

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 170111

Grade 18-46-0 DAP

Statistical Summary

Analytes: 34

Labs Reporting: 84

Issue Date : 02/28/2017

Analyte Code	Analyte	# 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	Ammoniacal Nitrogen (%)	26	24	18.21	0.2317	18.23		0.2224	0.0567	1.22%		0.1069	2.58%
009	Ammoniacal Plus Nitrate Nitrogen (%)	2	2	18.18	0.2192								
010	Total Nitrogen (18%)	70	67	18.26	0.4221	18.29	0.7043	0.2678	0.0409	1.46%	1.93%	0.1242	2.58%
020	Total Phosphorus as P2O5 (%)	59	57	46.29	1.323	46.39		0.7514	0.1244	1.62%		0.3224	2.25%
030	Citrate Insoluble Phosphorus as P2O5 (%)	3	3	0.0678	0.0209	0.0678		0.0209	0.0151	30.80%		0.0310	6.00%
040	Indirect Available Phosphorus as P2O5 (46%)	4	4	45.25	2.235	45.25	0.9851	2.235	1.397	4.94%	1.09%	0.1930	2.25%
041	Direct Available Phosphorus as P2O5 (46%)	39	38	46.50	0.7054	46.51	1.0077	0.7268	0.1474	1.56%	1.08%	0.3204	2.24%
042	Water Soluble Orthophosphate as P2O5 (%)	1		41.94									
048	Water Soluble Phosphorus as P2O5 (%)	16	15	43.39	1.976	43.58		1.424	0.4595	3.27%		0.2513	2.27%
050	Soluble Potassium as K2O (%)	12	11	0.2258	0.1015	0.2122		0.0758	0.0286	35.72%		0.0220	5.05%
060	Water (Free) (%)	6	5	1.011	0.5091	1.011		0.5091	0.2846	50.37%		0.0401	3.99%
101	Acid Soluble Calcium (%)	15	14	0.2930	0.0844	0.2803		0.0538	0.0180	19.19%		0.0120	4.84%
121	Acid Soluble Magnesium (%)	17	16	0.7266	0.0625	0.7233		0.0631	0.0197	8.72%		0.0219	4.20%
143	Elemental Sulfur (%)	2	2	2.128	0.0601								
145	Sulfate Sulfur, HCl soluble (%)	4	4	2.960	1.041	2.960		1.041	0.6506	35.17%		0.0450	3.40%
148	Total Sulfur (%)	10	10	2.205	0.1060	2.192		0.0840	0.0332	3.83%		0.0750	3.55%
149	Sulfur - HNO3 soluble (%)	3	3	2.264	0.0823	2.264		0.0823	0.0594	3.63%		0.0493	3.54%
151	Acid Soluble Arsenic (ppm)	12	10	2.702	3.197	1.877		0.7523	0.2974	40.09%		0.1620	14.55%
165	Acid Soluble Boron (%)	10	10	0.0137	0.0062	0.0137		0.0070	0.0028	51.34%		0.0021	7.63%
181	Acid Soluble Cadmium (ppm)	22	22	30.05	9.651	29.91		4.061	1.082	13.58%		0.7765	9.59%
190	Water Soluble Chlorine (%)	1		0.5150									
191	Acid Soluble Chromium (ppm)	21	20	213.5	61.38	211.7		26.62	7.440	12.58%		5.941	7.15%
202	Acid Soluble Cobalt (ppm)	13	11	1.364	0.8995	1.228		0.6390	0.2408	52.05%		0.1505	15.51%
221	Acid Soluble Copper (%)	11	10	0.0007	0.0006	0.0007		0.0007	0.0003	95.88%		0.0001	11.97%
241	Acid Soluble Iron (%)	18	18	0.4320	0.0346	0.4314		0.0292	0.0086	6.77%		0.0205	4.54%
251	Acid Soluble Lead (ppm)	11	8	1.037	1.192	0.8232		0.7865	0.3476	95.54%		0.0785	16.47%
261	Acid Soluble Manganese (%)	13	12	0.0046	0.0006	0.0046		0.0005	0.0002	10.58%		0.0003	8.99%
281	Acid Soluble Mercury (ppm)	4	3	0.0522	0.0586	0.0522		0.0586	0.0423	112.20%		0.0071	24.94%
289	Acid Soluble Molybdenum (ppm)	18	17	3.639	1.549	3.721		1.555	0.4716	41.81%		0.3274	13.13%
291	Acid Soluble Nickel (ppm)	20	19	12.71	3.427	12.16		1.530	0.4388	12.58%		0.3918	10.98%
301	Acid Soluble Selenium (ppm)	7	4	1.125	1.200	1.125		1.200	0.7502	106.66%		0.2108	15.71%

Analyte Code	Analyte	# 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
311	Sodium (%)	7	7	0.1966	0.0201	0.1966		0.0228	0.0108	11.58%		0.0124	5.11%
321	Acid Soluble Zinc (%)	32	31	0.0362	0.0083	0.0377		0.0038	0.0009	10.19%		0.0011	6.55%
325	Water Soluble Zinc (%)	1		0.0350									

