

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 170711

Grade 7-25-40

Statistical Summary

Analytes: 34

Labs Reporting: 93

Issue Date : 08/31/2017

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 (%)	1		24.01									
002	Nitrate Nitrogen (%)	20	18	6.846	0.6765	7.008		0.1781	0.0525	2.54%		0.0929	2.98%
009	Ammoniacal Plus Nitrate Nitrogen (%)	5	5	7.259	0.3074	7.259		0.3074	0.1718	4.23%		0.0380	2.97%
010	Total Nitrogen (7%)	72	67	6.544	1.114	6.770	0.5354	0.5281	0.0806	7.80%	3.95%	0.1020	3.00%
020	Total Phosphorus as P2O5 (%)	52	50	25.09	0.7425	25.04		0.6375	0.1127	2.55%		0.3034	2.46%
030	Citrate Insoluble Phosphorus as P2O5 (%)	1		0.0150									
040	Indirect Available Phosphorus as P2O5 (25%)	3	3	24.78	0.1343	24.78	0.7300	0.1343	0.0969	0.54%	1.47%	0.0700	2.47%
041	Direct Available Phosphorus as P2O5 (25%)	50	48	24.97	0.6747	25.01	0.7300	0.5349	0.0965	2.14%	1.46%	0.2146	2.46%
048	Water Soluble Phosphorus as P2O5 (%)	5	5	24.69	0.4970	24.69		0.4970	0.2779	2.01%		0.0739	2.47%
050	Soluble Potassium as K2O (40%)	91	85	40.23	2.133	40.47	1.5447	1.040	0.1411	2.57%	1.91%	0.3543	2.29%
060	Water (Free) (%)	7	7	0.2243	0.0556	0.2262		0.0587	0.0277	25.94%		0.0324	5.00%
101	Acid Soluble Calcium (%)	6	6	0.0230	0.0313	0.0171		0.0208	0.0106	121.64%		0.0013	7.38%
121	Acid Soluble Magnesium (%)	8	7	0.0063	0.0099	0.0038		0.0045	0.0021	118.13%		0.0003	9.24%
143	Elemental Sulfur (%)	1		0.0060									
148	Total Sulfur (%)	6	6	0.0113	0.0076	0.0108		0.0075	0.0038	69.04%		0.0030	7.90%
149	Sulfur - HNO3 soluble (%)	2	2	0.0047	0.0012								
151	Acid Soluble Arsenic (ppm)	16	15	7.559	1.480	7.610		1.564	0.5049	20.56%		0.2894	11.79%
165	Acid Soluble Boron (%)	5	4	0.0068	0.0057	0.0068		0.0057	0.0035	83.27%		0.0010	8.47%
181	Acid Soluble Cadmium (ppm)	15	11	0.2819	0.4275	0.1709		0.1053	0.0397	61.60%		0.0415	20.87%
190	Water Soluble Chlorine (%)	1		0.4300									
191	Acid Soluble Chromium (ppm)	15	14	3.421	1.226	3.421		1.390	0.4643	40.63%		0.4196	13.29%
202	Acid Soluble Cobalt (ppm)	11	10	1.400	3.242	0.3558		0.3017	0.1193	84.80%		0.0917	18.69%
221	Acid Soluble Copper (%)	17	15	0.0003	0.0001	0.0003		0.0001	0.0000	46.71%		0.0001	13.58%
241	Acid Soluble Iron (%)	10	10	0.0057	0.0041	0.0050		0.0030	0.0012	59.20%		0.0011	8.87%
251	Acid Soluble Lead (ppm)	15	9	2.108	4.992	0.5953		0.7600	0.3167	127.67%		0.1524	17.30%
261	Acid Soluble Manganese (%)												
271	Water Soluble Manganese (%)	1		0.0003									
281	Acid Soluble Mercury (ppm)	4	3	0.3635	0.5773	0.3635		0.5773	0.4167	158.83%		0.6758	18.63%
289	Acid Soluble Molybdenum (ppm)	13	12	1.381	2.249	0.7607		0.3684	0.1329	48.43%		0.2889	16.67%
291	Acid Soluble Nickel (ppm)	16	14	1.696	1.171	1.443		0.6891	0.2302	47.75%		0.2196	15.14%
301	Acid Soluble Selenium (ppm)	9	5	0.1382	0.1575	0.1382		0.1575	0.0880	113.96%		0.0447	21.55%

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 (%)	6	6	0.2947	0.0288	0.2924		0.0270	0.0138	9.22%		0.0087	4.81%
321	Acid Soluble Zinc (%)	20	19	0.0023	0.0014	0.0021		0.0010	0.0003	46.11%		0.0002	10.12%
325	Water Soluble Zinc (%)	1		0.0012									

