493	46.75	0.1000	46.45	0.5770	0.1602	18	0.51	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0522	46.78	0.0800	46.45	0.5770	0.1602	18	0.56	0%	0

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020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0292	46.86	0.0500	46.45	0.5770	0.1602	18	0.69	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0416	46.88	0.0200	46.45	0.5770	0.1602	18	0.74	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0324	47.60	0.4000	46.45	0.5770	0.1602	18	1.99	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0406	48.07	0.0200	46.45	0.5770	0.1602	18	2.80	2%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0027	44.87	1.198	46.45	0.5770	0.1602	18	-2.74	2%	1
020.40	Total Phosphorus as P2O5, Automated (%)	0042	45.44	0.2000	46.29	0.6351	0.2914	7	-1.21	1%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0456	45.73	0.0500	46.29	0.6351	0.2914	7	-0.81	1%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0486	46.28	0.7100	46.29	0.6351	0.2914	7	-0.03	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0404	46.44	0.2300	46.29	0.6351	0.2914	7	0.20	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0105	46.45	0.1600	46.29	0.6351	0.2914	7	0.22	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0096	46.60	0.2200	46.29	0.6351	0.2914	7	0.44	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0035	47.13	0.4700	46.29	0.6351	0.2914	7	1.18	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0157	42.00	1.000	46.59	2.078	0.7714	19	-2.21	5%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0433	42.80	0.3900	46.59	2.078	0.7714	19	-1.83	4%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0472	44.18	0.0900	46.59	2.078	0.7714	19	-1.16	3%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0234	45.60	0.3200	46.59	2.078	0.7714	19	-0.48	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0482	45.75	0.9000	46.59	2.078	0.7714	19	-0.40	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0389	45.92	0.1600	46.59	2.078	0.7714	19	-0.32	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0402	45.96	1.150	46.59	2.078	0.7714	19	-0.30	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0368	46.06	0.0649	46.59	2.078	0.7714	19	-0.25	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0521	46.11	0.0000	46.59	2.078	0.7714	19	-0.23	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0421	46.20	0.5400	46.59	2.078	0.7714	19	-0.19	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0523	46.90	0.0000	46.59	2.078	0.7714	19	0.15	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0527	46.97	0.3700	46.59	2.078	0.7714	19	0.18	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0025	47.13	0.5000	46.59	2.078	0.7714	19	0.26	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0451	47.21	0.4300	46.59	2.078	0.7714	19	0.30	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0423	47.46	0.8000	46.59	2.078	0.7714	19	0.42	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0524	47.68	0.6744	46.59	2.078	0.7714	19	0.52	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0501	50.32	2.887	46.59	2.078	0.7714	19	1.80	4%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0422	51.02	1.860	46.59	2.078	0.7714	19	2.13	5%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0483	51.44	2.520	46.59	2.078	0.7714	19	2.34	5%	0
020.99	Total Phosphorus as P2O5, Other (%)	0455	45.53	0.0500	46.10	0.5101	0.0463	6	-1.00	1%	0
020.99	Total Phosphorus as P2O5, Other (%)	0520	45.71	0.0200	46.10	0.5101	0.0463	6	-0.68	0%	0
020.99	Total Phosphorus as P2O5, Other (%)	0519	45.94	0.0700	46.10	0.5101	0.0463	6	-0.29	0%	0
020.99	Total Phosphorus as P2O5, Other (%)	0513	46.35	0.1000	46.10	0.5101	0.0463	6	0.44	0%	0
020.99	Total Phosphorus as P2O5, Other (%)	0526	46.38	0.0378	46.10	0.5101	0.0463	6	0.49	0%	0
020.99	Total Phosphorus as P2O5, Other (%)	0487	46.70	0.0000	46.10	0.5101	0.0463	6	1.05	1%	0
020.99	Total Phosphorus as P2O5, Other (%)	0443	47.78	1.180	46.10	0.5101	0.0463	6	2.93	2%	1
030.20	Citrate Insoluble Phosphorus as P2O5, Spectro... (%)	0405	0.0485	0.0030				1			0
030.40	Citrate Insoluble Phosphorus as P2O5, Automat... (%)	0404	0.0650	0.0100				2			0
030.40	Citrate Insoluble Phosphorus as P2O5, Automat... (%)	0096	0.0900	0.0800				2			0
040.20	Indirect Available Phosphorus as P2O5, Spectr... (46%)	0405	46.23	0.1260				1			0
040.40	Indirect Available Phosphorus as P2O5, Automa... (46%)	0404	46.37	0.2200				2			0

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040.40	Indirect Available Phosphorus as P2O5, Automa... (46%)	0096	46.51	0.3000				2			0