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Lab Values

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Grade 18-46-0 DAP

Issue Date : 02/28/2017

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001	Ammoniacal Nitrogen (%)	0231	17.64	0.0700	18.23	0.2224	0.1069	24	-2.66	001.10	0
001	Ammoniacal Nitrogen (%)	0520	17.80	0.0100	18.23	0.2224	0.1069	24	-1.94	001.99	0
001	Ammoniacal Nitrogen (%)	0487	17.95	0.3000	18.23	0.2224	0.1069	24	-1.24	001.99	0
001	Ammoniacal Nitrogen (%)	0519	18.00	0.0200	18.23	0.2224	0.1069	24	-1.02	001.99	0
001	Ammoniacal Nitrogen (%)	0513	18.05	0.0600	18.23	0.2224	0.1069	24	-0.79	001.10	0
001	Ammoniacal Nitrogen (%)	0513	18.06	0.0800	18.23	0.2224	0.1069	24	-0.75	001.99	0
001	Ammoniacal Nitrogen (%)	0444	18.07	0.1400	18.23	0.2224	0.1069	24	-0.71	001.10	0
001	Ammoniacal Nitrogen (%)	0177	18.11	0.0833	18.23	0.2224	0.1069	24	-0.52	001.10	0
001	Ammoniacal Nitrogen (%)	0027	18.15	0.2700	18.23	0.2224	0.1069	24	-0.37	001.99	0
001	Ammoniacal Nitrogen (%)	0526	18.18	0.0777	18.23	0.2224	0.1069	24	-0.22	001.10	0
001	Ammoniacal Nitrogen (%)	0486	18.18	0.1200	18.23	0.2224	0.1069	24	-0.21	001.10	0
001	Ammoniacal Nitrogen (%)	0456	18.19	0.0300	18.23	0.2224	0.1069	24	-0.19	001.10	0
001	Ammoniacal Nitrogen (%)	0501	18.25	0.1000	18.23	0.2224	0.1069	24	0.10	001.99	0
001	Ammoniacal Nitrogen (%)	0371	18.30	0.0000	18.23	0.2224	0.1069	24	0.33	001.99	0
001	Ammoniacal Nitrogen (%)	0506	18.30	0.4000	18.23	0.2224	0.1069	24	0.33	001.99	0
001	Ammoniacal Nitrogen (%)	0405	18.34	0.0500	18.23	0.2224	0.1069	24	0.51	001.10	0
001	Ammoniacal Nitrogen (%)	0493	18.35	0.1000	18.23	0.2224	0.1069	24	0.55	001.99	0
001	Ammoniacal Nitrogen (%)	0404	18.41	0.0700	18.23	0.2224	0.1069	24	0.80	001.99	0
001	Ammoniacal Nitrogen (%)	0522	18.42	0.1500	18.23	0.2224	0.1069	24	0.85	001.99	0
001	Ammoniacal Nitrogen (%)	0524	18.42	0.0339	18.23	0.2224	0.1069	24	0.88	001.99	0
001	Ammoniacal Nitrogen (%)	0220	18.43	0.0900	18.23	0.2224	0.1069	24	0.89	001.99	0
001	Ammoniacal Nitrogen (%)	0416	18.47	0.0300	18.23	0.2224	0.1069	24	1.07	001.99	0
001	Ammoniacal Nitrogen (%)	0423	18.50	0.2700	18.23	0.2224	0.1069	24	1.21	001.99	0
001	Ammoniacal Nitrogen (%)	0096	18.62	0.0100	18.23	0.2224	0.1069	24	1.75	001.99	0
001	Ammoniacal Nitrogen (%)	0368	17.47	0.6200	18.23	0.2224	0.1069	24	-3.40	001.99	1
001	Ammoniacal Nitrogen (%)	0394	11.45	0.1000	18.23	0.2224	0.1069	24	-30.47	001.99	2
009	Ammoniacal Plus Nitrate Nitrogen (%)	0518	18.02	0.1600				2		009.99	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0090	18.33	0.1400				2		009.10	0
010	Total Nitrogen (18%)	0521	16.22*	0.0000	18.29	0.2678	0.1242	67	-7.70	010.60	0
010	Total Nitrogen (18%)	0034	17.33*	0.1900	18.29	0.2678	0.1242	67	-3.59	010.60	0
010	Total Nitrogen (18%)	0230	17.60	0.2000	18.29	0.2678	0.1242	67	-2.56	010.60	0
010	Total Nitrogen (18%)	0421	17.73	0.0400	18.29	0.2678	0.1242	67	-2.08	010.60	0
010	Total Nitrogen (18%)	0309	17.81	0.2600	18.29	0.2678	0.1242	67	-1.78	010.11	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010	Total Nitrogen (18%)	0007	17.85	0.1000	18.29	0.2678	0.1242	67	-1.63	010.60	0
010	Total Nitrogen (18%)	0354	17.86	0.0580	18.29	0.2678	0.1242	67	-1.59	010.60	0
010	Total Nitrogen (18%)	0527	17.87	0.1700	18.29	0.2678	0.1242	67	-1.57	010.60	0
010	Total Nitrogen (18%)	0455	17.88	0.0500	18.29	0.2678	0.1242	67	-1.53	010.11	0
010	Total Nitrogen (18%)	0035	17.93	0.1700	18.29	0.2678	0.1242	67	-1.35	010.60	0
010	Total Nitrogen (18%)	0444	17.97	0.1000	18.29	0.2678	0.1242	67	-1.18	010.60	0
010	Total Nitrogen (18%)	0519	18.01	0.0200	18.29	0.2678	0.1242	67	-1.03	010.99	0
010	Total Nitrogen (18%)	0485	18.10	0.5100	18.29	0.2678	0.1242	67	-0.71	010.60	0
010	Total Nitrogen (18%)	0234	18.10	0.0800	18.29	0.2678	0.1242	67	-0.69	010.60	0
010	Total Nitrogen (18%)	0523	18.10	0.0000	18.29	0.2678	0.1242	67	-0.69	010.60	0
010	Total Nitrogen (18%)	0356	18.14	0.0800	18.29	0.2678	0.1242	67	-0.55	010.60	0
010	Total Nitrogen (18%)	0324	18.15	0.1000	18.29	0.2678	0.1242	67	-0.51	010.60	0
010	Total Nitrogen (18%)	0489	18.15	0.1000	18.29	0.2678	0.1242	67	-0.51	010.60	0
010	Total Nitrogen (18%)	0041	18.17	0.0300	18.29	0.2678	0.1242	67	-0.45	010.60	0
010	Total Nitrogen (18%)	0520	18.18	0.2500	18.29	0.2678	0.1242	67	-0.41	010.99	0
010	Total Nitrogen (18%)	0500	18.19	0.0200	18.29	0.2678	0.1242	67	-0.36	010.11	0
010	Total Nitrogen (18%)	0157	18.20	0.0000	18.29	0.2678	0.1242	67	-0.32	010.60	0
010	Total Nitrogen (18%)	0482	18.20	0.2000	18.29	0.2678	0.1242	67	-0.32	010.60	0
010	Total Nitrogen (18%)	0231	18.23	0.0000	18.29	0.2678	0.1242	67	-0.21	010.60	0
010	Total Nitrogen (18%)	0027	18.25	0.3000	18.29	0.2678	0.1242	67	-0.13	010.60	0
010	Total Nitrogen (18%)	0423	18.26	0.0900	18.29	0.2678	0.1242	67	-0.12	010.60	0
010	Total Nitrogen (18%)	0043	18.27	0.0200	18.29	0.2678	0.1242	67	-0.06	010.60	0
010	Total Nitrogen (18%)	0029	18.28	0.0700	18.29	0.2678	0.1242	67	-0.04	010.60	0
010	Total Nitrogen (18%)	0292	18.28	0.0500	18.29	0.2678	0.1242	67	-0.04	010.60	0
010	Total Nitrogen (18%)	0526	18.28	0.3101	18.29	0.2678	0.1242	67	-0.04	010.17	0
010	Total Nitrogen (18%)	0073	18.29	0.1300	18.29	0.2678	0.1242	67	0.00	010.60	0
010	Total Nitrogen (18%)	0291	18.29	0.0100	18.29	0.2678	0.1242	67	0.00	010.60	0
010	Total Nitrogen (18%)	0023	18.29	0.0070	18.29	0.2678	0.1242	67	0.00	010.60	0
010	Total Nitrogen (18%)	0506	18.30	0.4000	18.29	0.2678	0.1242	67	0.05	010.99	0
010	Total Nitrogen (18%)	0501	18.30	0.1000	18.29	0.2678	0.1242	67	0.06	010.60	0
010	Total Nitrogen (18%)	0105	18.31	0.1400	18.29	0.2678	0.1242	67	0.09	010.11	0
010	Total Nitrogen (18%)	0451	18.32	0.3000	18.29	0.2678	0.1242	67	0.13	010.60	0
010	Total Nitrogen (18%)	0211	18.33	0.0900	18.29	0.2678	0.1242	67	0.15	010.17	0
010	Total Nitrogen (18%)	0406	18.33	0.4600	18.29	0.2678	0.1242	67	0.16	010.60	0
010	Total Nitrogen (18%)	0042	18.35	0.0400	18.29	0.2678	0.1242	67	0.24	010.60	0
010	Total Nitrogen (18%)	0457	18.35	0.1000	18.29	0.2678	0.1242	67	0.24	010.60	0
010	Total Nitrogen (18%)	0525	18.35	0.0510	18.29	0.2678	0.1242	67	0.25	010.60	0
010	Total Nitrogen (18%)	0095	18.37	0.0900	18.29	0.2678	0.1242	67	0.29	010.60	0
010	Total Nitrogen (18%)	0405	18.37	0.0400	18.29	0.2678	0.1242	67	0.31	010.60	0
010	Total Nitrogen (18%)	0105	18.39	0.0570	18.29	0.2678	0.1242	67	0.37	010.60	0
010	Total Nitrogen (18%)	0377	18.39	0.2000	18.29	0.2678	0.1242	67	0.39	010.60	0
010	Total Nitrogen (18%)	0389	18.40	0.2000	18.29	0.2678	0.1242	67	0.43	010.60	0
010	Total Nitrogen (18%)	0404	18.42	0.0900	18.29	0.2678	0.1242	67	0.48	010.11	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010	Total Nitrogen (18%)	0086	18.44	0.1460	18.29	0.2678	0.1242	67	0.58	010.60	0
010	Total Nitrogen (18%)	0185	18.45	0.0900	18.29	0.2678	0.1242	67	0.59	010.12	0
010	Total Nitrogen (18%)	0220	18.45	0.0400	18.29	0.2678	0.1242	67	0.61	010.99	0
010	Total Nitrogen (18%)	0136	18.46	0.0300	18.29	0.2678	0.1242	67	0.63	010.60	0
010	Total Nitrogen (18%)	0494	18.46	0.1600	18.29	0.2678	0.1242	67	0.65	010.60	0
010	Total Nitrogen (18%)	0472	18.47	0.0500	18.29	0.2678	0.1242	67	0.67	010.60	0