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Analytes: 34

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Lab Values

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Issue Date : 08/31/2017

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 (%)	0524	24.01	0.1500				1		001.99	0
002	Nitrate Nitrogen (%)	0368	4.270	0.0800	7.008	0.1781	0.0929	18	-15.37	002.99	0
002	Nitrate Nitrogen (%)	0415	6.323	0.1733	7.008	0.1781	0.0929	18	-3.85	002.20	0
002	Nitrate Nitrogen (%)	0394	6.728	0.0610	7.008	0.1781	0.0929	18	-1.57	002.99	0
002	Nitrate Nitrogen (%)	0538	6.875	0.0500	7.008	0.1781	0.0929	18	-0.74	002.99	0
002	Nitrate Nitrogen (%)	0486	6.935	0.1100	7.008	0.1781	0.0929	18	-0.41	002.99	0
002	Nitrate Nitrogen (%)	0518	6.950	0.3000	7.008	0.1781	0.0929	18	-0.32	002.99	0
002	Nitrate Nitrogen (%)	0501	6.951	0.0310	7.008	0.1781	0.0929	18	-0.32	002.99	0
002	Nitrate Nitrogen (%)	0539	7.000	0.1000	7.008	0.1781	0.0929	18	-0.04	002.99	0
002	Nitrate Nitrogen (%)	0513	7.035	0.0500	7.008	0.1781	0.0929	18	0.15	002.99	0
002	Nitrate Nitrogen (%)	0537	7.035	0.1698	7.008	0.1781	0.0929	18	0.16	002.99	0
002	Nitrate Nitrogen (%)	0532	7.050	0.0600	7.008	0.1781	0.0929	18	0.24	002.99	0
002	Nitrate Nitrogen (%)	0027	7.081	0.0370	7.008	0.1781	0.0929	18	0.41	002.99	0
002	Nitrate Nitrogen (%)	0533	7.110	0.0200	7.008	0.1781	0.0929	18	0.57	002.99	0
002	Nitrate Nitrogen (%)	0397	7.120	0.0800	7.008	0.1781	0.0929	18	0.63	002.99	0
002	Nitrate Nitrogen (%)	0535	7.150	0.0600	7.008	0.1781	0.0929	18	0.80	002.99	0
002	Nitrate Nitrogen (%)	0231	7.175	0.0700	7.008	0.1781	0.0929	18	0.94	002.99	0
002	Nitrate Nitrogen (%)	0540	7.200	0.2000	7.008	0.1781	0.0929	18	1.08	002.99	0
002	Nitrate Nitrogen (%)	0531	7.250	0.0200	7.008	0.1781	0.0929	18	1.36	002.99	0
002	Nitrate Nitrogen (%)	0506	7.500	0.7800	7.008	0.1781	0.0929	18	2.76	002.99	1
002	Nitrate Nitrogen (%)	0371	31.35	0.1000	7.008	0.1781	0.0929	18	136.68	002.99	2
009	Ammoniacal Plus Nitrate Nitrogen (%)	0309	6.935	0.0500	7.259	0.3074	0.0380	5	-1.05	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0169	7.095	0.0100	7.259	0.3074	0.0380	5	-0.53	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0513	7.105	0.0100	7.259	0.3074	0.0380	5	-0.50	009.99	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0090	7.490	0.0200	7.259	0.3074	0.0380	5	0.75	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0444	7.670	0.1000	7.259	0.3074	0.0380	5	1.34	009.10	0
010	Total Nitrogen (7%)	0541	0.1400*	0.1000	6.770	0.5281	0.1020	67	-12.55	010.60	0
010	Total Nitrogen (7%)	0483	3.795*	0.0100	6.770	0.5281	0.1020	67	-5.63	010.60	0
010	Total Nitrogen (7%)	0073	4.370*	0.3600	6.770	0.5281	0.1020	67	-4.54	010.60	0
010	Total Nitrogen (7%)	0042	4.565*	0.3100	6.770	0.5281	0.1020	67	-4.18	010.60	0
010	Total Nitrogen (7%)	0307	4.735*	0.0500	6.770	0.5281	0.1020	67	-3.85	010.60	0
010	Total Nitrogen (7%)	0524	4.978*	0.1210	6.770	0.5281	0.1020	67	-3.39	010.99	0
010	Total Nitrogen (7%)	0018	5.345*	0.1500	6.770	0.5281	0.1020	67	-2.70	010.60	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 (7%)	0234	5.365*	0.0500	6.770	0.5281	0.1020	67	-2.66	010.60	0
010	Total Nitrogen (7%)	0292	5.430*	0.0200	6.770	0.5281	0.1020	67	-2.54	010.60	0
010	Total Nitrogen (7%)	0177	5.896*	0.2030	6.770	0.5281	0.1020	67	-1.66	010.60	0
010	Total Nitrogen (7%)	0324	6.010*	0.0400	6.770	0.5281	0.1020	67	-1.44	010.60	0
010	Total Nitrogen (7%)	0523	6.100*	0.0000	6.770	0.5281	0.1020	67	-1.27	010.60	0
010	Total Nitrogen (7%)	0522	6.175*	0.0100	6.770	0.5281	0.1020	67	-1.13	010.99	0
010	Total Nitrogen (7%)	0309	6.215*	0.1500	6.770	0.5281	0.1020	67	-1.05	010.11	0
010	Total Nitrogen (7%)	0095	6.220*	0.1400	6.770	0.5281	0.1020	67	-1.04	010.60	0
010	Total Nitrogen (7%)	0406	6.295	0.2500	6.770	0.5281	0.1020	67	-0.90	010.60	0
010	Total Nitrogen (7%)	0501	6.367	0.0180	6.770	0.5281	0.1020	67	-0.76	010.60	0
010	Total Nitrogen (7%)	0521	6.437	0.0000	6.770	0.5281	0.1020	67	-0.63	010.60	0
010	Total Nitrogen (7%)	0325	6.460	0.2200	6.770	0.5281	0.1020	67	-0.59	010.60	0
010	Total Nitrogen (7%)	0356	6.495	0.0100	6.770	0.5281	0.1020	67	-0.52	010.60	0
010	Total Nitrogen (7%)	0472	6.510	0.0600	6.770	0.5281	0.1020	67	-0.49	010.60	0
010	Total Nitrogen (7%)	0043	6.670	0.3200	6.770	0.5281	0.1020	67	-0.19	010.60	0
010	Total Nitrogen (7%)	0157	6.750	0.4400	6.770	0.5281	0.1020	67	-0.04	010.60	0
010	Total Nitrogen (7%)	0230	6.750	0.0200	6.770	0.5281	0.1020	67	-0.04	010.60	0
010	Total Nitrogen (7%)	0027	6.780	0.0200	6.770	0.5281	0.1020	67	0.02	010.60	0
010	Total Nitrogen (7%)	0397	6.795	0.0900	6.770	0.5281	0.1020	67	0.05	010.12	0
010	Total Nitrogen (7%)	0055	6.830	0.1000	6.770	0.5281	0.1020	67	0.11	010.60	0
010	Total Nitrogen (7%)	0029	6.836	0.1170	6.770	0.5281	0.1020	67	0.12	010.60	0
010	Total Nitrogen (7%)	0527	6.860	0.1640	6.770	0.5281	0.1020	67	0.17	010.60	0
010	Total Nitrogen (7%)	0500	6.910	0.0200	6.770	0.5281	0.1020	67	0.27	010.11	0
010	Total Nitrogen (7%)	0137	6.920	0.0350	6.770	0.5281	0.1020	67	0.28	010.60	0
010	Total Nitrogen (7%)	0543	6.960	0.3700	6.770	0.5281	0.1020	67	0.36	010.60	0
010	Total Nitrogen (7%)	0131	6.965	0.0500	6.770	0.5281	0.1020	67	0.37	010.60	0
010	Total Nitrogen (7%)	0390	6.975	0.0500	6.770	0.5281	0.1020	67	0.39	010.60	0
010	Total Nitrogen (7%)	0377	6.980	0.3000	6.770	0.5281	0.1020	67	0.40	010.60	0
010	Total Nitrogen (7%)	0486	6.980	0.1000	6.770	0.5281	0.1020	67	0.40	010.60	0
010	Total Nitrogen (7%)	0291	7.000	0.0000	6.770	0.5281	0.1020	67	0.44	010.60	0
010	Total Nitrogen (7%)	0534	7.000	0.0000	6.770	0.5281	0.1020	67	0.44	010.60	0
010	Total Nitrogen (7%)	0354	7.010	0.1710	6.770	0.5281	0.1020	67	0.45	010.60	0
010	Total Nitrogen (7%)	0389	7.015	0.0700	6.770	0.5281	0.1020	67	0.46	010.60	0
010	Total Nitrogen (7%)	0536	7.025	0.1500	6.770	0.5281	0.1020	67	0.48	010.11	0
010	Total Nitrogen (7%)	0105	7.030	0.0400	6.770	0.5281	0.1020	67	0.49	010.11	0
010	Total Nitrogen (7%)	0040	7.050	0.5000	6.770	0.5281	0.1020	67	0.53	010.60	0
010	Total Nitrogen (7%)	0493	7.050	0.1000	6.770	0.5281	0.1020	67	0.53	010.99	0
010	Total Nitrogen (7%)	0105	7.054	0.0474	6.770	0.5281	0.1020	67	0.54	010.60	0
010	Total Nitrogen (7%)	0416	7.055	0.0500	6.770	0.5281	0.1020	67	0.54	010.12	0