040.99	Indirect Available Phosphorus as P2O5, Other (46%)	0394	41.91*	0.1260				1			0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0041	45.87	1.360	46.57	0.5176	0.4800	4	-1.34	1%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0055	46.58	0.2100	46.57	0.5176	0.4800	4	0.02	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0040	46.70	0.0000	46.57	0.5176	0.4800	4	0.26	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0494	47.12	0.3500	46.57	0.5176	0.4800	4	1.06	1%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0513	46.28	0.1300	46.98	0.6484	0.1320	5	-1.09	1%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0522	46.29	0.2600	46.98	0.6484	0.1320	5	-1.06	1%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0105	47.25	0.0700	46.98	0.6484	0.1320	5	0.41	0%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0485	47.54	0.1000	46.98	0.6484	0.1320	5	0.86	1%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0117	47.55	0.1000	46.98	0.6484	0.1320	5	0.88	1%	0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (46%)	0027	45.40*	0.2000				1			0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (46%)	0522	46.11	0.3100				1			0
041.31	Direct Available Phosphorus as P2O5, Alkalime... (46%)	0220	46.91	0.0300				1			0
041.40	Direct Available Phosphorus as P2O5, Automate... (46%)	0131	47.22	0.6700				1			0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0368	45.36*	1.135	46.73	0.9845	0.7363	4	-1.39	1%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0291	46.82	0.0100	46.73	0.9845	0.7363	4	0.09	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0007	47.05	1.700	46.73	0.9845	0.7363	4	0.33	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0452	47.69	0.1000	46.73	0.9845	0.7363	4	0.98	1%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (46%)	0423	44.73*	0.3400	46.11	0.5497	0.2257	7	-2.27	1%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (46%)	0040	45.65	0.5000	46.11	0.5497	0.2257	7	-0.76	0%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (46%)	0117	46.01	0.1100	46.11	0.5497	0.2257	7	-0.17	0%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (46%)	0037	46.38	0.2900	46.11	0.5497	0.2257	7	0.43	0%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (46%)	0494	46.40	0.0300	46.11	0.5497	0.2257	7	0.47	0%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (46%)	0377	46.52	0.2400	46.11	0.5497	0.2257	7	0.67	0%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (46%)	0023	46.55	0.0700	46.11	0.5497	0.2257	7	0.71	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0472	45.66	0.0900	46.61	0.6843	0.4191	13	-1.40	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0029	45.73	0.6800	46.61	0.6843	0.4191	13	-1.29	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0526	46.18	0.0889	46.61	0.6843	0.4191	13	-0.64	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0043	46.41	0.1200	46.61	0.6843	0.4191	13	-0.30	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0230	46.45	1.300	46.61	0.6843	0.4191	13	-0.24	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0486	46.54	0.3400	46.61	0.6843	0.4191	13	-0.11	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0231	46.55	0.0900	46.61	0.6843	0.4191	13	-0.10	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0073	46.55	0.2200	46.61	0.6843	0.4191	13	-0.09	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0105	46.56	0.0900	46.61	0.6843	0.4191	13	-0.08	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0354	46.95	0.0130	46.61	0.6843	0.4191	13	0.49	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0136	47.23	0.6200	46.61	0.6843	0.4191	13	0.90	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0055	47.54	0.7900	46.61	0.6843	0.4191	13	1.35	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0034	47.93	1.007	46.61	0.6843	0.4191	13	1.93	1%	0
041.99	Direct Available Phosphorus as P2O5, Other (46%)	0519	45.91	0.0100				2			0
041.99	Direct Available Phosphorus as P2O5, Other (46%)	0518	46.15	0.1000				2			0
042.99	Water Soluble Orthophosphate as P2O5, Other (%)	0519	41.94	0.0800				1			0
048.10	Water Soluble Phosphorus as P2O5, Gravimetric... (%)	0444	44.19	0.1800				1			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0394	37.80	0.0000	43.70	2.021	0.1421	7	-2.64	7%	0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0309	42.78	0.1600	43.70	2.021	0.1421	7	-0.41	1%	0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0231	43.68	0.0000	43.70	2.021	0.1421	7	-0.01	0%	0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0522	43.77	0.4200	43.70	2.021	0.1421	7	0.03	0%	0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0405	43.81	0.0950	43.70	2.021	0.1421	7	0.05	0%	0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0220	44.63	0.0200	43.70	2.021	0.1421	7	0.42	1%	0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0230	46.55	0.3000	43.70	2.021	0.1421	7	1.28	3%	0
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	0096	44.25	0.0200				1			0
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	0501	44.52	4.722				2			0