010	Total Nitrogen (18%)	0040	18.50	0.2000	18.29	0.2678	0.1242	67	0.80	010.60	0
010	Total Nitrogen (18%)	0402	18.51	0.0300	18.29	0.2678	0.1242	67	0.82	010.60	0
010	Total Nitrogen (18%)	0025	18.55	0.0100	18.29	0.2678	0.1242	67	0.97	010.60	0
010	Total Nitrogen (18%)	0131	18.57	0.6810	18.29	0.2678	0.1242	67	1.05	010.60	0
010	Total Nitrogen (18%)	0422	18.57	0.0200	18.29	0.2678	0.1242	67	1.06	010.60	0
010	Total Nitrogen (18%)	0055	18.58	0.0200	18.29	0.2678	0.1242	67	1.10	010.60	0
010	Total Nitrogen (18%)	0096	18.60	0.0200	18.29	0.2678	0.1242	67	1.17	010.60	0
010	Total Nitrogen (18%)	0452	18.66	0.0200	18.29	0.2678	0.1242	67	1.40	010.60	0
010	Total Nitrogen (18%)	0486	18.69	0.2800	18.29	0.2678	0.1242	67	1.51	010.60	0
010	Total Nitrogen (18%)	0516	18.70	0.2000	18.29	0.2678	0.1242	67	1.55	010.60	0
010	Total Nitrogen (18%)	0483	18.70	0.1250	18.29	0.2678	0.1242	67	1.56	010.60	0
010	Total Nitrogen (18%)	0524	18.75	0.0576	18.29	0.2678	0.1242	67	1.72	010.99	0
010	Total Nitrogen (18%)	0443	19.95	0.0700	18.29	0.2678	0.1242	67	6.20	010.60	0
010	Total Nitrogen (18%)	0307	18.09	1.612	18.29	0.2678	0.1242	67	-0.72	010.60	1
010	Total Nitrogen (18%)	0368	18.38	1.182	18.29	0.2678	0.1242	67	0.35	010.60	1
010	Total Nitrogen (18%)	0114	9.285*	0.0100	18.29	0.2678	0.1242	67	-33.61	010.11	2
020	Total Phosphorus as P2O5 (%)	0157	42.00	1.000	46.39	0.7514	0.3224	57	-5.84	020.50	0
020	Total Phosphorus as P2O5 (%)	0394	42.15	0.1000	46.39	0.7514	0.3224	57	-5.64	020.20	0
020	Total Phosphorus as P2O5 (%)	0433	42.80	0.3900	46.39	0.7514	0.3224	57	-4.78	020.50	0
020	Total Phosphorus as P2O5 (%)	0472	44.18	0.0900	46.39	0.7514	0.3224	57	-2.94	020.50	0
020	Total Phosphorus as P2O5 (%)	0027	44.87	1.198	46.39	0.7514	0.3224	57	-2.02	020.20	0
020	Total Phosphorus as P2O5 (%)	0516	45.31	0.2200	46.39	0.7514	0.3224	57	-1.43	020.20	0
020	Total Phosphorus as P2O5 (%)	0042	45.44	0.2000	46.39	0.7514	0.3224	57	-1.26	020.40	0
020	Total Phosphorus as P2O5 (%)	0455	45.53	0.0500	46.39	0.7514	0.3224	57	-1.15	020.99	0
020	Total Phosphorus as P2O5 (%)	0234	45.60	0.3200	46.39	0.7514	0.3224	57	-1.05	020.50	0
020	Total Phosphorus as P2O5 (%)	0520	45.71	0.0200	46.39	0.7514	0.3224	57	-0.90	020.99	0
020	Total Phosphorus as P2O5 (%)	0456	45.73	0.0500	46.39	0.7514	0.3224	57	-0.88	020.40	0
020	Total Phosphorus as P2O5 (%)	0482	45.75	0.9000	46.39	0.7514	0.3224	57	-0.85	020.50	0
020	Total Phosphorus as P2O5 (%)	0356	45.76	0.0200	46.39	0.7514	0.3224	57	-0.83	020.20	0
020	Total Phosphorus as P2O5 (%)	0389	45.92	0.1600	46.39	0.7514	0.3224	57	-0.62	020.50	0
020	Total Phosphorus as P2O5 (%)	0519	45.94	0.0700	46.39	0.7514	0.3224	57	-0.60	020.99	0
020	Total Phosphorus as P2O5 (%)	0402	45.96	1.150	46.39	0.7514	0.3224	57	-0.58	020.50	0
020	Total Phosphorus as P2O5 (%)	0368	46.06	0.0649	46.39	0.7514	0.3224	57	-0.44	020.50	0
020	Total Phosphorus as P2O5 (%)	0506	46.10	0.6000	46.39	0.7514	0.3224	57	-0.38	020.20	0
020	Total Phosphorus as P2O5 (%)	0521	46.11	0.0000	46.39	0.7514	0.3224	57	-0.36	020.50	0
020	Total Phosphorus as P2O5 (%)	0230	46.15	0.3000	46.39	0.7514	0.3224	57	-0.32	020.20	0
020	Total Phosphorus as P2O5 (%)	0157	46.20	0.2000	46.39	0.7514	0.3224	57	-0.25	020.10	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
020	Total Phosphorus as P2O5 (%)	0421	46.20	0.5400	46.39	0.7514	0.3224	57	-0.25	020.50	0
020	Total Phosphorus as P2O5 (%)	0486	46.28	0.7100	46.39	0.7514	0.3224	57	-0.15	020.40	0
020	Total Phosphorus as P2O5 (%)	0405	46.28	0.1230	46.39	0.7514	0.3224	57	-0.14	020.20	0
020	Total Phosphorus as P2O5 (%)	0457	46.31	0.1200	46.39	0.7514	0.3224	57	-0.10	020.20	0
020	Total Phosphorus as P2O5 (%)	0500	46.32	0.0400	46.39	0.7514	0.3224	57	-0.09	020.10	0
020	Total Phosphorus as P2O5 (%)	0489	46.33	0.0600	46.39	0.7514	0.3224	57	-0.08	020.20	0
020	Total Phosphorus as P2O5 (%)	0513	46.35	0.1000	46.39	0.7514	0.3224	57	-0.05	020.99	0
020	Total Phosphorus as P2O5 (%)	0526	46.38	0.0378	46.39	0.7514	0.3224	57	-0.01	020.99	0
020	Total Phosphorus as P2O5 (%)	0371	46.40	0.2000	46.39	0.7514	0.3224	57	0.02	020.20	0
020	Total Phosphorus as P2O5 (%)	0309	46.40	0.2400	46.39	0.7514	0.3224	57	0.02	020.20	0
020	Total Phosphorus as P2O5 (%)	0404	46.44	0.2300	46.39	0.7514	0.3224	57	0.06	020.40	0
020	Total Phosphorus as P2O5 (%)	0105	46.45	0.1600	46.39	0.7514	0.3224	57	0.08	020.40	0
020	Total Phosphorus as P2O5 (%)	0444	46.55	0.7500	46.39	0.7514	0.3224	57	0.21	020.10	0
020	Total Phosphorus as P2O5 (%)	0096	46.60	0.2200	46.39	0.7514	0.3224	57	0.28	020.40	0
020	Total Phosphorus as P2O5 (%)	0231	46.66	0.2100	46.39	0.7514	0.3224	57	0.36	020.20	0
020	Total Phosphorus as P2O5 (%)	0487	46.70	0.0000	46.39	0.7514	0.3224	57	0.42	020.99	0
020	Total Phosphorus as P2O5 (%)	0090	46.71	0.3100	46.39	0.7514	0.3224	57	0.42	020.10	0
020	Total Phosphorus as P2O5 (%)	0220	46.71	0.0200	46.39	0.7514	0.3224	57	0.43	020.20	0
020	Total Phosphorus as P2O5 (%)	0493	46.75	0.1000	46.39	0.7514	0.3224	57	0.48	020.10	0
020	Total Phosphorus as P2O5 (%)	0493	46.75	0.1000	46.39	0.7514	0.3224	57	0.48	020.20	0
020	Total Phosphorus as P2O5 (%)	0522	46.78	0.0800	46.39	0.7514	0.3224	57	0.52	020.20	0
020	Total Phosphorus as P2O5 (%)	0292	46.86	0.0500	46.39	0.7514	0.3224	57	0.62	020.20	0
020	Total Phosphorus as P2O5 (%)	0416	46.88	0.0200	46.39	0.7514	0.3224	57	0.66	020.20	0
020	Total Phosphorus as P2O5 (%)	0523	46.90	0.0000	46.39	0.7514	0.3224	57	0.68	020.50	0
020	Total Phosphorus as P2O5 (%)	0527	46.97	0.3700	46.39	0.7514	0.3224	57	0.77	020.50	0
020	Total Phosphorus as P2O5 (%)	0211	46.99	0.0800	46.39	0.7514	0.3224	57	0.80	020.10	0
020	Total Phosphorus as P2O5 (%)	0105	47.12	0.0700	46.39	0.7514	0.3224	57	0.97	020.10	0
020	Total Phosphorus as P2O5 (%)	0035	47.13	0.4700	46.39	0.7514	0.3224	57	0.98	020.40	0
020	Total Phosphorus as P2O5 (%)	0025	47.13	0.5000	46.39	0.7514	0.3224	57	0.99	020.50	0
020	Total Phosphorus as P2O5 (%)	0451	47.21	0.4300	46.39	0.7514	0.3224	57	1.09	020.50	0
020	Total Phosphorus as P2O5 (%)	0423	47.46	0.8000	46.39	0.7514	0.3224	57	1.43	020.50	0
020	Total Phosphorus as P2O5 (%)	0324	47.60	0.4000	46.39	0.7514	0.3224	57	1.61	020.20	0
020	Total Phosphorus as P2O5 (%)	0524	47.68	0.6744	46.39	0.7514	0.3224	57	1.72	020.50	0
020	Total Phosphorus as P2O5 (%)	0443	47.78	1.180	46.39	0.7514	0.3224	57	1.85	020.99	0
020	Total Phosphorus as P2O5 (%)	0406	48.07	0.0200	46.39	0.7514	0.3224	57	2.24	020.20	0
020	Total Phosphorus as P2O5 (%)	0422	51.02	1.860	46.39	0.7514	0.3224	57	6.17	020.50	0
020	Total Phosphorus as P2O5 (%)	0501	50.32	2.887	46.39	0.7514	0.3224	57	5.23	020.50	1
020	Total Phosphorus as P2O5 (%)	0483	51.44	2.520	46.39	0.7514	0.3224	57	6.72	020.50	1
030	Citrate Insoluble Phosphorus as P2O5 (%)	0405	0.0485	0.0030	0.0678	0.0209	0.0310	3	-0.93	030.20	0
030	Citrate Insoluble Phosphorus as P2O5 (%)	0404	0.0650	0.0100	0.0678	0.0209	0.0310	3	-0.14	030.40	0
030	Citrate Insoluble Phosphorus as P2O5 (%)	0096	0.0900	0.0800	0.0678	0.0209	0.0310	3	1.06	030.40	0
040	Indirect Available Phosphorus as P2O5 (46%)	0394	41.91*	0.1260	45.25	2.235	0.1930	4	-1.50	040.99	0
040	Indirect Available Phosphorus as P2O5 (46%)	0405	46.23	0.1260	45.25	2.235	0.1930	4	0.44	040.20	0