010	Total Nitrogen (7%)	0405	7.070	0.0200	6.770	0.5281	0.1020	67	0.57	010.60	0
010	Total Nitrogen (7%)	0231	7.075	0.0100	6.770	0.5281	0.1020	67	0.58	010.60	0
010	Total Nitrogen (7%)	0529	7.080	0.0800	6.770	0.5281	0.1020	67	0.59	010.11	0
010	Total Nitrogen (7%)	0220	7.085	0.0100	6.770	0.5281	0.1020	67	0.60	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 (7%)	0007	7.100	0.0000	6.770	0.5281	0.1020	67	0.62	010.60	0
010	Total Nitrogen (7%)	0482	7.100	0.0000	6.770	0.5281	0.1020	67	0.62	010.60	0
010	Total Nitrogen (7%)	0034	7.119	0.0530	6.770	0.5281	0.1020	67	0.66	010.60	0
010	Total Nitrogen (7%)	0136	7.120	0.0400	6.770	0.5281	0.1020	67	0.66	010.60	0
010	Total Nitrogen (7%)	0485	7.130	0.1800	6.770	0.5281	0.1020	67	0.68	010.60	0
010	Total Nitrogen (7%)	0494	7.135	0.2100	6.770	0.5281	0.1020	67	0.69	010.60	0
010	Total Nitrogen (7%)	0452	7.140	0.0200	6.770	0.5281	0.1020	67	0.70	010.60	0
010	Total Nitrogen (7%)	0049	7.145	0.1300	6.770	0.5281	0.1020	67	0.71	010.60	0
010	Total Nitrogen (7%)	0368	7.188	0.0350	6.770	0.5281	0.1020	67	0.79	010.60	0
010	Total Nitrogen (7%)	0070	7.225	0.0100	6.770	0.5281	0.1020	67	0.86	010.60	0
010	Total Nitrogen (7%)	0421	7.235	0.0100	6.770	0.5281	0.1020	67	0.88	010.60	0
010	Total Nitrogen (7%)	0402	7.240	0.0200	6.770	0.5281	0.1020	67	0.89	010.60	0
010	Total Nitrogen (7%)	0360	7.275	0.0700	6.770	0.5281	0.1020	67	0.96	010.60	0
010	Total Nitrogen (7%)	0096	7.310	0.0400	6.770	0.5281	0.1020	67	1.02	010.60	0
010	Total Nitrogen (7%)	0025	7.480	0.0480	6.770	0.5281	0.1020	67	1.34	010.60	0
010	Total Nitrogen (7%)	0510	7.495	0.0445	6.770	0.5281	0.1020	67	1.37	010.11	0
010	Total Nitrogen (7%)	0444	7.535	0.2100	6.770	0.5281	0.1020	67	1.45	010.60	0
010	Total Nitrogen (7%)	0451	5.404*	0.7520	6.770	0.5281	0.1020	67	-2.59	010.60	1
010	Total Nitrogen (7%)	0086	5.928*	0.7778	6.770	0.5281	0.1020	67	-1.59	010.60	1
010	Total Nitrogen (7%)	0506	7.500	0.7800	6.770	0.5281	0.1020	67	1.38	010.99	1
010	Total Nitrogen (7%)	0041	21.01	0.3300	6.770	0.5281	0.1020	67	26.96	010.60	2
010	Total Nitrogen (7%)	0114	0.00000*	0.0000	6.770	0.5281	0.1020	67		010.11	4
020	Total Phosphorus as P2O5 (%)	0472	23.58	0.0500	25.04	0.6375	0.3034	50	-2.29	020.50	0
020	Total Phosphorus as P2O5 (%)	0501	23.80	0.3070	25.04	0.6375	0.3034	50	-1.93	020.50	0
020	Total Phosphorus as P2O5 (%)	0543	24.15	1.772	25.04	0.6375	0.3034	50	-1.39	020.50	0
020	Total Phosphorus as P2O5 (%)	0157	24.15	0.1000	25.04	0.6375	0.3034	50	-1.39	020.50	0
020	Total Phosphorus as P2O5 (%)	0506	24.25	0.1000	25.04	0.6375	0.3034	50	-1.23	020.20	0
020	Total Phosphorus as P2O5 (%)	0234	24.32	0.1300	25.04	0.6375	0.3034	50	-1.13	020.50	0
020	Total Phosphorus as P2O5 (%)	0309	24.35	0.0000	25.04	0.6375	0.3034	50	-1.07	020.20	0
020	Total Phosphorus as P2O5 (%)	0027	24.36	0.5440	25.04	0.6375	0.3034	50	-1.07	020.20	0
020	Total Phosphorus as P2O5 (%)	0522	24.40	0.0100	25.04	0.6375	0.3034	50	-1.00	020.20	0
020	Total Phosphorus as P2O5 (%)	0444	24.52	0.3200	25.04	0.6375	0.3034	50	-0.81	020.50	0
020	Total Phosphorus as P2O5 (%)	0513	24.59	0.0600	25.04	0.6375	0.3034	50	-0.70	020.99	0
020	Total Phosphorus as P2O5 (%)	0169	24.60	0.0400	25.04	0.6375	0.3034	50	-0.68	020.20	0
020	Total Phosphorus as P2O5 (%)	0415	24.62	0.0951	25.04	0.6375	0.3034	50	-0.65	020.20	0
020	Total Phosphorus as P2O5 (%)	0405	24.66	0.0400	25.04	0.6375	0.3034	50	-0.59	020.20	0
020	Total Phosphorus as P2O5 (%)	0433	24.70	0.0500	25.04	0.6375	0.3034	50	-0.53	020.50	0
020	Total Phosphorus as P2O5 (%)	0394	24.77	0.0850	25.04	0.6375	0.3034	50	-0.42	020.20	0
020	Total Phosphorus as P2O5 (%)	0389	24.82	0.4100	25.04	0.6375	0.3034	50	-0.35	020.50	0
020	Total Phosphorus as P2O5 (%)	0105	24.82	0.3800	25.04	0.6375	0.3034	50	-0.34	020.10	0
020	Total Phosphorus as P2O5 (%)	0416	24.84	0.0300	25.04	0.6375	0.3034	50	-0.31	020.10	0
020	Total Phosphorus as P2O5 (%)	0157	24.85	0.3000	25.04	0.6375	0.3034	50	-0.29	020.10	0
020	Total Phosphorus as P2O5 (%)	0476	24.87	0.0780	25.04	0.6375	0.3034	50	-0.27	020.20	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 (%)	0534	24.90	0.0000	25.04	0.6375	0.3034	50	-0.21	020.20	0
020	Total Phosphorus as P2O5 (%)	0231	24.93	0.0500	25.04	0.6375	0.3034	50	-0.17	020.20	0
020	Total Phosphorus as P2O5 (%)	0096	24.94	0.0800	25.04	0.6375	0.3034	50	-0.15	020.40	0
020	Total Phosphorus as P2O5 (%)	0493	24.95	0.1000	25.04	0.6375	0.3034	50	-0.13	020.10	0
020	Total Phosphorus as P2O5 (%)	0521	25.00	0.0000	25.04	0.6375	0.3034	50	-0.06	020.50	0
020	Total Phosphorus as P2O5 (%)	0356	25.01	0.2600	25.04	0.6375	0.3034	50	-0.04	020.20	0
020	Total Phosphorus as P2O5 (%)	0508	25.07	0.0300	25.04	0.6375	0.3034	50	0.05	020.50	0
020	Total Phosphorus as P2O5 (%)	0444	25.14	0.0300	25.04	0.6375	0.3034	50	0.16	020.10	0
020	Total Phosphorus as P2O5 (%)	0292	25.15	0.0300	25.04	0.6375	0.3034	50	0.17	020.20	0
020	Total Phosphorus as P2O5 (%)	0324	25.15	0.7000	25.04	0.6375	0.3034	50	0.18	020.20	0
020	Total Phosphorus as P2O5 (%)	0523	25.15	0.5000	25.04	0.6375	0.3034	50	0.18	020.50	0
020	Total Phosphorus as P2O5 (%)	0090	25.20	0.0700	25.04	0.6375	0.3034	50	0.25	020.10	0
020	Total Phosphorus as P2O5 (%)	0524	25.21	0.3016	25.04	0.6375	0.3034	50	0.27	020.50	0
020	Total Phosphorus as P2O5 (%)	0510	25.27	0.0283	25.04	0.6375	0.3034	50	0.36	020.20	0
020	Total Phosphorus as P2O5 (%)	0371	25.30	0.2000	25.04	0.6375	0.3034	50	0.42	020.20	0
020	Total Phosphorus as P2O5 (%)	0406	25.37	0.3200	25.04	0.6375	0.3034	50	0.53	020.20	0
020	Total Phosphorus as P2O5 (%)	0535	25.51	0.0200	25.04	0.6375	0.3034	50	0.75	020.20	0
020	Total Phosphorus as P2O5 (%)	0390	25.57	1.420	25.04	0.6375	0.3034	50	0.84	020.50	0
020	Total Phosphorus as P2O5 (%)	0114	25.60	0.3000	25.04	0.6375	0.3034	50	0.89	020.10	0
020	Total Phosphorus as P2O5 (%)	0541	25.60	0.0400	25.04	0.6375	0.3034	50	0.89	020.20	0
020	Total Phosphorus as P2O5 (%)	0537	25.70	0.2300	25.04	0.6375	0.3034	50	1.04	020.99	0
020	Total Phosphorus as P2O5 (%)	0421	25.70	0.2000	25.04	0.6375	0.3034	50	1.04	020.50	0
020	Total Phosphorus as P2O5 (%)	0482	25.75	0.7000	25.04	0.6375	0.3034	50	1.12	020.50	0
020	Total Phosphorus as P2O5 (%)	0451	25.91	0.6700	25.04	0.6375	0.3034	50	1.36	020.50	0
020	Total Phosphorus as P2O5 (%)	0402	26.19	0.0900	25.04	0.6375	0.3034	50	1.80	020.50	0