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	0368	45.25	1.478				2			0
048.99	Water Soluble Phosphorus as P2O5, Other (%)	0520	41.93	0.0600	42.84	1.088	0.2192	5	-0.83	1%	0
048.99	Water Soluble Phosphorus as P2O5, Other (%)	0518	42.05	0.3000	42.84	1.088	0.2192	5	-0.72	1%	0
048.99	Water Soluble Phosphorus as P2O5, Other (%)	0526	42.15	0.1162	42.84	1.088	0.2192	5	-0.63	1%	0
048.99	Water Soluble Phosphorus as P2O5, Other (%)	0025	43.98	0.1900	42.84	1.088	0.2192	5	1.05	1%	0
048.99	Water Soluble Phosphorus as P2O5, Other (%)	0513	44.08	0.4300	42.84	1.088	0.2192	5	1.14	1%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (%)	0114	47.78	0.2500				1			0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (%)	0292	0.0900	0.0000				1			0
050.51	Soluble Potassium as K2O, ICP (Citrate) (%)	0483	0.3350	0.0300				1			0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	0354	0.2090	0.0080	0.3080	0.1455	0.0593	3	-0.68	16%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	0494	0.2400	0.1400	0.3080	0.1455	0.0593	3	-0.47	11%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	0423	0.4750	0.0300	0.3080	0.1455	0.0593	3	1.15	27%	0
050.99	Soluble Potassium as K2O, Other (%)	0482	0.1650	0.0100	0.1891	0.0222	0.0056	6	-0.97	6%	0
050.99	Soluble Potassium as K2O, Other (%)	0096	0.1750	0.0100	0.1891	0.0222	0.0056	6	-0.57	4%	0
050.99	Soluble Potassium as K2O, Other (%)	0389	0.1800	0.0000	0.1891	0.0222	0.0056	6	-0.37	2%	0
050.99	Soluble Potassium as K2O, Other (%)	0524	0.1910	0.0037	0.1891	0.0222	0.0056	6	0.07	0%	0
050.99	Soluble Potassium as K2O, Other (%)	0521	0.2087	0.0000	0.1891	0.0222	0.0056	6	0.79	5%	0
050.99	Soluble Potassium as K2O, Other (%)	0527	0.2150	0.0100	0.1891	0.0222	0.0056	6	1.04	7%	0
060.00	Water (Free), Vacuum Oven (%)	0007	0.6250	0.0300	0.7936	0.1758	0.0252	4	-0.96	11%	0
060.00	Water (Free), Vacuum Oven (%)	0456	0.6600	0.0200	0.7936	0.1758	0.0252	4	-0.76	8%	0
060.00	Water (Free), Vacuum Oven (%)	0096	0.9250	0.0500	0.7936	0.1758	0.0252	4	0.75	8%	0
060.00	Water (Free), Vacuum Oven (%)	0416	0.9644	0.0007	0.7936	0.1758	0.0252	4	0.97	11%	0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0513	1.880	0.1000				1			0
060.99	Water (Free), Other (%)	0055	8.750	0.3000				1			0
101.03	Acid Soluble Calcium, AA, 965.09, test portio... (%)	0105	0.1925	0.0033				1			0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0472	0.2000	0.0000	0.2749	0.0442	0.0223	8	-1.55	14%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0035	0.2470	0.0180	0.2749	0.0442	0.0223	8	-0.58	5%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0482	0.2650	0.0100	0.2749	0.0442	0.0223	8	-0.21	2%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0096	0.2680	0.0120	0.2749	0.0442	0.0223	8	-0.14	1%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0041	0.2750	0.0700	0.2749	0.0442	0.0223	8	0.00	0%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0354	0.2895	0.0350	0.2749	0.0442	0.0223	8	0.30	3%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0404	0.3050	0.0100	0.2749	0.0442	0.0223	8	0.62	5%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0483	0.5465	0.0230	0.2749	0.0442	0.0223	8	5.62	49%	0
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0521	0.3469	0.0000				1			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0494	0.2563	0.0110	0.2880	0.0307	0.0091	4	-1.03	6%	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0117	0.2706	0.0009	0.2880	0.0307	0.0091	4	-0.57	3%	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0421	0.3002	0.0144	0.2880	0.0307	0.0091	4	0.40	2%	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0527	0.3250	0.0100	0.2880	0.0307	0.0091	4	1.20	6%	0
101.99	Acid Soluble Calcium, Other (%)	0389	0.2900	0.0200				1			0
121.03	Acid Soluble Magnesium, AA, 965.09, test port... (%)	0105	0.6495	0.0402				1			0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0354	0.6555	0.0510	0.7306	0.0926	0.0456	7	-0.73	5%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0035	0.6695	0.0850	0.7306	0.0926	0.0456	7	-0.60	4%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0096	0.6750	0.0000	0.7306	0.0926	0.0456	7	-0.54	4%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0041	0.7100	0.1200	0.7306	0.0926	0.0456	7	-0.20	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0482	0.7150	0.0500	0.7306	0.0926	0.0456	7	-0.15	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0472	0.8250	0.0100	0.7306	0.0926	0.0456	7	0.92	6%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0483	0.8645	0.0030	0.7306	0.0926	0.0456	7	1.31	9%	0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (%)	0423	0.7345	0.0170	0.7466	0.0128	0.0123	3	-0.95	1%	0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (%)	0521	0.7454	0.0000	0.7466	0.0128	0.0123	3	-0.10	0%	0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (%)	0404	0.7600	0.0200	0.7466	0.0128	0.0123	3	1.04	1%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0494	0.6577	0.0183	0.7050	0.0463	0.0159	4	-1.02	3%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0527	0.6800	0.0200	0.7050	0.0463	0.0159	4	-0.54	2%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0117	0.7196	0.0073	0.7050	0.0463	0.0159	4	0.31	1%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0421	0.7630	0.0181	0.7050	0.0463	0.0159	4	1.25	4%	0