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040	Indirect Available Phosphorus as P2O5 (46%)	0404	46.37	0.2200	45.25	2.235	0.1930	4	0.50	040.40	0
040	Indirect Available Phosphorus as P2O5 (46%)	0096	46.51	0.3000	45.25	2.235	0.1930	4	0.56	040.40	0
041	Direct Available Phosphorus as P2O5 (46%)	0423	44.73*	0.3400	46.51	0.7268	0.3204	38	-2.46	041.51	0
041	Direct Available Phosphorus as P2O5 (46%)	0368	45.36*	1.135	46.51	0.7268	0.3204	38	-1.59	041.50	0
041	Direct Available Phosphorus as P2O5 (46%)	0027	45.40*	0.2000	46.51	0.7268	0.3204	38	-1.53	041.20	0
041	Direct Available Phosphorus as P2O5 (46%)	0040	45.65	0.5000	46.51	0.7268	0.3204	38	-1.19	041.51	0
041	Direct Available Phosphorus as P2O5 (46%)	0472	45.66	0.0900	46.51	0.7268	0.3204	38	-1.18	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0029	45.73	0.6800	46.51	0.7268	0.3204	38	-1.08	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0041	45.87	1.360	46.51	0.7268	0.3204	38	-0.89	041.10	0
041	Direct Available Phosphorus as P2O5 (46%)	0519	45.91	0.0100	46.51	0.7268	0.3204	38	-0.84	041.99	0
041	Direct Available Phosphorus as P2O5 (46%)	0117	46.01	0.1100	46.51	0.7268	0.3204	38	-0.70	041.51	0
041	Direct Available Phosphorus as P2O5 (46%)	0522	46.11	0.3100	46.51	0.7268	0.3204	38	-0.56	041.21	0
041	Direct Available Phosphorus as P2O5 (46%)	0518	46.15	0.1000	46.51	0.7268	0.3204	38	-0.50	041.99	0
041	Direct Available Phosphorus as P2O5 (46%)	0526	46.18	0.0889	46.51	0.7268	0.3204	38	-0.47	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0513	46.28	0.1300	46.51	0.7268	0.3204	38	-0.33	041.11	0
041	Direct Available Phosphorus as P2O5 (46%)	0522	46.29	0.2600	46.51	0.7268	0.3204	38	-0.31	041.11	0
041	Direct Available Phosphorus as P2O5 (46%)	0037	46.38	0.2900	46.51	0.7268	0.3204	38	-0.19	041.51	0
041	Direct Available Phosphorus as P2O5 (46%)	0494	46.40	0.0300	46.51	0.7268	0.3204	38	-0.16	041.51	0
041	Direct Available Phosphorus as P2O5 (46%)	0043	46.41	0.1200	46.51	0.7268	0.3204	38	-0.14	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0230	46.45	1.300	46.51	0.7268	0.3204	38	-0.09	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0377	46.52	0.2400	46.51	0.7268	0.3204	38	0.01	041.51	0
041	Direct Available Phosphorus as P2O5 (46%)	0486	46.54	0.3400	46.51	0.7268	0.3204	38	0.04	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0023	46.55	0.0700	46.51	0.7268	0.3204	38	0.04	041.51	0
041	Direct Available Phosphorus as P2O5 (46%)	0231	46.55	0.0900	46.51	0.7268	0.3204	38	0.04	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0073	46.55	0.2200	46.51	0.7268	0.3204	38	0.05	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0105	46.56	0.0900	46.51	0.7268	0.3204	38	0.06	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0055	46.58	0.2100	46.51	0.7268	0.3204	38	0.08	041.10	0
041	Direct Available Phosphorus as P2O5 (46%)	0040	46.70	0.0000	46.51	0.7268	0.3204	38	0.26	041.10	0
041	Direct Available Phosphorus as P2O5 (46%)	0291	46.82	0.0100	46.51	0.7268	0.3204	38	0.41	041.50	0
041	Direct Available Phosphorus as P2O5 (46%)	0220	46.91	0.0300	46.51	0.7268	0.3204	38	0.54	041.31	0
041	Direct Available Phosphorus as P2O5 (46%)	0354	46.95	0.0130	46.51	0.7268	0.3204	38	0.60	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0494	47.12	0.3500	46.51	0.7268	0.3204	38	0.83	041.10	0
041	Direct Available Phosphorus as P2O5 (46%)	0131	47.22	0.6700	46.51	0.7268	0.3204	38	0.96	041.40	0
041	Direct Available Phosphorus as P2O5 (46%)	0136	47.23	0.6200	46.51	0.7268	0.3204	38	0.98	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0105	47.25	0.0700	46.51	0.7268	0.3204	38	1.01	041.11	0
041	Direct Available Phosphorus as P2O5 (46%)	0055	47.54	0.7900	46.51	0.7268	0.3204	38	1.40	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0485	47.54	0.1000	46.51	0.7268	0.3204	38	1.41	041.11	0
041	Direct Available Phosphorus as P2O5 (46%)	0117	47.55	0.1000	46.51	0.7268	0.3204	38	1.42	041.11	0
041	Direct Available Phosphorus as P2O5 (46%)	0452	47.69	0.1000	46.51	0.7268	0.3204	38	1.62	041.50	0
041	Direct Available Phosphorus as P2O5 (46%)	0034	47.93	1.007	46.51	0.7268	0.3204	38	1.95	041.60	0
041	Direct Available Phosphorus as P2O5 (46%)	0007	47.05	1.700	46.51	0.7268	0.3204	38	0.74	041.50	1
042	Water Soluble Orthophosphate as P2O5 (%)	0519	41.94	0.0800				1		042.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0394	37.80	0.0000	43.58	1.424	0.2513	15	-4.06	048.20	0