020	Total Phosphorus as P2O5 (%)	0483	26.58	0.4600	25.04	0.6375	0.3034	50	2.42	020.50	0
020	Total Phosphorus as P2O5 (%)	0527	26.64	0.0700	25.04	0.6375	0.3034	50	2.51	020.50	0
020	Total Phosphorus as P2O5 (%)	0042	26.95	1.530	25.04	0.6375	0.3034	50	3.00	020.50	0
020	Total Phosphorus as P2O5 (%)	0307	27.16	1.840	25.04	0.6375	0.3034	50	3.33	020.50	0
020	Total Phosphorus as P2O5 (%)	0500	26.81	4.020	25.04	0.6375	0.3034	50	2.78	020.10	1
020	Total Phosphorus as P2O5 (%)	0515	37.12	1.246	25.04	0.6375	0.3034	50	18.96	020.99	2
030	Citrate Insoluble Phosphorus as P2O5 (%)	0096	0.0150	0.0100				1		030.40	0
040	Indirect Available Phosphorus as P2O5 (25%)	0405	24.66	0.0400	24.78	0.1343	0.0700	3	-0.89	040.20	0
040	Indirect Available Phosphorus as P2O5 (25%)	0394	24.76	0.0800	24.78	0.1343	0.0700	3	-0.19	040.99	0
040	Indirect Available Phosphorus as P2O5 (25%)	0096	24.93	0.0900	24.78	0.1343	0.0700	3	1.08	040.40	0
041	Direct Available Phosphorus as P2O5 (25%)	0472	23.24*	0.7200	25.01	0.5349	0.2146	48	-3.32	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0230	23.30*	0.4000	25.01	0.5349	0.2146	48	-3.20	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0027	23.43*	0.3900	25.01	0.5349	0.2146	48	-2.97	041.20	0
041	Direct Available Phosphorus as P2O5 (25%)	0177	23.66*	0.2743	25.01	0.5349	0.2146	48	-2.53	041.10	0
041	Direct Available Phosphorus as P2O5 (25%)	0325	24.10*	0.6000	25.01	0.5349	0.2146	48	-1.71	041.50	0
041	Direct Available Phosphorus as P2O5 (25%)	0522	24.29	0.0300	25.01	0.5349	0.2146	48	-1.36	041.21	0
041	Direct Available Phosphorus as P2O5 (25%)	0397	24.48	0.0300	25.01	0.5349	0.2146	48	-1.01	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0070	24.48	0.2200	25.01	0.5349	0.2146	48	-1.00	041.50	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				
041	Direct Available Phosphorus as P2O5 (25%)	0049	24.58	0.1500	25.01	0.5349	0.2146	48	-0.82	041.10	0
041	Direct Available Phosphorus as P2O5 (25%)	0105	24.63	0.3000	25.01	0.5349	0.2146	48	-0.72	041.11	0
041	Direct Available Phosphorus as P2O5 (25%)	0055	24.68	0.1400	25.01	0.5349	0.2146	48	-0.62	041.10	0
041	Direct Available Phosphorus as P2O5 (25%)	0043	24.69	0.1300	25.01	0.5349	0.2146	48	-0.62	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0177	24.77	0.0689	25.01	0.5349	0.2146	48	-0.46	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0105	24.82	0.2800	25.01	0.5349	0.2146	48	-0.36	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0513	24.83	0.0600	25.01	0.5349	0.2146	48	-0.34	041.11	0
041	Direct Available Phosphorus as P2O5 (25%)	0377	24.83	0.1600	25.01	0.5349	0.2146	48	-0.34	041.51	0
041	Direct Available Phosphorus as P2O5 (25%)	0040	24.85	0.1000	25.01	0.5349	0.2146	48	-0.31	041.10	0
041	Direct Available Phosphorus as P2O5 (25%)	0018	24.85	0.1000	25.01	0.5349	0.2146	48	-0.31	041.40	0
041	Direct Available Phosphorus as P2O5 (25%)	0073	24.86	0.1100	25.01	0.5349	0.2146	48	-0.30	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0086	24.87	0.1231	25.01	0.5349	0.2146	48	-0.26	041.10	0
041	Direct Available Phosphorus as P2O5 (25%)	0486	24.89	0.0600	25.01	0.5349	0.2146	48	-0.23	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0231	24.90	0.1300	25.01	0.5349	0.2146	48	-0.22	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0494	24.96	0.0100	25.01	0.5349	0.2146	48	-0.11	041.10	0
041	Direct Available Phosphorus as P2O5 (25%)	0494	24.96	0.3600	25.01	0.5349	0.2146	48	-0.10	041.51	0
041	Direct Available Phosphorus as P2O5 (25%)	0220	24.98	0.0800	25.01	0.5349	0.2146	48	-0.06	041.11	0
041	Direct Available Phosphorus as P2O5 (25%)	0532	25.01	0.0600	25.01	0.5349	0.2146	48	-0.01	041.99	0
041	Direct Available Phosphorus as P2O5 (25%)	0533	25.02	0.0900	25.01	0.5349	0.2146	48	0.00	041.99	0
041	Direct Available Phosphorus as P2O5 (25%)	0043	25.07	0.9700	25.01	0.5349	0.2146	48	0.09	041.50	0
041	Direct Available Phosphorus as P2O5 (25%)	0360	25.07	0.3200	25.01	0.5349	0.2146	48	0.10	041.51	0
041	Direct Available Phosphorus as P2O5 (25%)	0034	25.09	0.2783	25.01	0.5349	0.2146	48	0.14	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0025	25.11	0.4700	25.01	0.5349	0.2146	48	0.17	041.51	0
041	Direct Available Phosphorus as P2O5 (25%)	0136	25.15	0.1000	25.01	0.5349	0.2146	48	0.25	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0485	25.25	0.0700	25.01	0.5349	0.2146	48	0.43	041.11	0
041	Direct Available Phosphorus as P2O5 (25%)	0531	25.25	0.0800	25.01	0.5349	0.2146	48	0.44	041.99	0
041	Direct Available Phosphorus as P2O5 (25%)	0291	25.41	0.0100	25.01	0.5349	0.2146	48	0.73	041.50	0
041	Direct Available Phosphorus as P2O5 (25%)	0535	25.45	0.0400	25.01	0.5349	0.2146	48	0.81	041.20	0
041	Direct Available Phosphorus as P2O5 (25%)	0535	25.45	0.1000	25.01	0.5349	0.2146	48	0.81	041.21	0
041	Direct Available Phosphorus as P2O5 (25%)	0535	25.49	0.0500	25.01	0.5349	0.2146	48	0.88	041.99	0
041	Direct Available Phosphorus as P2O5 (25%)	0539	25.52	0.0400	25.01	0.5349	0.2146	48	0.95	041.99	0
041	Direct Available Phosphorus as P2O5 (25%)	0354	25.56	0.1490	25.01	0.5349	0.2146	48	1.01	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0518	25.60	0.4000	25.01	0.5349	0.2146	48	1.10	041.99	0
041	Direct Available Phosphorus as P2O5 (25%)	0536	25.60	0.2000	25.01	0.5349	0.2146	48	1.10	041.99	0
041	Direct Available Phosphorus as P2O5 (25%)	0055	25.64	0.0500	25.01	0.5349	0.2146	48	1.16	041.60	0
041	Direct Available Phosphorus as P2O5 (25%)	0117	25.65	0.3400	25.01	0.5349	0.2146	48	1.19	041.51	0
041	Direct Available Phosphorus as P2O5 (25%)	0538	25.66	0.0700	25.01	0.5349	0.2146	48	1.20	041.99	0
041	Direct Available Phosphorus as P2O5 (25%)	0540	26.13	0.1500	25.01	0.5349	0.2146	48	2.08	041.99	0
041	Direct Available Phosphorus as P2O5 (25%)	0007	26.19	0.7900	25.01	0.5349	0.2146	48	2.19	041.50	0
041	Direct Available Phosphorus as P2O5 (25%)	0368	26.53	0.4481	25.01	0.5349	0.2146	48	2.83	041.50	0
041	Direct Available Phosphorus as P2O5 (25%)	0452	27.26	3.980	25.01	0.5349	0.2146	48	4.20	041.50	1
041	Direct Available Phosphorus as P2O5 (25%)	0137	38.99	0.1200	25.01	0.5349	0.2146	48	26.13	041.50	2
048	Water Soluble Phosphorus as P2O5 (%)	0415	24.03	0.0193	24.69	0.4970	0.0739	5	-1.32	048.20	0