121.99	Acid Soluble Magnesium, Other (%)	0389	0.7300	0.0000				2			0
121.99	Acid Soluble Magnesium, Other (%)	0524	0.7818	0.0098				2			0
143.99	Elemental Sulfur, Other (%)	0389	2.085	0.0100				2			0
143.99	Elemental Sulfur, Other (%)	0472	2.170	0.0200				2			0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0522	2.320	0.0200				2			0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0405	2.330	0.0200				2			0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0404	2.690	0.0600				2			0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0394	4.500	0.0800				2			0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (%)	0105	2.280	0.0200				1			0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0494	2.111	0.0105	2.195	0.0882	0.0666	6	-0.85	2%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0527	2.125	0.1500	2.195	0.0882	0.0666	6	-0.70	2%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0292	2.180	0.0000	2.195	0.0882	0.0666	6	-0.15	0%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0117	2.211	0.0190	2.195	0.0882	0.0666	6	0.16	0%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0421	2.215	0.1100	2.195	0.0882	0.0666	6	0.20	0%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0483	2.455	0.1100	2.195	0.0882	0.0666	6	2.63	6%	0
148.99	Total Sulfur, Other (%)	0096	2.085	0.0700	2.159	0.0725	0.1100	3	-1.02	2%	0
148.99	Total Sulfur, Other (%)	0354	2.161	0.1600	2.159	0.0725	0.1100	3	0.03	0%	0
148.99	Total Sulfur, Other (%)	0482	2.230	0.1000	2.159	0.0725	0.1100	3	0.98	2%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0521	2.177	0.0000	2.264	0.0823	0.0493	3	-1.06	2%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0524	2.274	0.0080	2.264	0.0823	0.0493	3	0.13	0%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0423	2.340	0.1400	2.264	0.0823	0.0493	3	0.93	2%	0
151.00	Acid Soluble Arsenic , AA, test portion as in... (ppm)	0136	1.450	0.1000				1			0
151.30	Acid Soluble Arsenic , ICP (ppm)	0096	1.250	0.1000	5.128	5.665	0.1967	3	-0.68	38%	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
151.30	Acid Soluble Arsenic , ICP (ppm)	0523	2.505	0.2700	5.128	5.665	0.1967	3	-0.46	26%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0394	11.63	0.2200	5.128	5.665	0.1967	3	1.15	63%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0368	0.4229	0.8458	5.128	5.665	0.1967	3			4
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0515	0.3771	0.1584	1.665	0.9008	0.2011	4	-1.43	39%	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0220	1.750	0.5000	1.665	0.9008	0.2011	4	0.09	3%	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0527	2.120	0.0400	1.665	0.9008	0.2011	4	0.50	14%	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0494	2.414	0.1060	1.665	0.9008	0.2011	4	0.83	22%	0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0515	0.0000	0.0000				0			4
151.99	Acid Soluble Arsenic , Other (ppm)	0520	1.594	0.0060				2			0
151.99	Acid Soluble Arsenic , Other (ppm)	0519	1.930	0.1200				2			0
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0521	0.0087	0.0000	0.0165	0.0067	0.0018	3	-1.15	24%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0389	0.0202	0.0005	0.0165	0.0067	0.0018	3	0.55	11%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0354	0.0205	0.0050	0.0165	0.0067	0.0018	3	0.60	12%	0
165.99	Acid Soluble Boron , Other (%)	0421	0.0080	0.0060	0.0125	0.0069	0.0022	7	-0.59	18%	0
165.99	Acid Soluble Boron , Other (%)	0524	0.0082	0.0000	0.0125	0.0069	0.0022	7	-0.56	17%	0
165.99	Acid Soluble Boron , Other (%)	0423	0.0086	0.0002	0.0125	0.0069	0.0022	7	-0.51	16%	0
165.99	Acid Soluble Boron , Other (%)	0472	0.0100	0.0000	0.0125	0.0069	0.0022	7	-0.33	10%	0
165.99	Acid Soluble Boron , Other (%)	0482	0.0100	0.0000	0.0125	0.0069	0.0022	7	-0.33	10%	0
165.99	Acid Soluble Boron , Other (%)	0483	0.0206	0.0053	0.0125	0.0069	0.0022	7	1.06	32%	0
165.99	Acid Soluble Boron , Other (%)	0527	0.0220	0.0040	0.0125	0.0069	0.0022	7	1.25	38%	0
181.00	Acid Soluble Cadmium , AA, test portion as in... (ppm)	0136	31.40	0.2000				1			0