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048	Water Soluble Phosphorus as P2O5 (%)	0520	41.93	0.0600	43.58	1.424	0.2513	15	-1.16	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0518	42.05	0.3000	43.58	1.424	0.2513	15	-1.07	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0526	42.15	0.1162	43.58	1.424	0.2513	15	-1.00	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0309	42.78	0.1600	43.58	1.424	0.2513	15	-0.56	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0231	43.68	0.0000	43.58	1.424	0.2513	15	0.07	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0522	43.77	0.4200	43.58	1.424	0.2513	15	0.13	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0405	43.81	0.0950	43.58	1.424	0.2513	15	0.16	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0025	43.98	0.1900	43.58	1.424	0.2513	15	0.28	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0513	44.08	0.4300	43.58	1.424	0.2513	15	0.35	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0444	44.19	0.1800	43.58	1.424	0.2513	15	0.43	048.10	0
048	Water Soluble Phosphorus as P2O5 (%)	0096	44.25	0.0200	43.58	1.424	0.2513	15	0.47	048.40	0
048	Water Soluble Phosphorus as P2O5 (%)	0220	44.63	0.0200	43.58	1.424	0.2513	15	0.74	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0368	45.25	1.478	43.58	1.424	0.2513	15	1.17	048.50	0
048	Water Soluble Phosphorus as P2O5 (%)	0230	46.55	0.3000	43.58	1.424	0.2513	15	2.09	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0501	44.52	4.722	43.58	1.424	0.2513	15	0.66	048.50	1
050	Soluble Potassium as K2O (%)	0292	0.0900	0.0000	0.2122	0.0758	0.0220	11	-1.61	050.50	0
050	Soluble Potassium as K2O (%)	0482	0.1650	0.0100	0.2122	0.0758	0.0220	11	-0.62	050.99	0
050	Soluble Potassium as K2O (%)	0096	0.1750	0.0100	0.2122	0.0758	0.0220	11	-0.49	050.99	0
050	Soluble Potassium as K2O (%)	0389	0.1800	0.0000	0.2122	0.0758	0.0220	11	-0.42	050.99	0
050	Soluble Potassium as K2O (%)	0524	0.1910	0.0037	0.2122	0.0758	0.0220	11	-0.28	050.99	0
050	Soluble Potassium as K2O (%)	0521	0.2087	0.0000	0.2122	0.0758	0.0220	11	-0.05	050.99	0
050	Soluble Potassium as K2O (%)	0354	0.2090	0.0080	0.2122	0.0758	0.0220	11	-0.04	050.52	0
050	Soluble Potassium as K2O (%)	0527	0.2150	0.0100	0.2122	0.0758	0.0220	11	0.04	050.99	0
050	Soluble Potassium as K2O (%)	0494	0.2400	0.1400	0.2122	0.0758	0.0220	11	0.37	050.52	0
050	Soluble Potassium as K2O (%)	0483	0.3350	0.0300	0.2122	0.0758	0.0220	11	1.62	050.51	0
050	Soluble Potassium as K2O (%)	0423	0.4750	0.0300	0.2122	0.0758	0.0220	11	3.47	050.52	0
050	Soluble Potassium as K2O (%)	0114	47.78	0.2500	0.2122	0.0758	0.0220	11	627.57	050.00	2
060	Water (Free) (%)	0007	0.6250	0.0300	1.011	0.5091	0.0401	5	-0.66	060.00	0
060	Water (Free) (%)	0456	0.6600	0.0200	1.011	0.5091	0.0401	5	-0.60	060.00	0
060	Water (Free) (%)	0096	0.9250	0.0500	1.011	0.5091	0.0401	5	-0.15	060.00	0
060	Water (Free) (%)	0416	0.9644	0.0007	1.011	0.5091	0.0401	5	-0.08	060.00	0
060	Water (Free) (%)	0513	1.880	0.1000	1.011	0.5091	0.0401	5	1.49	060.30	0
060	Water (Free) (%)	0055	8.750	0.3000	1.011	0.5091	0.0401	5	13.27	060.99	1
101	Acid Soluble Calcium (%)	0105	0.1925	0.0033	0.2803	0.0538	0.0120	14	-1.63	101.03	0
101	Acid Soluble Calcium (%)	0472	0.2000	0.0000	0.2803	0.0538	0.0120	14	-1.49	101.30	0
101	Acid Soluble Calcium (%)	0035	0.2470	0.0180	0.2803	0.0538	0.0120	14	-0.62	101.30	0
101	Acid Soluble Calcium (%)	0494	0.2563	0.0110	0.2803	0.0538	0.0120	14	-0.45	101.33	0
101	Acid Soluble Calcium (%)	0482	0.2650	0.0100	0.2803	0.0538	0.0120	14	-0.28	101.30	0
101	Acid Soluble Calcium (%)	0096	0.2680	0.0120	0.2803	0.0538	0.0120	14	-0.23	101.30	0
101	Acid Soluble Calcium (%)	0117	0.2706	0.0009	0.2803	0.0538	0.0120	14	-0.18	101.33	0
101	Acid Soluble Calcium (%)	0354	0.2895	0.0350	0.2803	0.0538	0.0120	14	0.17	101.30	0
101	Acid Soluble Calcium (%)	0389	0.2900	0.0200	0.2803	0.0538	0.0120	14	0.18	101.99	0
101	Acid Soluble Calcium (%)	0421	0.3002	0.0144	0.2803	0.0538	0.0120	14	0.37	101.33	0