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048	Water Soluble Phosphorus as P2O5 (%)	0513	24.46	0.0400	24.69	0.4970	0.0739	5	-0.47	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0096	24.76	0.1500	24.69	0.4970	0.0739	5	0.13	048.40	0
048	Water Soluble Phosphorus as P2O5 (%)	0444	24.83	0.1500	24.69	0.4970	0.0739	5	0.27	048.10	0
048	Water Soluble Phosphorus as P2O5 (%)	0444	25.39	0.0100	24.69	0.4970	0.0739	5	1.39	048.50	0
050	Soluble Potassium as K2O (40%)	0137	24.78*	0.1400	40.47	1.040	0.3543	85	-15.08	050.52	0
050	Soluble Potassium as K2O (40%)	0472	35.68*	1.430	40.47	1.040	0.3543	85	-4.60	050.31	0
050	Soluble Potassium as K2O (40%)	0292	36.69*	0.0100	40.47	1.040	0.3543	85	-3.63	050.50	0
050	Soluble Potassium as K2O (40%)	0402	36.81*	0.1200	40.47	1.040	0.3543	85	-3.51	050.99	0
050	Soluble Potassium as K2O (40%)	0390	36.99*	1.180	40.47	1.040	0.3543	85	-3.34	050.50	0
050	Soluble Potassium as K2O (40%)	0543	38.35*	0.0240	40.47	1.040	0.3543	85	-2.04	050.52	0
050	Soluble Potassium as K2O (40%)	0531	38.60*	0.1800	40.47	1.040	0.3543	85	-1.79	050.99	0
050	Soluble Potassium as K2O (40%)	0523	38.95	0.5000	40.47	1.040	0.3543	85	-1.46	050.99	0
050	Soluble Potassium as K2O (40%)	0483	39.03	0.4800	40.47	1.040	0.3543	85	-1.38	050.51	0
050	Soluble Potassium as K2O (40%)	0324	39.10	0.6000	40.47	1.040	0.3543	85	-1.31	050.50	0
050	Soluble Potassium as K2O (40%)	0040	39.20	0.6000	40.47	1.040	0.3543	85	-1.22	050.30	0
050	Soluble Potassium as K2O (40%)	0096	39.25	0.7000	40.47	1.040	0.3543	85	-1.17	050.99	0
050	Soluble Potassium as K2O (40%)	0494	39.26	0.0500	40.47	1.040	0.3543	85	-1.16	050.00	0
050	Soluble Potassium as K2O (40%)	0500	39.50	0.0000	40.47	1.040	0.3543	85	-0.93	050.99	0
050	Soluble Potassium as K2O (40%)	0433	39.52	0.3100	40.47	1.040	0.3543	85	-0.91	050.99	0
050	Soluble Potassium as K2O (40%)	0476	39.54	0.1406	40.47	1.040	0.3543	85	-0.89	050.99	0
050	Soluble Potassium as K2O (40%)	0105	39.55	0.1800	40.47	1.040	0.3543	85	-0.88	050.62	0
050	Soluble Potassium as K2O (40%)	0444	39.63	0.0700	40.47	1.040	0.3543	85	-0.81	050.50	0
050	Soluble Potassium as K2O (40%)	0421	39.65	0.5000	40.47	1.040	0.3543	85	-0.78	050.99	0
050	Soluble Potassium as K2O (40%)	0234	39.69	0.2600	40.47	1.040	0.3543	85	-0.75	050.99	0
050	Soluble Potassium as K2O (40%)	0371	39.70	0.0000	40.47	1.040	0.3543	85	-0.74	050.99	0
050	Soluble Potassium as K2O (40%)	0389	39.79	0.2400	40.47	1.040	0.3543	85	-0.65	050.99	0
050	Soluble Potassium as K2O (40%)	0070	39.82	0.0400	40.47	1.040	0.3543	85	-0.62	050.51	0
050	Soluble Potassium as K2O (40%)	0518	39.85	0.7000	40.47	1.040	0.3543	85	-0.59	050.99	0
050	Soluble Potassium as K2O (40%)	0510	39.90	0.3932	40.47	1.040	0.3543	85	-0.54	050.60	0
050	Soluble Potassium as K2O (40%)	0508	39.99	0.0700	40.47	1.040	0.3543	85	-0.46	050.99	0
050	Soluble Potassium as K2O (40%)	0482	40.00	1.200	40.47	1.040	0.3543	85	-0.45	050.99	0
050	Soluble Potassium as K2O (40%)	0309	40.02	0.0400	40.47	1.040	0.3543	85	-0.43	050.30	0
050	Soluble Potassium as K2O (40%)	0415	40.09	1.158	40.47	1.040	0.3543	85	-0.36	050.30	0
050	Soluble Potassium as K2O (40%)	0105	40.11	0.1500	40.47	1.040	0.3543	85	-0.35	050.60	0
050	Soluble Potassium as K2O (40%)	0055	40.19	0.1800	40.47	1.040	0.3543	85	-0.26	050.51	0
050	Soluble Potassium as K2O (40%)	0231	40.20	0.1100	40.47	1.040	0.3543	85	-0.26	050.00	0
050	Soluble Potassium as K2O (40%)	0325	40.20	0.4000	40.47	1.040	0.3543	85	-0.26	050.99	0
050	Soluble Potassium as K2O (40%)	0220	40.22	0.0100	40.47	1.040	0.3543	85	-0.24	050.00	0
050	Soluble Potassium as K2O (40%)	0526	40.36	0.8000	40.47	1.040	0.3543	85	-0.10	050.99	0
050	Soluble Potassium as K2O (40%)	0522	40.39	0.0200	40.47	1.040	0.3543	85	-0.07	050.00	0
050	Soluble Potassium as K2O (40%)	0541	40.42	0.1300	40.47	1.040	0.3543	85	-0.05	050.99	0
050	Soluble Potassium as K2O (40%)	0043	40.50	0.2700	40.47	1.040	0.3543	85	0.03	050.99	0
050	Soluble Potassium as K2O (40%)	0169	40.51	0.0700	40.47	1.040	0.3543	85	0.04	050.60	0