181.30	Acid Soluble Cadmium , ICP (ppm)	0394	2.480	0.0200	29.46	4.376	0.9298	9	-5.69	46%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0368	26.86	2.801	29.46	4.376	0.9298	9	-0.55	4%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0444	27.19	0.0700	29.46	4.376	0.9298	9	-0.48	4%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0035	28.00	2.600	29.46	4.376	0.9298	9	-0.31	2%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0096	28.95	0.9000	29.46	4.376	0.9298	9	-0.11	1%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0482	30.50	0.4000	29.46	4.376	0.9298	9	0.22	2%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0389	31.60	0.2000	29.46	4.376	0.9298	9	0.45	4%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0524	33.11	0.0764	29.46	4.376	0.9298	9	0.77	6%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0523	61.45	1.300	29.46	4.376	0.9298	9	6.75	54%	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0515	26.28	2.116	30.72	3.361	0.8791	6	-1.18	7%	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0494	29.19	1.162	30.72	3.361	0.8791	6	-0.40	2%	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0037	30.61	0.7140	30.72	3.361	0.8791	6	-0.03	0%	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0117	31.45	0.2500	30.72	3.361	0.8791	6	0.19	1%	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0220	31.50	1.000	30.72	3.361	0.8791	6	0.21	1%	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0527	35.27	0.0320	30.72	3.361	0.8791	6	1.21	7%	0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0515	25.24	0.2800				2			0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0230	31.25	0.3000				2			0
181.99	Acid Soluble Cadmium , Other (ppm)	0520	22.76	0.0800	29.71	5.791	0.6650	4	-1.20	12%	0
181.99	Acid Soluble Cadmium , Other (ppm)	0487	27.50	0.6000	29.71	5.791	0.6650	4	-0.38	4%	0
181.99	Acid Soluble Cadmium , Other (ppm)	0519	32.62	0.0800	29.71	5.791	0.6650	4	0.50	5%	0
181.99	Acid Soluble Cadmium , Other (ppm)	0506	35.95	1.900	29.71	5.791	0.6650	4	1.08	11%	0
190.00	Water Soluble Chlorine, Titrimetric (%)	0105	0.5150	0.0500				1			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
191.30	Acid Soluble Chromium , ICP (ppm)	0394	66.85	0.3000	206.4	57.14	4.000	8	-2.23	34%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0027	158.0	0.0000	206.4	57.14	4.000	8	-0.77	12%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0035	204.0	8.000	206.4	57.14	4.000	8	-0.04	1%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0444	209.5	5.000	206.4	57.14	4.000	8	0.05	1%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0096	215.5	1.700	206.4	57.14	4.000	8	0.14	2%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0482	221.0	2.000	206.4	57.14	4.000	8	0.23	4%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0389	230.5	3.000	206.4	57.14	4.000	8	0.39	6%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0523	415.0	12.00	206.4	57.14	4.000	8	3.34	51%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0368	199.4	27.48	206.4	57.14	4.000	8	-0.11	2%	1
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0494	206.9	8.645	220.5	12.26	7.331	6	-0.99	3%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0515	215.0	19.08	220.5	12.26	7.331	6	-0.40	1%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0117	217.3	0.7000	220.5	12.26	7.331	6	-0.24	1%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0220	220.5	1.000	220.5	12.26	7.331	6	0.00	0%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0037	224.7	5.429	220.5	12.26	7.331	6	0.30	1%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0527	250.1	9.134	220.5	12.26	7.331	6	2.15	7%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0105	225.1	55.30	220.5	12.26	7.331	6	0.33	1%	1
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0515	202.4	0.3920				2			0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0230	242.0	4.000				2			0
191.99	Acid Soluble Chromium , Other (ppm)	0520	163.1	0.2000	190.3	28.40	3.653	3	-0.96	7%	0
191.99	Acid Soluble Chromium , Other (ppm)	0506	188.0	10.00	190.3	28.40	3.653	3	-0.08	1%	0
191.99	Acid Soluble Chromium , Other (ppm)	0519	219.7	0.7600	190.3	28.40	3.653	3	1.04	8%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0482	1.170	0.3400	1.725	0.6523	0.2084	6	-0.76	16%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0035	1.305	0.0700	1.725	0.6523	0.2084	6	-0.57	12%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0389	1.500	0.0000	1.725	0.6523	0.2084	6	-0.31	7%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0368	1.576	0.5128	1.725	0.6523	0.2084	6	-0.20	4%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0524	2.098	0.0374	1.725	0.6523	0.2084	6	0.51	11%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0523	3.685	0.2900	1.725	0.6523	0.2084	6	2.68	57%	0