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101	Acid Soluble Calcium (%)	0404	0.3050	0.0100	0.2803	0.0538	0.0120	14	0.46	101.30	0
101	Acid Soluble Calcium (%)	0527	0.3250	0.0100	0.2803	0.0538	0.0120	14	0.83	101.33	0
101	Acid Soluble Calcium (%)	0521	0.3469	0.0000	0.2803	0.0538	0.0120	14	1.24	101.32	0
101	Acid Soluble Calcium (%)	0483	0.5465	0.0230	0.2803	0.0538	0.0120	14	4.95	101.30	0
101	Acid Soluble Calcium (%)	0041	0.2750	0.0700	0.2803	0.0538	0.0120	14	-0.10	101.30	1
121	Acid Soluble Magnesium (%)	0105	0.6495	0.0402	0.7233	0.0631	0.0219	16	-1.17	121.03	0
121	Acid Soluble Magnesium (%)	0354	0.6555	0.0510	0.7233	0.0631	0.0219	16	-1.07	121.30	0
121	Acid Soluble Magnesium (%)	0494	0.6577	0.0183	0.7233	0.0631	0.0219	16	-1.04	121.33	0
121	Acid Soluble Magnesium (%)	0035	0.6695	0.0850	0.7233	0.0631	0.0219	16	-0.85	121.30	0
121	Acid Soluble Magnesium (%)	0096	0.6750	0.0000	0.7233	0.0631	0.0219	16	-0.76	121.30	0
121	Acid Soluble Magnesium (%)	0527	0.6800	0.0200	0.7233	0.0631	0.0219	16	-0.69	121.33	0
121	Acid Soluble Magnesium (%)	0482	0.7150	0.0500	0.7233	0.0631	0.0219	16	-0.13	121.30	0
121	Acid Soluble Magnesium (%)	0117	0.7196	0.0073	0.7233	0.0631	0.0219	16	-0.06	121.33	0
121	Acid Soluble Magnesium (%)	0389	0.7300	0.0000	0.7233	0.0631	0.0219	16	0.11	121.99	0
121	Acid Soluble Magnesium (%)	0423	0.7345	0.0170	0.7233	0.0631	0.0219	16	0.18	121.32	0
121	Acid Soluble Magnesium (%)	0521	0.7454	0.0000	0.7233	0.0631	0.0219	16	0.35	121.32	0
121	Acid Soluble Magnesium (%)	0404	0.7600	0.0200	0.7233	0.0631	0.0219	16	0.58	121.32	0
121	Acid Soluble Magnesium (%)	0421	0.7630	0.0181	0.7233	0.0631	0.0219	16	0.63	121.33	0
121	Acid Soluble Magnesium (%)	0524	0.7818	0.0098	0.7233	0.0631	0.0219	16	0.93	121.99	0
121	Acid Soluble Magnesium (%)	0472	0.8250	0.0100	0.7233	0.0631	0.0219	16	1.61	121.30	0
121	Acid Soluble Magnesium (%)	0483	0.8645	0.0030	0.7233	0.0631	0.0219	16	2.24	121.30	0
121	Acid Soluble Magnesium (%)	0041	0.7100	0.1200	0.7233	0.0631	0.0219	16	-0.21	121.30	1
143	Elemental Sulfur (%)	0389	2.085	0.0100				2		143.99	0
143	Elemental Sulfur (%)	0472	2.170	0.0200				2		143.99	0
145	Sulfate Sulfur, HCl soluble (%)	0522	2.320	0.0200	2.960	1.041	0.0450	4	-0.61	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0405	2.330	0.0200	2.960	1.041	0.0450	4	-0.61	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0404	2.690	0.0600	2.960	1.041	0.0450	4	-0.26	145.99	0
145	Sulfate Sulfur, HCl soluble (%)	0394	4.500	0.0800	2.960	1.041	0.0450	4	1.48	145.99	0
148	Total Sulfur (%)	0096	2.085	0.0700	2.192	0.0840	0.0750	10	-1.18	148.99	0
148	Total Sulfur (%)	0494	2.111	0.0105	2.192	0.0840	0.0750	10	-0.89	148.07	0
148	Total Sulfur (%)	0527	2.125	0.1500	2.192	0.0840	0.0750	10	-0.74	148.07	0
148	Total Sulfur (%)	0354	2.161	0.1600	2.192	0.0840	0.0750	10	-0.34	148.99	0
148	Total Sulfur (%)	0292	2.180	0.0000	2.192	0.0840	0.0750	10	-0.13	148.07	0
148	Total Sulfur (%)	0117	2.211	0.0190	2.192	0.0840	0.0750	10	0.21	148.07	0
148	Total Sulfur (%)	0421	2.215	0.1100	2.192	0.0840	0.0750	10	0.26	148.07	0
148	Total Sulfur (%)	0482	2.230	0.1000	2.192	0.0840	0.0750	10	0.43	148.99	0
148	Total Sulfur (%)	0105	2.280	0.0200	2.192	0.0840	0.0750	10	0.98	148.01	0
148	Total Sulfur (%)	0483	2.455	0.1100	2.192	0.0840	0.0750	10	2.92	148.07	0
149	Sulfur - HNO3 soluble (%)	0521	2.177	0.0000	2.264	0.0823	0.0493	3	-1.06	149.04	0
149	Sulfur - HNO3 soluble (%)	0524	2.274	0.0080	2.264	0.0823	0.0493	3	0.13	149.04	0
149	Sulfur - HNO3 soluble (%)	0423	2.340	0.1400	2.264	0.0823	0.0493	3	0.93	149.04	0
151	Acid Soluble Arsenic (ppm)	0515	0.3771	0.1584	1.877	0.7523	0.1620	10	-1.99	151.33	0
151	Acid Soluble Arsenic (ppm)	0096	1.250	0.1000	1.877	0.7523	0.1620	10	-0.83	151.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
151	Acid Soluble Arsenic (ppm)	0136	1.450	0.1000	1.877	0.7523	0.1620	10	-0.57	151.00	0
151	Acid Soluble Arsenic (ppm)	0520	1.594	0.0060	1.877	0.7523	0.1620	10	-0.38	151.99	0
151	Acid Soluble Arsenic (ppm)	0220	1.750	0.5000	1.877	0.7523	0.1620	10	-0.17	151.33	0
151	Acid Soluble Arsenic (ppm)	0519	1.930	0.1200	1.877	0.7523	0.1620	10	0.07	151.99	0
151	Acid Soluble Arsenic (ppm)	0527	2.120	0.0400	1.877	0.7523	0.1620	10	0.32	151.33	0
151	Acid Soluble Arsenic (ppm)	0494	2.414	0.1060	1.877	0.7523	0.1620	10	0.71	151.33	0
151	Acid Soluble Arsenic (ppm)	0523	2.505	0.2700	1.877	0.7523	0.1620	10	0.84	151.30	0
151	Acid Soluble Arsenic (ppm)	0394	11.63	0.2200	1.877	0.7523	0.1620	10	12.96	151.30	0
151	Acid Soluble Arsenic (ppm)	0515	0.0000	0.0000	1.877	0.7523	0.1620	10		151.34	4
151	Acid Soluble Arsenic (ppm)	0368	0.4229	0.8458	1.877	0.7523	0.1620	10		151.30	4
165	Acid Soluble Boron (%)	0421	0.0080	0.0060	0.0137	0.0070	0.0021	10	-0.75	165.99	0
165	Acid Soluble Boron (%)	0524	0.0082	0.0000	0.0137	0.0070	0.0021	10	-0.72	165.99	0
165	Acid Soluble Boron (%)	0423	0.0086	0.0002	0.0137	0.0070	0.0021	10	-0.67	165.99	0
165	Acid Soluble Boron (%)	0521	0.0087	0.0000	0.0137	0.0070	0.0021	10	-0.66	165.30	0
165	Acid Soluble Boron (%)	0472	0.0100	0.0000	0.0137	0.0070	0.0021	10	-0.49	165.99	0
165	Acid Soluble Boron (%)	0482	0.0100	0.0000	0.0137	0.0070	0.0021	10	-0.49	165.99	0
165	Acid Soluble Boron (%)	0389	0.0202	0.0005	0.0137	0.0070	0.0021	10	0.86	165.30	0
165	Acid Soluble Boron (%)	0354	0.0205	0.0050	0.0137	0.0070	0.0021	10	0.90	165.30	0
165	Acid Soluble Boron (%)	0483	0.0206	0.0053	0.0137	0.0070	0.0021	10	0.91	165.99	0
165	Acid Soluble Boron (%)	0527	0.0220	0.0040	0.0137	0.0070	0.0021	10	1.10	165.99	0
181	Acid Soluble Cadmium (ppm)	0394	2.480	0.0200	29.91	4.061	0.7765	22	-6.76	181.30	0
181	Acid Soluble Cadmium (ppm)	0520	22.76	0.0800	29.91	4.061	0.7765	22	-1.76	181.99	0
181	Acid Soluble Cadmium (ppm)	0515	25.24	0.2800	29.91	4.061	0.7765	22	-1.15	181.34	0
181	Acid Soluble Cadmium (ppm)	0515	26.28	2.116	29.91	4.061	0.7765	22	-0.89	181.33	0
181	Acid Soluble Cadmium (ppm)	0368	26.86	2.801	29.91	4.061	0.7765	22	-0.75	181.30	0
181	Acid Soluble Cadmium (ppm)	0444	27.19	0.0700	29.91	4.061	0.7765	22	-0.67	181.30	0
181	Acid Soluble Cadmium (ppm)	0487	27.50	0.6000	29.91	4.061	0.7765	22	-0.59	181.99	0
181	Acid Soluble Cadmium (ppm)	0035	28.00	2.600	29.91	4.061	0.7765	22	-0.47	181.30	0
181	Acid Soluble Cadmium (ppm)	0096	28.95	0.9000	29.91	4.061	0.7765	22	-0.24	181.30	0
181	Acid Soluble Cadmium (ppm)	0494	29.19	1.162	29.91	4.061	0.7765	22	-0.18	181.33	0
181	Acid Soluble Cadmium (ppm)	0482	30.50	0.4000	29.91	4.061	0.7765	22	0.14	181.30	0
181	Acid Soluble Cadmium (ppm)	0037	30.61	0.7140	29.91	4.061	0.7765	22	0.17	181.33	0
181	Acid Soluble Cadmium (ppm)	0230	31.25	0.3000	29.91	4.061	0.7765	22	0.33	181.34	0
181	Acid Soluble Cadmium (ppm)	0136	31.40	0.2000	29.91	4.061	0.7765	22	0.37	181.00	0
181	Acid Soluble Cadmium (ppm)	0117	31.45	0.2500	29.91	4.061	0.7765	22	0.38	181.33	0
181	Acid Soluble Cadmium (ppm)	0220	31.50	1.000	29.91	4.061	0.7765	22	0.39	181.33	0
181	Acid Soluble Cadmium (ppm)	0389	31.60	0.2000	29.91	4.061	0.7765	22	0.42	181.30	0
181	Acid Soluble Cadmium (ppm)	0519	32.62	0.0800	29.91	4.061	0.7765	22	0.67	181.99	0
181	Acid Soluble Cadmium (ppm)	0524	33.11	0.0764	29.91	4.061	0.7765	22	0.79	181.30	0
181	Acid Soluble Cadmium (ppm)	0527	35.27	0.0320	29.91	4.061	0.7765	22	1.32	181.33	0
181	Acid Soluble Cadmium (ppm)	0506	35.95	1.900	29.91	4.061	0.7765	22	1.49	181.99	0
181	Acid Soluble Cadmium (ppm)	0523	61.45	1.300	29.91	4.061	0.7765	22	7.77	181.30	0
190	Water Soluble Chlorine (%)	0105	0.5150	0.0500				1		190.00	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
191	Acid Soluble Chromium (ppm)	0394	66.85	0.3000	211.7	26.62	5.941	20	-5.44	191.30	0
191	Acid Soluble Chromium (ppm)	0027	158.0	0.0000	211.7	26.62	5.941	20	-2.02	191.30	0
191	Acid Soluble Chromium (ppm)	0520	163.1	0.2000	211.7	26.62	5.941	20	-1.83	191.99	0
191	Acid Soluble Chromium (ppm)	0506	188.0	10.00	211.7	26.62	5.941	20	-0.89	191.99	0
191	Acid Soluble Chromium (ppm)	0368	199.4	27.48	211.7	26.62	5.941	20	-0.46	191.30	0
191	Acid Soluble Chromium (ppm)	0515	202.4	0.3920	211.7	26.62	5.941	20	-0.35	191.34	0
191	Acid Soluble Chromium (ppm)	0035	204.0	8.000	211.7	26.62	5.941	20	-0.29	191.30	0
191	Acid Soluble Chromium (ppm)	0494	206.9	8.645	211.7	26.62	5.941	20	-0.18	191.33	0
191	Acid Soluble Chromium (ppm)	0444	209.5	5.000	211.7	26.62	5.941	20	-0.08	191.30	0
191	Acid Soluble Chromium (ppm)	0515	215.0	19.08	211.7	26.62	5.941	20	0.12	191.33	0
191	Acid Soluble Chromium (ppm)	0096	215.5	1.700	211.7	26.62	5.941	20	0.14	191.30	0
191	Acid Soluble Chromium (ppm)	0117	217.3	0.7000	211.7	26.62	5.941	20	0.21	191.33	0
191	Acid Soluble Chromium (ppm)	0519	219.7	0.7600	211.7	26.62	5.941	20	0.30	191.99	0
191	Acid Soluble Chromium (ppm)	0220	220.5	1.000	211.7	26.62	5.941	20	0.33	191.33	0
191	Acid Soluble Chromium (ppm)	0482	221.0	2.000	211.7	26.62	5.941	20	0.35	191.30	0
191	Acid Soluble Chromium (ppm)	0037	224.7	5.429	211.7	26.62	5.941	20	0.49	191.33	0
191	Acid Soluble Chromium (ppm)	0389	230.5	3.000	211.7	26.62	5.941	20	0.71	191.30	0
191	Acid Soluble Chromium (ppm)	0230	242.0	4.000	211.7	26.62	5.941	20	1.14	191.34	0
191	Acid Soluble Chromium (ppm)	0527	250.1	9.134	211.7	26.62	5.941	20	1.44	191.33	0
191	Acid Soluble Chromium (ppm)	0523	415.0	12.00	211.7	26.62	5.941	20	7.64	191.30	0
191	Acid Soluble Chromium (ppm)	0105	225.1	55.30	211.7	26.62	5.941	20	0.50	191.33	1
202	Acid Soluble Cobalt (ppm)	0423	0.6150	0.0500	1.228	0.6390	0.1505	11	-0.96	202.32	0