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050	Soluble Potassium as K2O (40%)	0416	40.53	0.0000	40.47	1.040	0.3543	85	0.06	050.00	0
050	Soluble Potassium as K2O (40%)	0117	40.56	0.4800	40.47	1.040	0.3543	85	0.09	050.52	0
050	Soluble Potassium as K2O (40%)	0055	40.57	0.7100	40.47	1.040	0.3543	85	0.10	050.00	0
050	Soluble Potassium as K2O (40%)	0368	40.59	0.7251	40.47	1.040	0.3543	85	0.12	050.99	0
050	Soluble Potassium as K2O (40%)	0394	40.59	0.1370	40.47	1.040	0.3543	85	0.12	050.99	0
050	Soluble Potassium as K2O (40%)	0034	40.59	0.4601	40.47	1.040	0.3543	85	0.12	050.62	0
050	Soluble Potassium as K2O (40%)	0405	40.62	0.0300	40.47	1.040	0.3543	85	0.14	050.00	0
050	Soluble Potassium as K2O (40%)	0506	40.65	0.5000	40.47	1.040	0.3543	85	0.18	050.99	0
050	Soluble Potassium as K2O (40%)	0532	40.65	0.5000	40.47	1.040	0.3543	85	0.18	050.99	0
050	Soluble Potassium as K2O (40%)	0444	40.68	0.0300	40.47	1.040	0.3543	85	0.20	050.99	0
050	Soluble Potassium as K2O (40%)	0029	40.68	0.3800	40.47	1.040	0.3543	85	0.21	050.62	0
050	Soluble Potassium as K2O (40%)	0397	40.69	0.0800	40.47	1.040	0.3543	85	0.22	050.50	0
050	Soluble Potassium as K2O (40%)	0529	40.69	0.0000	40.47	1.040	0.3543	85	0.22	050.60	0
050	Soluble Potassium as K2O (40%)	0025	40.72	1.240	40.47	1.040	0.3543	85	0.24	050.52	0
050	Soluble Potassium as K2O (40%)	0494	40.73	0.0800	40.47	1.040	0.3543	85	0.25	050.52	0
050	Soluble Potassium as K2O (40%)	0291	40.75	0.0100	40.47	1.040	0.3543	85	0.27	050.51	0
050	Soluble Potassium as K2O (40%)	0354	40.80	0.1530	40.47	1.040	0.3543	85	0.32	050.52	0
050	Soluble Potassium as K2O (40%)	0049	40.83	0.0300	40.47	1.040	0.3543	85	0.35	050.00	0
050	Soluble Potassium as K2O (40%)	0360	40.83	0.1600	40.47	1.040	0.3543	85	0.35	050.52	0
050	Soluble Potassium as K2O (40%)	0513	40.88	0.1100	40.47	1.040	0.3543	85	0.39	050.62	0
050	Soluble Potassium as K2O (40%)	0136	40.90	0.2000	40.47	1.040	0.3543	85	0.42	050.30	0
050	Soluble Potassium as K2O (40%)	0007	40.95	0.1000	40.47	1.040	0.3543	85	0.47	050.51	0
050	Soluble Potassium as K2O (40%)	0018	40.95	0.3000	40.47	1.040	0.3543	85	0.47	050.62	0
050	Soluble Potassium as K2O (40%)	0533	41.02	0.1400	40.47	1.040	0.3543	85	0.53	050.99	0
050	Soluble Potassium as K2O (40%)	0536	41.05	0.4000	40.47	1.040	0.3543	85	0.56	050.99	0
050	Soluble Potassium as K2O (40%)	0157	41.15	2.100	40.47	1.040	0.3543	85	0.66	050.50	0
050	Soluble Potassium as K2O (40%)	0535	41.16	0.1000	40.47	1.040	0.3543	85	0.67	050.61	0
050	Soluble Potassium as K2O (40%)	0535	41.16	0.0800	40.47	1.040	0.3543	85	0.67	050.99	0
050	Soluble Potassium as K2O (40%)	0177	41.22	0.2282	40.47	1.040	0.3543	85	0.73	050.99	0
050	Soluble Potassium as K2O (40%)	0406	41.27	0.6000	40.47	1.040	0.3543	85	0.77	050.50	0
050	Soluble Potassium as K2O (40%)	0540	41.43	0.1500	40.47	1.040	0.3543	85	0.92	050.99	0
050	Soluble Potassium as K2O (40%)	0356	41.51	0.5800	40.47	1.040	0.3543	85	1.00	050.30	0
050	Soluble Potassium as K2O (40%)	0539	41.55	0.1000	40.47	1.040	0.3543	85	1.04	050.99	0
050	Soluble Potassium as K2O (40%)	0114	41.61	0.8800	40.47	1.040	0.3543	85	1.10	050.00	0
050	Soluble Potassium as K2O (40%)	0451	41.65	0.6800	40.47	1.040	0.3543	85	1.14	050.99	0
050	Soluble Potassium as K2O (40%)	0377	41.68	0.1500	40.47	1.040	0.3543	85	1.16	050.52	0
050	Soluble Potassium as K2O (40%)	0486	41.69	0.6600	40.47	1.040	0.3543	85	1.18	050.52	0
050	Soluble Potassium as K2O (40%)	0307	41.75	0.5200	40.47	1.040	0.3543	85	1.23	050.99	0
050	Soluble Potassium as K2O (40%)	0527	41.83	0.3700	40.47	1.040	0.3543	85	1.31	050.99	0
050	Soluble Potassium as K2O (40%)	0537	41.94	0.1400	40.47	1.040	0.3543	85	1.42	050.99	0
050	Soluble Potassium as K2O (40%)	0538	41.96	0.0400	40.47	1.040	0.3543	85	1.44	050.99	0
050	Soluble Potassium as K2O (40%)	0157	42.15	1.100	40.47	1.040	0.3543	85	1.62	050.30	0
050	Soluble Potassium as K2O (40%)	0521	42.84	0.0000	40.47	1.040	0.3543	85	2.28	050.99	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				
050	Soluble Potassium as K2O (40%)	0452	42.97	0.0300	40.47	1.040	0.3543	85	2.40	050.51	0
050	Soluble Potassium as K2O (40%)	0027	43.01	1.040	40.47	1.040	0.3543	85	2.44	050.99	0
050	Soluble Potassium as K2O (40%)	0090	43.22	0.1600	40.47	1.040	0.3543	85	2.65	050.99	0
050	Soluble Potassium as K2O (40%)	0043	40.39	2.320	40.47	1.040	0.3543	85	-0.07	050.51	1
050	Soluble Potassium as K2O (40%)	0524	41.76	2.480	40.47	1.040	0.3543	85	1.25	050.99	1
050	Soluble Potassium as K2O (40%)	0042	41.96	2.320	40.47	1.040	0.3543	85	1.44	050.99	1
050	Soluble Potassium as K2O (40%)	0230	44.45	2.500	40.47	1.040	0.3543	85	3.83	050.50	1
050	Soluble Potassium as K2O (40%)	0428	4.437*	0.2328	40.47	1.040	0.3543	85	-34.63	050.30	2
050	Soluble Potassium as K2O (40%)	0041	4.980*	0.1400	40.47	1.040	0.3543	85	-34.11	050.60	2
060	Water (Free) (%)	0007	0.1250	0.0300	0.2262	0.0587	0.0324	7	-1.56	060.00	0
060	Water (Free) (%)	0513	0.2050	0.0100	0.2262	0.0587	0.0324	7	-0.33	060.30	0
060	Water (Free) (%)	0416	0.2124	0.0050	0.2262	0.0587	0.0324	7	-0.21	060.00	0
060	Water (Free) (%)	0510	0.2178	0.0018	0.2262	0.0587	0.0324	7	-0.13	060.99	0
060	Water (Free) (%)	0055	0.2500	0.1000	0.2262	0.0587	0.0324	7	0.37	060.99	0
060	Water (Free) (%)	0096	0.2550	0.0300	0.2262	0.0587	0.0324	7	0.44	060.00	0
060	Water (Free) (%)	0513	0.3050	0.0500	0.2262	0.0587	0.0324	7	1.21	060.99	0
101	Acid Soluble Calcium (%)	0521	0.0011	0.0000	0.0171	0.0208	0.0013	6	-0.69	101.32	0
101	Acid Soluble Calcium (%)	0494	0.0042	0.0008	0.0171	0.0208	0.0013	6	-0.55	101.33	0
101	Acid Soluble Calcium (%)	0527	0.0080	0.0020	0.0171	0.0208	0.0013	6	-0.39	101.33	0
101	Acid Soluble Calcium (%)	0096	0.0110	0.0000	0.0171	0.0208	0.0013	6	-0.26	101.30	0
101	Acid Soluble Calcium (%)	0389	0.0300	0.0000	0.0171	0.0208	0.0013	6	0.55	101.99	0
101	Acid Soluble Calcium (%)	0354	0.0835	0.0050	0.0171	0.0208	0.0013	6	2.84	101.30	0
121	Acid Soluble Magnesium (%)	0389	0.0009	0.0004	0.0038	0.0045	0.0003	7	-0.59	121.99	0
121	Acid Soluble Magnesium (%)	0521	0.0011	0.0000	0.0038	0.0045	0.0003	7	-0.55	121.32	0
121	Acid Soluble Magnesium (%)	0524	0.0013	0.0001	0.0038	0.0045	0.0003	7	-0.52	121.99	0
121	Acid Soluble Magnesium (%)	0527	0.0020	0.0000	0.0038	0.0045	0.0003	7	-0.37	121.33	0
121	Acid Soluble Magnesium (%)	0515	0.0025	0.0006	0.0038	0.0045	0.0003	7	-0.27	121.99	0
121	Acid Soluble Magnesium (%)	0354	0.0085	0.0010	0.0038	0.0045	0.0003	7	0.93	121.30	0