202.32	Acid Soluble Cobalt , ICP, 2006.03 (ppm)	0423	0.6150	0.0500				1			0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0527	0.6800	0.0200	0.8132	0.1191	0.1085	3	-1.12	8%	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0220	0.8500	0.3000	0.8132	0.1191	0.1085	3	0.31	2%	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0494	0.9096	0.0056	0.8132	0.1191	0.1085	3	0.81	6%	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0515	0.0000	0.0000	0.8132	0.1191	0.1085	3			4
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0515	0.0000	0.0000				0			4
202.99	Acid Soluble Cobalt , Other (ppm)	0519	0.6150	0.0300				1			0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (%)	0043	0.0020	0.0004				1			0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0483	0.0012	0.0003				1			0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0354	0.0000	0.0000				1			4
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0394	0.0002	0.0001				2			0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0521	0.0013	0.0000				2			0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0527	0.0001	0.0000				2			0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0515	0.0004	0.0000				2			0
221.99	Acid Soluble Copper , Other (%)	0389	0.0001	0.0000	0.0005	0.0005	0.0001	4	-0.91	40%	0
221.99	Acid Soluble Copper , Other (%)	0368	0.0002	0.0001	0.0005	0.0005	0.0001	4	-0.80	36%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
221.99	Acid Soluble Copper , Other (%)	0515	0.0009	0.0001	0.0005	0.0005	0.0001	4	0.70	31%	0
221.99	Acid Soluble Copper , Other (%)	0519	0.0010	0.0000	0.0005	0.0005	0.0001	4	1.02	45%	0
241.03	Acid Soluble Iron, AA, 965.09, test portion 2... (%)	0105	0.4248	0.0516				1			0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0096	0.4050	0.0100	0.4341	0.0293	0.0259	9	-0.92	3%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0354	0.4055	0.0370	0.4341	0.0293	0.0259	9	-0.90	3%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0041	0.4150	0.0700	0.4341	0.0293	0.0259	9	-0.60	2%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0035	0.4235	0.0630	0.4341	0.0293	0.0259	9	-0.33	1%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0402	0.4250	0.0100	0.4341	0.0293	0.0259	9	-0.29	1%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0404	0.4450	0.0100	0.4341	0.0293	0.0259	9	0.34	1%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0482	0.4450	0.0100	0.4341	0.0293	0.0259	9	0.34	1%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0472	0.4650	0.0100	0.4341	0.0293	0.0259	9	0.97	4%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0483	0.5175	0.0130	0.4341	0.0293	0.0259	9	2.62	10%	0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0521	0.3572	0.0000				2			0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0423	0.4305	0.0030				2			0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0527	0.4000	0.0200	0.4255	0.0290	0.0165	4	-0.88	3%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0117	0.4030	0.0190	0.4255	0.0290	0.0165	4	-0.77	3%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0494	0.4389	0.0071	0.4255	0.0290	0.0165	4	0.46	2%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0421	0.4600	0.0200	0.4255	0.0290	0.0165	4	1.19	4%	0
241.99	Acid Soluble Iron, Other (%)	0389	0.4510	0.0100				2			0
241.99	Acid Soluble Iron, Other (%)	0524	0.4646	0.0058				2			0
251.30	Acid Soluble Lead , ICP (ppm)	0524	0.2182	0.0263	2.251	1.856	0.3391	4	-1.10	45%	0
251.30	Acid Soluble Lead , ICP (ppm)	0523	1.140	0.1800	2.251	1.856	0.3391	4	-0.60	25%	0
251.30	Acid Soluble Lead , ICP (ppm)	0394	3.710	0.0600	2.251	1.856	0.3391	4	0.79	32%	0
251.30	Acid Soluble Lead , ICP (ppm)	0482	3.935	1.090	2.251	1.856	0.3391	4	0.91	37%	0
251.30	Acid Soluble Lead , ICP (ppm)	0368	0.0000	0.0000	2.251	1.856	0.3391	4			4
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0494	0.1972	0.0405	0.7124	0.6478	0.0829	4	-0.80	36%	0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0527	0.2575	0.0030	0.7124	0.6478	0.0829	4	-0.70	32%	0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0220	0.8000	0.0000	0.7124	0.6478	0.0829	4	0.14	6%	0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0515	1.595	0.2880	0.7124	0.6478	0.0829	4	1.36	62%	0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0515	0.0000	0.0000				0			4
251.99	Acid Soluble Lead , Other (ppm)	0519	0.3750	0.0300				1			0
261.15	Acid Soluble Manganese , AA, 965.09, test por... (%)	0105	0.0046	0.0005				1			0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0041	0.0045	0.0010	10.89	21.77	0.1256	4	-0.50	50%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0354	0.0045	0.0010	10.89	21.77	0.1256	4	-0.50	50%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0035	0.0047	0.0004	10.89	21.77	0.1256	4	-0.50	50%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0096	43.55	0.5000	10.89	21.77	0.1256	4	1.50	150%	0
261.32	Acid Soluble Manganese , ICP, test portion in... (%)	0483	0.0055	0.0001				1			0
261.34	Acid Soluble Manganese , ICP, test portion 20... (%)	0423	0.0039	0.0002				2			0