202	Acid Soluble Cobalt (ppm)	0519	0.6150	0.0300	1.228	0.6390	0.1505	11	-0.96	202.99	0
202	Acid Soluble Cobalt (ppm)	0527	0.6800	0.0200	1.228	0.6390	0.1505	11	-0.86	202.33	0
202	Acid Soluble Cobalt (ppm)	0220	0.8500	0.3000	1.228	0.6390	0.1505	11	-0.59	202.33	0
202	Acid Soluble Cobalt (ppm)	0494	0.9096	0.0056	1.228	0.6390	0.1505	11	-0.50	202.33	0
202	Acid Soluble Cobalt (ppm)	0482	1.170	0.3400	1.228	0.6390	0.1505	11	-0.09	202.30	0
202	Acid Soluble Cobalt (ppm)	0035	1.305	0.0700	1.228	0.6390	0.1505	11	0.12	202.30	0
202	Acid Soluble Cobalt (ppm)	0389	1.500	0.0000	1.228	0.6390	0.1505	11	0.43	202.30	0
202	Acid Soluble Cobalt (ppm)	0368	1.576	0.5128	1.228	0.6390	0.1505	11	0.54	202.30	0
202	Acid Soluble Cobalt (ppm)	0524	2.098	0.0374	1.228	0.6390	0.1505	11	1.36	202.30	0
202	Acid Soluble Cobalt (ppm)	0523	3.685	0.2900	1.228	0.6390	0.1505	11	3.85	202.30	0
202	Acid Soluble Cobalt (ppm)	0515	0.0000	0.0000	1.228	0.6390	0.1505	11		202.33	4
202	Acid Soluble Cobalt (ppm)	0515	0.0000	0.0000	1.228	0.6390	0.1505	11		202.34	4
221	Acid Soluble Copper (%)	0527	0.0001	0.0000	0.0007	0.0007	0.0001	10	-0.83	221.33	0
221	Acid Soluble Copper (%)	0389	0.0001	0.0000	0.0007	0.0007	0.0001	10	-0.83	221.99	0
221	Acid Soluble Copper (%)	0394	0.0002	0.0001	0.0007	0.0007	0.0001	10	-0.76	221.32	0
221	Acid Soluble Copper (%)	0368	0.0002	0.0001	0.0007	0.0007	0.0001	10	-0.76	221.99	0
221	Acid Soluble Copper (%)	0515	0.0004	0.0000	0.0007	0.0007	0.0001	10	-0.41	221.33	0
221	Acid Soluble Copper (%)	0515	0.0009	0.0001	0.0007	0.0007	0.0001	10	0.23	221.99	0
221	Acid Soluble Copper (%)	0519	0.0010	0.0000	0.0007	0.0007	0.0001	10	0.44	221.99	0
221	Acid Soluble Copper (%)	0483	0.0012	0.0003	0.0007	0.0007	0.0001	10	0.65	221.30	0
221	Acid Soluble Copper (%)	0521	0.0013	0.0000	0.0007	0.0007	0.0001	10	0.86	221.32	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
221	Acid Soluble Copper (%)	0043	0.0020	0.0004	0.0007	0.0007	0.0001	10	1.85	221.00	0
221	Acid Soluble Copper (%)	0354	0.0000	0.0000	0.0007	0.0007	0.0001	10		221.30	4
241	Acid Soluble Iron (%)	0521	0.3572	0.0000	0.4314	0.0292	0.0205	18	-2.54	241.32	0
241	Acid Soluble Iron (%)	0527	0.4000	0.0200	0.4314	0.0292	0.0205	18	-1.07	241.33	0
241	Acid Soluble Iron (%)	0117	0.4030	0.0190	0.4314	0.0292	0.0205	18	-0.97	241.33	0
241	Acid Soluble Iron (%)	0096	0.4050	0.0100	0.4314	0.0292	0.0205	18	-0.90	241.30	0
241	Acid Soluble Iron (%)	0354	0.4055	0.0370	0.4314	0.0292	0.0205	18	-0.89	241.30	0
241	Acid Soluble Iron (%)	0041	0.4150	0.0700	0.4314	0.0292	0.0205	18	-0.56	241.30	0
241	Acid Soluble Iron (%)	0035	0.4235	0.0630	0.4314	0.0292	0.0205	18	-0.27	241.30	0
241	Acid Soluble Iron (%)	0105	0.4248	0.0516	0.4314	0.0292	0.0205	18	-0.22	241.03	0
241	Acid Soluble Iron (%)	0402	0.4250	0.0100	0.4314	0.0292	0.0205	18	-0.22	241.30	0
241	Acid Soluble Iron (%)	0423	0.4305	0.0030	0.4314	0.0292	0.0205	18	-0.03	241.32	0
241	Acid Soluble Iron (%)	0494	0.4389	0.0071	0.4314	0.0292	0.0205	18	0.26	241.33	0
241	Acid Soluble Iron (%)	0404	0.4450	0.0100	0.4314	0.0292	0.0205	18	0.47	241.30	0
241	Acid Soluble Iron (%)	0482	0.4450	0.0100	0.4314	0.0292	0.0205	18	0.47	241.30	0
241	Acid Soluble Iron (%)	0389	0.4510	0.0100	0.4314	0.0292	0.0205	18	0.67	241.99	0
241	Acid Soluble Iron (%)	0421	0.4600	0.0200	0.4314	0.0292	0.0205	18	0.98	241.33	0
241	Acid Soluble Iron (%)	0524	0.4646	0.0058	0.4314	0.0292	0.0205	18	1.14	241.99	0
241	Acid Soluble Iron (%)	0472	0.4650	0.0100	0.4314	0.0292	0.0205	18	1.15	241.30	0
241	Acid Soluble Iron (%)	0483	0.5175	0.0130	0.4314	0.0292	0.0205	18	2.95	241.30	0
251	Acid Soluble Lead (ppm)	0494	0.1972	0.0405	0.8232	0.7865	0.0785	8	-0.73	251.33	0
251	Acid Soluble Lead (ppm)	0524	0.2182	0.0263	0.8232	0.7865	0.0785	8	-0.70	251.30	0
251	Acid Soluble Lead (ppm)	0527	0.2575	0.0030	0.8232	0.7865	0.0785	8	-0.66	251.33	0
251	Acid Soluble Lead (ppm)	0519	0.3750	0.0300	0.8232	0.7865	0.0785	8	-0.52	251.99	0
251	Acid Soluble Lead (ppm)	0220	0.8000	0.0000	0.8232	0.7865	0.0785	8	-0.03	251.33	0
251	Acid Soluble Lead (ppm)	0523	1.140	0.1800	0.8232	0.7865	0.0785	8	0.37	251.30	0
251	Acid Soluble Lead (ppm)	0515	1.595	0.2880	0.8232	0.7865	0.0785	8	0.90	251.33	0
251	Acid Soluble Lead (ppm)	0394	3.710	0.0600	0.8232	0.7865	0.0785	8	3.36	251.30	0
251	Acid Soluble Lead (ppm)	0482	3.935	1.090	0.8232	0.7865	0.0785	8	3.62	251.30	1
251	Acid Soluble Lead (ppm)	0368	0.0000	0.0000	0.8232	0.7865	0.0785	8		251.30	4
251	Acid Soluble Lead (ppm)	0515	0.0000	0.0000	0.8232	0.7865	0.0785	8		251.34	4
261	Acid Soluble Manganese (%)	0423	0.0039	0.0002	0.0046	0.0005	0.0003	12	-1.41	261.34	0
261	Acid Soluble Manganese (%)	0494	0.0041	0.0002	0.0046	0.0005	0.0003	12	-1.00	261.35	0
261	Acid Soluble Manganese (%)	0527	0.0042	0.0002	0.0046	0.0005	0.0003	12	-0.79	261.35	0
261	Acid Soluble Manganese (%)	0117	0.0045	0.0001	0.0046	0.0005	0.0003	12	-0.28	261.35	0
261	Acid Soluble Manganese (%)	0041	0.0045	0.0010	0.0046	0.0005	0.0003	12	-0.18	261.30	0
261	Acid Soluble Manganese (%)	0354	0.0045	0.0010	0.0046	0.0005	0.0003	12	-0.18	261.30	0
261	Acid Soluble Manganese (%)	0105	0.0046	0.0005	0.0046	0.0005	0.0003	12	-0.07	261.15	0
261	Acid Soluble Manganese (%)	0035	0.0047	0.0004	0.0046	0.0005	0.0003	12	0.24	261.30	0
261	Acid Soluble Manganese (%)	0389	0.0048	0.0001	0.0046	0.0005	0.0003	12	0.34	261.99	0
261	Acid Soluble Manganese (%)	0524	0.0048	0.0001	0.0046	0.0005	0.0003	12	0.34	261.99	0
261	Acid Soluble Manganese (%)	0483	0.0055	0.0001	0.0046	0.0005	0.0003	12	1.78	261.32	0
261	Acid Soluble Manganese (%)	0521	0.0059	0.0000	0.0046	0.0005	0.0003	12	2.71	261.34	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
261	Acid Soluble Manganese (%)	0096	43.55	0.5000	0.0046	0.0005	0.0003	12	89722.05	261.30	2
281	Acid Soluble Mercury (ppm)	0394	0.0122	0.0042	0.0522	0.0586	0.0071	3	-0.68	281.30	0
281	Acid Soluble Mercury (ppm)	0519	0.0250	0.0100	0.0522	0.0586	0.0071	3	-0.46	281.99	0
281	Acid Soluble Mercury (ppm)	0527	0.1195	0.0070	0.0522	0.0586	0.0071	3	1.15	281.30	0
281	Acid Soluble Mercury (ppm)	0515	0.0000	0.0000	0.0522	0.0586	0.0071	3		281.30	4
289	Acid Soluble Molybdenum (ppm)	0394	0.0011	0.0000	3.721	1.555	0.3274	17	-2.39	289.32	0
289	Acid Soluble Molybdenum (ppm)	0515	1.581	0.5040	3.721	1.555	0.3274	17	-1.38	289.34	0
289	Acid Soluble Molybdenum (ppm)	0515	1.848	0.2030	3.721	1.555	0.3274	17	-1.20	289.33	0
289	Acid Soluble Molybdenum (ppm)	0096	2.150	0.1000	3.721	1.555	0.3274	17	-1.01	289.30	0
289	Acid Soluble Molybdenum (ppm)	0433	3.085	0.0510	3.721	1.555	0.3274	17	-0.41	289.30	0
289	Acid Soluble Molybdenum (ppm)	0520	3.090	0.1600	3.721	1.555	0.3274	17	-0.41	289.99	0
289	Acid Soluble Molybdenum (ppm)	0494	3.441	0.1207	3.721	1.555	0.3274	17	-0.18	289.33	0
289	Acid Soluble Molybdenum (ppm)	0037	3.911	0.1140	3.721	1.555	0.3274	17	0.12	289.33	0
289	Acid Soluble Molybdenum (ppm)	0524	4.046	0.0358	3.721	1.555	0.3274	17	0.21	289.30	0
289	Acid Soluble Molybdenum (ppm)	0423	4.185	0.0900	3.721	1.555	0.3274	17	0.30	289.33	0
289	Acid Soluble Molybdenum (ppm)	0105	4.263	0.8850	3.721	1.555	0.3274	17	0.35	289.00	0
289	Acid Soluble Molybdenum (ppm)	0527	4.305	0.0830	3.721	1.555	0.3274	17	0.38	289.33	0
289	Acid Soluble Molybdenum (ppm)	0519	4.520	0.0400	3.721	1.555	0.3274	17	0.51	289.99	0
289	Acid Soluble Molybdenum (ppm)	0521	4.858	0.0000	3.721	1.555	0.3274	17	0.73	289.30	0
289	Acid Soluble Molybdenum (ppm)	0506	4.990	1.180	3.721	1.555	0.3274	17	0.82	289.99	0
289	Acid Soluble Molybdenum (ppm)	0035	5.590	1.600	3.721	1.555	0.3274	17	1.20	289.30	0
289	Acid Soluble Molybdenum (ppm)	0220	6.000	0.4000	3.721	1.555	0.3274	17	1.47	289.33	0
289	Acid Soluble Molybdenum (ppm)	0368	1.370	2.740	3.721	1.555	0.3274	17		289.30	4
291	Acid Soluble Nickel (ppm)	0096	7.850	0.1000	12.16	1.530	0.3918	19	-2.82	291.30	0
291	Acid Soluble Nickel (ppm)	0515	8.592	0.9720	12.16	1.530	0.3918	19	-2.33	291.34	0
291	Acid Soluble Nickel (ppm)	0394	10.20	0.2000	12.16	1.530	0.3918	19	-1.28	291.30	0
291	Acid Soluble Nickel (ppm)	0521	10.75	0.0000	12.16	1.530	0.3918	19	-0.92	291.30	0
291	Acid Soluble Nickel (ppm)	0444	11.24	0.2700	12.16	1.530	0.3918	19	-0.61	291.30	0
291	Acid Soluble Nickel (ppm)	0482	11.55	0.1000	12.16	1.530	0.3918	19	-0.40	291.30	0
291	Acid Soluble Nickel (ppm)	0494	11.93	0.4808	12.16	1.530	0.3918	19	-0.15	291.33	0
291	Acid Soluble Nickel (ppm)	0368	12.00	0.9082	12.16	1.530	0.3918	19	-0.11	291.30	0
291	Acid Soluble Nickel (ppm)	0519	12.27	0.0700	12.16	1.530	0.3918	19	0.07	291.99	0
291	Acid Soluble Nickel (ppm)	0524	12.36	0.0259	12.16	1.530	0.3918	19	0.13	291.30	0
291	Acid Soluble Nickel (ppm)	0527	12.41	0.3180	12.16	1.530	0.3918	19	0.16	291.33	0
291	Acid Soluble Nickel (ppm)	0035	12.45	0.3000	12.16	1.530	0.3918	19	0.19	291.30	0
291	Acid Soluble Nickel (ppm)	0117	12.74	0.0500	12.16	1.530	0.3918	19	0.37	291.33	0
291	Acid Soluble Nickel (ppm)	0037	12.80	0.3700	12.16	1.530	0.3918	19	0.42	291.33	0
291	Acid Soluble Nickel (ppm)	0136	13.00	0.0000	12.16	1.530	0.3918	19	0.55	291.00	0
291	Acid Soluble Nickel (ppm)	0220	13.35	0.1000	12.16	1.530	0.3918	19	0.78	291.33	0
291	Acid Soluble Nickel (ppm)	0230	13.40	0.2000	12.16	1.530	0.3918	19	0.81	291.34	0
291	Acid Soluble Nickel (ppm)	0105	19.60	1.980	12.16	1.530	0.3918	19	4.86	291.33	0
291	Acid Soluble Nickel (ppm)	0523	23.06	1.000	12.16	1.530	0.3918	19	7.12	291.30	0
291	Acid Soluble Nickel (ppm)	0515	8.925	3.408	12.16	1.530	0.3918	19	-2.12	291.33	1