121	Acid Soluble Magnesium (%)	0535	0.0279	0.0002	0.0038	0.0045	0.0003	7	4.79	121.00	0
121	Acid Soluble Magnesium (%)	0515	0.0119	0.0045	0.0038	0.0045	0.0003	7	1.59	121.33	1
143	Elemental Sulfur (%)	0389	0.0060	0.0020				1		143.99	0
148	Total Sulfur (%)	0096	0.0054	0.0002	0.0108	0.0075	0.0030	6	-0.65	148.99	0
148	Total Sulfur (%)	0494	0.0058	0.0005	0.0108	0.0075	0.0030	6	-0.61	148.07	0
148	Total Sulfur (%)	0515	0.0059	0.0015	0.0108	0.0075	0.0030	6	-0.59	148.07	0
148	Total Sulfur (%)	0527	0.0120	0.0020	0.0108	0.0075	0.0030	6	0.14	148.07	0
148	Total Sulfur (%)	0354	0.0140	0.0040	0.0108	0.0075	0.0030	6	0.38	148.99	0
148	Total Sulfur (%)	0482	0.0250	0.0100	0.0108	0.0075	0.0030	6	1.68	148.99	0
149	Sulfur - HNO3 soluble (%)	0521	0.0038	0.0000				2		149.04	0
149	Sulfur - HNO3 soluble (%)	0524	0.0055	0.0010				2		149.04	0
151	Acid Soluble Arsenic (ppm)	0444	4.600	0.0000	7.610	1.564	0.2894	15	-1.92	151.30	0
151	Acid Soluble Arsenic (ppm)	0523	5.160	0.0200	7.610	1.564	0.2894	15	-1.57	151.30	0
151	Acid Soluble Arsenic (ppm)	0515	6.233	0.6500	7.610	1.564	0.2894	15	-0.88	151.33	0
151	Acid Soluble Arsenic (ppm)	0368	6.750	0.3000	7.610	1.564	0.2894	15	-0.55	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)	0220	7.150	0.3000	7.610	1.564	0.2894	15	-0.29	151.99	0
151	Acid Soluble Arsenic (ppm)	0476	7.233	0.4974	7.610	1.564	0.2894	15	-0.24	151.99	0
151	Acid Soluble Arsenic (ppm)	0529	7.360	0.0400	7.610	1.564	0.2894	15	-0.16	151.30	0
151	Acid Soluble Arsenic (ppm)	0136	7.600	0.2000	7.610	1.564	0.2894	15	-0.01	151.00	0
151	Acid Soluble Arsenic (ppm)	0117	7.820	1.448	7.610	1.564	0.2894	15	0.13	151.33	0
151	Acid Soluble Arsenic (ppm)	0515	8.106	0.0940	7.610	1.564	0.2894	15	0.32	151.34	0
151	Acid Soluble Arsenic (ppm)	0394	8.402	0.2770	7.610	1.564	0.2894	15	0.51	151.30	0
151	Acid Soluble Arsenic (ppm)	0527	8.738	0.0090	7.610	1.564	0.2894	15	0.72	151.33	0
151	Acid Soluble Arsenic (ppm)	0494	8.800	0.2563	7.610	1.564	0.2894	15	0.76	151.33	0
151	Acid Soluble Arsenic (ppm)	0096	9.500	0.2000	7.610	1.564	0.2894	15	1.21	151.30	0
151	Acid Soluble Arsenic (ppm)	0541	9.935	0.0500	7.610	1.564	0.2894	15	1.49	151.30	0
151	Acid Soluble Arsenic (ppm)	0105	21.29	4.170	7.610	1.564	0.2894	15	8.74	151.33	1
165	Acid Soluble Boron (%)	0524	0.0016	0.0001	0.0068	0.0057	0.0010	4	-0.93	165.99	0
165	Acid Soluble Boron (%)	0521	0.0027	0.0000	0.0068	0.0057	0.0010	4	-0.72	165.30	0
165	Acid Soluble Boron (%)	0527	0.0095	0.0010	0.0068	0.0057	0.0010	4	0.47	165.99	0
165	Acid Soluble Boron (%)	0354	0.0135	0.0030	0.0068	0.0057	0.0010	4	1.18	165.30	0
165	Acid Soluble Boron (%)	0515	0.0000	0.0000	0.0068	0.0057	0.0010	4		165.99	4
181	Acid Soluble Cadmium (ppm)	0523	0.0630	0.0000	0.1709	0.1053	0.0415	11	-1.02	181.30	0
181	Acid Soluble Cadmium (ppm)	0524	0.0803	0.0037	0.1709	0.1053	0.0415	11	-0.86	181.30	0
181	Acid Soluble Cadmium (ppm)	0541	0.1050	0.0900	0.1709	0.1053	0.0415	11	-0.63	181.30	0
181	Acid Soluble Cadmium (ppm)	0527	0.1080	0.0000	0.1709	0.1053	0.0415	11	-0.60	181.33	0
181	Acid Soluble Cadmium (ppm)	0494	0.1237	0.0290	0.1709	0.1053	0.0415	11	-0.45	181.33	0
181	Acid Soluble Cadmium (ppm)	0394	0.1370	0.0040	0.1709	0.1053	0.0415	11	-0.32	181.30	0
181	Acid Soluble Cadmium (ppm)	0476	0.1539	0.0099	0.1709	0.1053	0.0415	11	-0.16	181.99	0
181	Acid Soluble Cadmium (ppm)	0136	0.2000	0.0000	0.1709	0.1053	0.0415	11	0.28	181.00	0
181	Acid Soluble Cadmium (ppm)	0389	0.2800	0.0200	0.1709	0.1053	0.0415	11	1.04	181.30	0
181	Acid Soluble Cadmium (ppm)	0220	0.3000	0.2000	0.1709	0.1053	0.0415	11	1.23	181.99	0
181	Acid Soluble Cadmium (ppm)	0535	1.550	0.1000	0.1709	0.1053	0.0415	11	13.10	181.99	0
181	Acid Soluble Cadmium (ppm)	0506	3.240	0.6000	0.1709	0.1053	0.0415	11	29.16	181.99	1
181	Acid Soluble Cadmium (ppm)	0368	0.0000	0.0000	0.1709	0.1053	0.0415	11		181.30	4
181	Acid Soluble Cadmium (ppm)	0515	0.0000	0.0000	0.1709	0.1053	0.0415	11		181.33	4
181	Acid Soluble Cadmium (ppm)	0515	0.0000	0.0000	0.1709	0.1053	0.0415	11		181.34	4
190	Water Soluble Chlorine (%)	0105	0.4300	0.0000				1		190.00	0
191	Acid Soluble Chromium (ppm)	0529	1.485	0.0300	3.421	1.390	0.4196	14	-1.39	191.30	0
191	Acid Soluble Chromium (ppm)	0494	1.491	0.3468	3.421	1.390	0.4196	14	-1.39	191.33	0
191	Acid Soluble Chromium (ppm)	0096	1.850	0.3000	3.421	1.390	0.4196	14	-1.13	191.30	0
191	Acid Soluble Chromium (ppm)	0444	2.405	0.7700	3.421	1.390	0.4196	14	-0.73	191.30	0
191	Acid Soluble Chromium (ppm)	0506	2.745	0.1900	3.421	1.390	0.4196	14	-0.49	191.99	0
191	Acid Soluble Chromium (ppm)	0368	3.300	0.8000	3.421	1.390	0.4196	14	-0.09	191.30	0
191	Acid Soluble Chromium (ppm)	0394	3.795	0.3500	3.421	1.390	0.4196	14	0.27	191.30	0
191	Acid Soluble Chromium (ppm)	0220	3.800	0.4000	3.421	1.390	0.4196	14	0.27	191.99	0
191	Acid Soluble Chromium (ppm)	0515	4.017	0.6310	3.421	1.390	0.4196	14	0.43	191.34	0
191	Acid Soluble Chromium (ppm)	0527	4.195	0.1790	3.421	1.390	0.4196	14	0.56	191.33	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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191	Acid Soluble Chromium (ppm)	0476	4.343	0.2499	3.421	1.390	0.4196	14	0.66	191.99	0
191	Acid Soluble Chromium (ppm)	0482	4.600	0.2000	3.421	1.390	0.4196	14	0.85	191.30	0
191	Acid Soluble Chromium (ppm)	0515	4.795	1.047	3.421	1.390	0.4196	14	0.99	191.33	0
191	Acid Soluble Chromium (ppm)	0389	5.070	0.3800	3.421	1.390	0.4196	14	1.19	191.30	0
191	Acid Soluble Chromium (ppm)	0541	5.400	3.600	3.421	1.390	0.4196	14	1.42	191.30	1
202	Acid Soluble Cobalt (ppm)	0515	0.0475	0.0330	0.3558	0.3017	0.0917	10	-0.95	202.34	0
202	Acid Soluble Cobalt (ppm)	0389	0.1450	0.0100	0.3558	0.3017	0.0917	10	-0.65	202.30	0
202	Acid Soluble Cobalt (ppm)	0527	0.1620	0.0080	0.3558	0.3017	0.0917	10	-0.60	202.33	0
202	Acid Soluble Cobalt (ppm)	0529	0.1900	0.0200	0.3558	0.3017	0.0917	10	-0.51	202.30	0
202	Acid Soluble Cobalt (ppm)	0476	0.2581	0.0198	0.3558	0.3017	0.0917	10	-0.30	202.99	0
202	Acid Soluble Cobalt (ppm)	0494	0.3225	0.1149	0.3558	0.3017	0.0917	10	-0.10	202.33	0
202	Acid Soluble Cobalt (ppm)	0368	0.3500	0.3000	0.3558	0.3017	0.0917	10	-0.02	202.30	0
202	Acid Soluble Cobalt (ppm)	0524	0.4664	0.0209	0.3558	0.3017	0.0917	10	0.34	202.30	0
202	Acid Soluble Cobalt (ppm)	0506	1.505	0.2900	0.3558	0.3017	0.0917	10	3.54	202.99	0
202	Acid Soluble Cobalt (ppm)	0535	10.55	0.1000	0.3558	0.3017	0.0917	10	31.42	202.99	0
202	Acid Soluble Cobalt (ppm)	0515	0.0000	0.0000	0.3558	0.3017	0.0917	10		202.33	4