261.34	Acid Soluble Manganese , ICP, test portion 20... (%)	0521	0.0059	0.0000				2			0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0494	0.0041	0.0002	0.0043	0.0002	0.0002	3	-0.83	2%	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0527	0.0042	0.0002	0.0043	0.0002	0.0002	3	-0.28	1%	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0117	0.0045	0.0001	0.0043	0.0002	0.0002	3	1.11	2%	0
261.99	Acid Soluble Manganese , Other (%)	0389	0.0048	0.0001				2			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
261.99	Acid Soluble Manganese , Other (%)	0524	0.0048	0.0001				2			0
281.30	Acid Soluble Mercury , ICP (ppm)	0394	0.0122	0.0042				2			0
281.30	Acid Soluble Mercury , ICP (ppm)	0527	0.1195	0.0070				2			0
281.30	Acid Soluble Mercury , ICP (ppm)	0515	0.0000	0.0000				2			4
281.99	Acid Soluble Mercury , Other (ppm)	0519	0.0250	0.0100				1			0
289.00	Acid Soluble Molybdenum , AA, test portion in... (ppm)	0105	4.263	0.8850				1			0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0096	2.150	0.1000	3.946	1.370	0.3574	5	-1.14	23%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0433	3.085	0.0510	3.946	1.370	0.3574	5	-0.55	11%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0524	4.046	0.0358	3.946	1.370	0.3574	5	0.06	1%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0521	4.858	0.0000	3.946	1.370	0.3574	5	0.58	12%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0035	5.590	1.600	3.946	1.370	0.3574	5	1.05	21%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0368	1.370	2.740	3.946	1.370	0.3574	5			4
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (ppm)	0394	0.0011	0.0000				1			0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0515	1.848	0.2030	3.948	1.527	0.1685	6	-1.23	27%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0494	3.441	0.1207	3.948	1.527	0.1685	6	-0.30	6%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0037	3.911	0.1140	3.948	1.527	0.1685	6	-0.02	0%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0423	4.185	0.0900	3.948	1.527	0.1685	6	0.14	3%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0527	4.305	0.0830	3.948	1.527	0.1685	6	0.21	5%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0220	6.000	0.4000	3.948	1.527	0.1685	6	1.20	26%	0
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (ppm)	0515	1.581	0.5040				1			0
289.99	Acid Soluble Molybdenum , Other (ppm)	0520	3.090	0.1600	4.200	0.9896	0.4600	3	-1.12	13%	0
289.99	Acid Soluble Molybdenum , Other (ppm)	0519	4.520	0.0400	4.200	0.9896	0.4600	3	0.32	4%	0
289.99	Acid Soluble Molybdenum , Other (ppm)	0506	4.990	1.180	4.200	0.9896	0.4600	3	0.80	9%	0
291.00	Acid Soluble Nickel , AA, test portion as in ... (ppm)	0136	13.00	0.0000				1			0
291.30	Acid Soluble Nickel , ICP (ppm)	0096	7.850	0.1000	11.50	1.551	0.3227	9	-2.17	16%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0394	10.20	0.2000	11.50	1.551	0.3227	9	-0.78	6%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0521	10.75	0.0000	11.50	1.551	0.3227	9	-0.45	3%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0444	11.24	0.2700	11.50	1.551	0.3227	9	-0.16	1%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0482	11.55	0.1000	11.50	1.551	0.3227	9	0.03	0%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0368	12.00	0.9082	11.50	1.551	0.3227	9	0.29	2%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0524	12.36	0.0259	11.50	1.551	0.3227	9	0.51	4%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0035	12.45	0.3000	11.50	1.551	0.3227	9	0.56	4%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0523	23.06	1.000	11.50	1.551	0.3227	9	6.88	50%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0515	8.925	3.408	12.64	1.697	0.9580	7	-1.98	15%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0494	11.93	0.4808	12.64	1.697	0.9580	7	-0.38	3%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0527	12.41	0.3180	12.64	1.697	0.9580	7	-0.13	1%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0117	12.74	0.0500	12.64	1.697	0.9580	7	0.05	0%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0037	12.80	0.3700	12.64	1.697	0.9580	7	0.08	1%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0220	13.35	0.1000	12.64	1.697	0.9580	7	0.38	3%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0105	19.60	1.980	12.64	1.697	0.9580	7	3.71	28%	0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0515	8.592	0.9720				2			0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0230	13.40	0.2000				2			0
291.99	Acid Soluble Nickel , Other (ppm)	0519	12.27	0.0700				1			0

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			Value	Range	Rob Mean	Rob SD	R-bar				
301.30	Acid Soluble Selenium , ICP (ppm)	0524	0.1969	0.0123				1			0