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
301	Acid Soluble Selenium (ppm)	0519	0.0100	0.0000	1.125	1.200	0.2108	4	-0.79	301.99	0
301	Acid Soluble Selenium (ppm)	0524	0.1969	0.0123	1.125	1.200	0.2108	4	-0.66	301.30	0
301	Acid Soluble Selenium (ppm)	0527	1.895	0.0310	1.125	1.200	0.2108	4	0.54	301.33	0
301	Acid Soluble Selenium (ppm)	0220	2.400	0.8000	1.125	1.200	0.2108	4	0.90	301.33	0
301	Acid Soluble Selenium (ppm)	0368	0.0000	0.0000	1.125	1.200	0.2108	4		301.30	4
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	1.125	1.200	0.2108	4		301.33	4
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	1.125	1.200	0.2108	4		301.34	4
311	Sodium (%)	0035	0.1745	0.0410	0.1966	0.0228	0.0124	7	-0.88	311.33	0
311	Sodium (%)	0482	0.1750	0.0100	0.1966	0.0228	0.0124	7	-0.86	311.99	0
311	Sodium (%)	0096	0.1900	0.0000	0.1966	0.0228	0.0124	7	-0.26	311.99	0
311	Sodium (%)	0527	0.1950	0.0100	0.1966	0.0228	0.0124	7	-0.06	311.33	0
311	Sodium (%)	0423	0.1975	0.0050	0.1966	0.0228	0.0124	7	0.04	311.33	0
311	Sodium (%)	0354	0.2145	0.0210	0.1966	0.0228	0.0124	7	0.71	311.99	0
311	Sodium (%)	0521	0.2297	0.0000	0.1966	0.0228	0.0124	7	1.31	311.32	0
321	Acid Soluble Zinc (%)	0423	0.0070	0.0004	0.0377	0.0038	0.0011	31	-7.99	321.32	0
321	Acid Soluble Zinc (%)	0394	0.0110	0.0000	0.0377	0.0038	0.0011	31	-6.95	321.32	0
321	Acid Soluble Zinc (%)	0520	0.0267	0.0000	0.0377	0.0038	0.0011	31	-2.86	321.99	0
321	Acid Soluble Zinc (%)	0519	0.0300	0.0000	0.0377	0.0038	0.0011	31	-2.01	321.99	0
321	Acid Soluble Zinc (%)	0027	0.0325	0.0030	0.0377	0.0038	0.0011	31	-1.35	321.99	0
321	Acid Soluble Zinc (%)	0494	0.0340	0.0013	0.0377	0.0038	0.0011	31	-0.98	321.33	0
321	Acid Soluble Zinc (%)	0521	0.0341	0.0000	0.0377	0.0038	0.0011	31	-0.94	321.32	0
321	Acid Soluble Zinc (%)	0515	0.0344	0.0002	0.0377	0.0038	0.0011	31	-0.86	321.99	0
321	Acid Soluble Zinc (%)	0444	0.0345	0.0010	0.0377	0.0038	0.0011	31	-0.83	321.30	0
321	Acid Soluble Zinc (%)	0041	0.0375	0.0070	0.0377	0.0038	0.0011	31	-0.05	321.30	0
321	Acid Soluble Zinc (%)	0354	0.0375	0.0050	0.0377	0.0038	0.0011	31	-0.05	321.30	0
321	Acid Soluble Zinc (%)	0515	0.0376	0.0037	0.0377	0.0038	0.0011	31	-0.04	321.33	0
321	Acid Soluble Zinc (%)	0105	0.0377	0.0015	0.0377	0.0038	0.0011	31	-0.01	321.03	0
321	Acid Soluble Zinc (%)	0117	0.0382	0.0003	0.0377	0.0038	0.0011	31	0.12	321.33	0
321	Acid Soluble Zinc (%)	0368	0.0383	0.0004	0.0377	0.0038	0.0011	31	0.16	321.99	0
321	Acid Soluble Zinc (%)	0389	0.0384	0.0002	0.0377	0.0038	0.0011	31	0.18	321.99	0
321	Acid Soluble Zinc (%)	0037	0.0388	0.0010	0.0377	0.0038	0.0011	31	0.29	321.33	0
321	Acid Soluble Zinc (%)	0220	0.0390	0.0000	0.0377	0.0038	0.0011	31	0.34	321.33	0
321	Acid Soluble Zinc (%)	0230	0.0398	0.0004	0.0377	0.0038	0.0011	31	0.55	321.30	0
321	Acid Soluble Zinc (%)	0292	0.0400	0.0000	0.0377	0.0038	0.0011	31	0.60	321.30	0
321	Acid Soluble Zinc (%)	0472	0.0400	0.0000	0.0377	0.0038	0.0011	31	0.60	321.30	0
321	Acid Soluble Zinc (%)	0482	0.0400	0.0000	0.0377	0.0038	0.0011	31	0.60	321.30	0
321	Acid Soluble Zinc (%)	0105	0.0400	0.0030	0.0377	0.0038	0.0011	31	0.60	321.33	0
321	Acid Soluble Zinc (%)	0421	0.0400	0.0000	0.0377	0.0038	0.0011	31	0.60	321.33	0
321	Acid Soluble Zinc (%)	0527	0.0400	0.0000	0.0377	0.0038	0.0011	31	0.60	321.33	0
321	Acid Soluble Zinc (%)	0487	0.0400	0.0000	0.0377	0.0038	0.0011	31	0.60	321.99	0
321	Acid Soluble Zinc (%)	0096	0.0401	0.0008	0.0377	0.0038	0.0011	31	0.62	321.30	0
321	Acid Soluble Zinc (%)	0433	0.0407	0.0014	0.0377	0.0038	0.0011	31	0.78	321.30	0
321	Acid Soluble Zinc (%)	0043	0.0422	0.0009	0.0377	0.0038	0.0011	31	1.16	321.00	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321	Acid Soluble Zinc (%)	0524	0.0425	0.0000	0.0377	0.0038	0.0011	31	1.25	321.99	0
321	Acid Soluble Zinc (%)	0483	0.0493	0.0029	0.0377	0.0038	0.0011	31	3.01	321.30	0
321	Acid Soluble Zinc (%)	0035	0.0375	0.0090	0.0377	0.0038	0.0011	31	-0.05	321.30	1
325	Water Soluble Zinc (%)	0402	0.0350	0.0100				1		325.30	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.