301.30	Acid Soluble Selenium , ICP (ppm)	0368	0.0000	0.0000				1			4
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0527	1.895	0.0310				2			0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0220	2.400	0.8000				2			0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0515	0.0000	0.0000				2			4
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0515	0.0000	0.0000				0			4
301.99	Acid Soluble Selenium , Other (ppm)	0519	0.0100	0.0000				1			0
311.32	Sodium, ICP, 2006.03 test portion (%)	0521	0.2297	0.0000				1			0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0035	0.1745	0.0410	0.1890	0.0126	0.0187	3	-1.15	4%	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0527	0.1950	0.0100	0.1890	0.0126	0.0187	3	0.48	2%	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0423	0.1975	0.0050	0.1890	0.0126	0.0187	3	0.67	2%	0
311.99	Sodium, Other (%)	0482	0.1750	0.0100	0.1932	0.0199	0.0103	3	-0.91	5%	0
311.99	Sodium, Other (%)	0096	0.1900	0.0000	0.1932	0.0199	0.0103	3	-0.16	1%	0
311.99	Sodium, Other (%)	0354	0.2145	0.0210	0.1932	0.0199	0.0103	3	1.07	6%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0043	0.0422	0.0009				1			0
321.03	Acid Soluble Zinc , AA, 965.09, test portion ... (%)	0105	0.0377	0.0015				1			0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0444	0.0345	0.0010	0.0392	0.0020	0.0025	11	-2.16	6%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0035	0.0375	0.0090	0.0392	0.0020	0.0025	11	-0.79	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0041	0.0375	0.0070	0.0392	0.0020	0.0025	11	-0.79	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0354	0.0375	0.0050	0.0392	0.0020	0.0025	11	-0.79	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0230	0.0398	0.0004	0.0392	0.0020	0.0025	11	0.26	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0292	0.0400	0.0000	0.0392	0.0020	0.0025	11	0.35	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0472	0.0400	0.0000	0.0392	0.0020	0.0025	11	0.35	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0482	0.0400	0.0000	0.0392	0.0020	0.0025	11	0.35	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0096	0.0401	0.0008	0.0392	0.0020	0.0025	11	0.40	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0433	0.0407	0.0014	0.0392	0.0020	0.0025	11	0.67	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0483	0.0493	0.0029	0.0392	0.0020	0.0025	11	4.58	13%	0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0423	0.0070	0.0004	0.0174	0.0146	0.0001	3	-0.71	30%	0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0394	0.0110	0.0000	0.0174	0.0146	0.0001	3	-0.44	18%	0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0521	0.0341	0.0000	0.0174	0.0146	0.0001	3	1.14	48%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0494	0.0340	0.0013	0.0388	0.0014	0.0012	8	-3.09	6%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0515	0.0376	0.0037	0.0388	0.0014	0.0012	8	-0.78	2%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0117	0.0382	0.0003	0.0388	0.0014	0.0012	8	-0.40	1%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0037	0.0388	0.0010	0.0388	0.0014	0.0012	8	0.02	0%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0220	0.0390	0.0000	0.0388	0.0014	0.0012	8	0.15	0%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0105	0.0400	0.0030	0.0388	0.0014	0.0012	8	0.79	2%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0421	0.0400	0.0000	0.0388	0.0014	0.0012	8	0.79	2%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0527	0.0400	0.0000	0.0388	0.0014	0.0012	8	0.79	2%	0
321.99	Acid Soluble Zinc , Other (%)	0520	0.0267	0.0000	0.0358	0.0064	0.0001	7	-1.27	13%	0
321.99	Acid Soluble Zinc , Other (%)	0519	0.0300	0.0000	0.0358	0.0064	0.0001	7	-0.81	8%	0
321.99	Acid Soluble Zinc , Other (%)	0515	0.0344	0.0002	0.0358	0.0064	0.0001	7	-0.19	2%	0
321.99	Acid Soluble Zinc , Other (%)	0368	0.0383	0.0004	0.0358	0.0064	0.0001	7	0.36	4%	0
321.99	Acid Soluble Zinc , Other (%)	0389	0.0384	0.0002	0.0358	0.0064	0.0001	7	0.37	4%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS	Threshold	Flag
			Value	Range	Rob Mean	Rob SD	R-bar		Z Score	%RSD	
321.99	Acid Soluble Zinc , Other (%)	0487	0.0400	0.0000	0.0358	0.0064	0.0001	7	0.60	6%	0
321.99	Acid Soluble Zinc , Other (%)	0524	0.0425	0.0000	0.0358	0.0064	0.0001	7	0.95	9%	0
321.99	Acid Soluble Zinc , Other (%)	0027	0.0325	0.0030	0.0358	0.0064	0.0001	7	-0.46	5%	1
325.30	Water Soluble Zinc , ICP (%)	0402	0.0350	0.0100				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. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are included for information only (Grey). An offset lab value with an astrix indicates that the value is lower than the Analyte value less the IA. Method or Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for the purpose of this Proficiency Testing program.