221	Acid Soluble Copper (%)	0527	0.0001	0.0000	0.0003	0.0001	0.0001	15	-1.42	221.33	0
221	Acid Soluble Copper (%)	0096	0.0002	0.0000	0.0003	0.0001	0.0001	15	-0.70	221.30	0
221	Acid Soluble Copper (%)	0521	0.0002	0.0000	0.0003	0.0001	0.0001	15	-0.70	221.32	0
221	Acid Soluble Copper (%)	0220	0.0002	0.0000	0.0003	0.0001	0.0001	15	-0.70	221.99	0
221	Acid Soluble Copper (%)	0524	0.0002	0.0000	0.0003	0.0001	0.0001	15	-0.70	221.99	0
221	Acid Soluble Copper (%)	0541	0.0003	0.0003	0.0003	0.0001	0.0001	15	-0.34	221.30	0
221	Acid Soluble Copper (%)	0494	0.0003	0.0001	0.0003	0.0001	0.0001	15	-0.34	221.33	0
221	Acid Soluble Copper (%)	0043	0.0003	0.0000	0.0003	0.0001	0.0001	15	0.02	221.00	0
221	Acid Soluble Copper (%)	0535	0.0003	0.0000	0.0003	0.0001	0.0001	15	0.02	221.00	0
221	Acid Soluble Copper (%)	0389	0.0003	0.0000	0.0003	0.0001	0.0001	15	0.02	221.99	0
221	Acid Soluble Copper (%)	0515	0.0003	0.0000	0.0003	0.0001	0.0001	15	0.02	221.99	0
221	Acid Soluble Copper (%)	0394	0.0004	0.0001	0.0003	0.0001	0.0001	15	0.38	221.32	0
221	Acid Soluble Copper (%)	0433	0.0005	0.0002	0.0003	0.0001	0.0001	15	1.46	221.30	0
221	Acid Soluble Copper (%)	0476	0.0005	0.0000	0.0003	0.0001	0.0001	15	1.46	221.99	0
221	Acid Soluble Copper (%)	0515	0.0006	0.0001	0.0003	0.0001	0.0001	15	1.82	221.33	0
221	Acid Soluble Copper (%)	0354	0.0030	0.0000	0.0003	0.0001	0.0001	15	19.48	221.30	2
221	Acid Soluble Copper (%)	0368	0.0003	0.0005	0.0003	0.0001	0.0001	15		221.99	4
241	Acid Soluble Iron (%)	0524	0.0024	0.0000	0.0050	0.0030	0.0011	10	-0.82	241.99	0
241	Acid Soluble Iron (%)	0527	0.0030	0.0000	0.0050	0.0030	0.0011	10	-0.64	241.33	0
241	Acid Soluble Iron (%)	0535	0.0033	0.0005	0.0050	0.0030	0.0011	10	-0.56	241.00	0
241	Acid Soluble Iron (%)	0389	0.0034	0.0005	0.0050	0.0030	0.0011	10	-0.53	241.99	0
241	Acid Soluble Iron (%)	0117	0.0037	0.0008	0.0050	0.0030	0.0011	10	-0.42	241.33	0
241	Acid Soluble Iron (%)	0494	0.0041	0.0005	0.0050	0.0030	0.0011	10	-0.31	241.33	0
241	Acid Soluble Iron (%)	0515	0.0051	0.0033	0.0050	0.0030	0.0011	10	0.00	241.33	0
241	Acid Soluble Iron (%)	0521	0.0066	0.0000	0.0050	0.0030	0.0011	10	0.49	241.32	0
241	Acid Soluble Iron (%)	0354	0.0095	0.0010	0.0050	0.0030	0.0011	10	1.39	241.30	0
241	Acid Soluble Iron (%)	0515	0.0156	0.0044	0.0050	0.0030	0.0011	10	3.29	241.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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251	Acid Soluble Lead (ppm)	0524	0.0606	0.0024	0.5953	0.7600	0.1524	9	-0.70	251.30	0
251	Acid Soluble Lead (ppm)	0527	0.0660	0.0080	0.5953	0.7600	0.1524	9	-0.70	251.33	0
251	Acid Soluble Lead (ppm)	0529	0.0950	0.0100	0.5953	0.7600	0.1524	9	-0.66	251.32	0
251	Acid Soluble Lead (ppm)	0476	0.1697	0.0199	0.5953	0.7600	0.1524	9	-0.56	251.99	0
251	Acid Soluble Lead (ppm)	0494	0.2061	0.0215	0.5953	0.7600	0.1524	9	-0.51	251.33	0
251	Acid Soluble Lead (ppm)	0220	0.4500	0.3000	0.5953	0.7600	0.1524	9	-0.19	251.99	0
251	Acid Soluble Lead (ppm)	0136	1.000	0.0000	0.5953	0.7600	0.1524	9	0.53	251.00	0
251	Acid Soluble Lead (ppm)	0506	1.575	0.9100	0.5953	0.7600	0.1524	9	1.29	251.99	0
251	Acid Soluble Lead (ppm)	0535	15.35	0.1000	0.5953	0.7600	0.1524	9	19.41	251.99	0
251	Acid Soluble Lead (ppm)	0368	0.0000	0.0000	0.5953	0.7600	0.1524	9		251.30	4
251	Acid Soluble Lead (ppm)	0389	0.0000	0.0000	0.5953	0.7600	0.1524	9		251.30	4
251	Acid Soluble Lead (ppm)	0394	0.0000	0.0000	0.5953	0.7600	0.1524	9		251.30	4
251	Acid Soluble Lead (ppm)	0515	0.0000	0.0000	0.5953	0.7600	0.1524	9		251.33	4
251	Acid Soluble Lead (ppm)	0515	0.0000	0.0000	0.5953	0.7600	0.1524	9		251.34	4
251	Acid Soluble Lead (ppm)	0541	8.280	16.56	0.5953	0.7600	0.1524	9		251.30	4
261	Acid Soluble Manganese (%)	0354	0.0000	0.0000				10		261.30	9
261	Acid Soluble Manganese (%)	0515	0.0000	0.0000				10		261.35	9
261	Acid Soluble Manganese (%)	0515	0.0000	0.0000				10		261.99	9
261	Acid Soluble Manganese (%)	0535	0.0004	0.0001				10		261.12	9
261	Acid Soluble Manganese (%)	0389	0.0004	0.0001				10		261.99	9
261	Acid Soluble Manganese (%)	0096	0.0004	0.0000				10		261.30	9
261	Acid Soluble Manganese (%)	0521	0.0004	0.0000				10		261.34	9
261	Acid Soluble Manganese (%)	0527	0.0004	0.0000				10		261.35	9
261	Acid Soluble Manganese (%)	0524	0.0004	0.0000				10		261.99	9
261	Acid Soluble Manganese (%)	0494	0.0005	0.0001				10		261.35	9
271	Water Soluble Manganese (%)	0535	0.0003	0.0001				1		271.00	0
281	Acid Soluble Mercury (ppm)	0394	0.0054	0.0003	0.3635	0.5773	0.6758	3	-0.62	281.30	0
281	Acid Soluble Mercury (ppm)	0476	0.0556	0.0060	0.3635	0.5773	0.6758	3	-0.53	281.99	0
281	Acid Soluble Mercury (ppm)	0541	1.030	2.021	0.3635	0.5773	0.6758	3	1.15	281.30	0
281	Acid Soluble Mercury (ppm)	0515	0.0000	0.0000	0.3635	0.5773	0.6758	3		281.30	4
289	Acid Soluble Molybdenum (ppm)	0394	0.2890	0.0440	0.7607	0.3684	0.2889	12	-1.28	289.32	0
289	Acid Soluble Molybdenum (ppm)	0220	0.4500	0.1000	0.7607	0.3684	0.2889	12	-0.84	289.99	0
289	Acid Soluble Molybdenum (ppm)	0433	0.5114	0.0510	0.7607	0.3684	0.2889	12	-0.68	289.30	0
289	Acid Soluble Molybdenum (ppm)	0506	0.5600	0.4200	0.7607	0.3684	0.2889	12	-0.54	289.99	0
289	Acid Soluble Molybdenum (ppm)	0524	0.6275	0.0214	0.7607	0.3684	0.2889	12	-0.36	289.30	0
289	Acid Soluble Molybdenum (ppm)	0515	0.6425	0.0030	0.7607	0.3684	0.2889	12	-0.32	289.34	0
289	Acid Soluble Molybdenum (ppm)	0368	0.7000	1.200	0.7607	0.3684	0.2889	12	-0.16	289.30	0
289	Acid Soluble Molybdenum (ppm)	0494	0.7728	0.0913	0.7607	0.3684	0.2889	12	0.03	289.33	0
289	Acid Soluble Molybdenum (ppm)	0527	0.9455	0.0430	0.7607	0.3684	0.2889	12	0.50	289.33	0
289	Acid Soluble Molybdenum (ppm)	0541	1.004	0.0070	0.7607	0.3684	0.2889	12	0.66	289.30	0
289	Acid Soluble Molybdenum (ppm)	0521	1.627	0.0000	0.7607	0.3684	0.2889	12	2.35	289.30	0
289	Acid Soluble Molybdenum (ppm)	0476	8.437	1.486	0.7607	0.3684	0.2889	12	20.84	289.99	0
289	Acid Soluble Molybdenum (ppm)	0515	0.2949	0.5897	0.7607	0.3684	0.2889	12		289.33	4

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				
291	Acid Soluble Nickel (ppm)	0521	0.6042	0.0000	1.443	0.6891	0.2196	14	-1.22	291.30	0
291	Acid Soluble Nickel (ppm)	0105	0.9060	0.1260	1.443	0.6891	0.2196	14	-0.78	291.33	0
291	Acid Soluble Nickel (ppm)	0524	0.9310	0.0129	1.443	0.6891	0.2196	14	-0.74	291.30	0
291	Acid Soluble Nickel (ppm)	0515	0.9380	0.0221	1.443	0.6891	0.2196	14	-0.73	291.34	0
291	Acid Soluble Nickel (ppm)	0529	1.065	0.0100	1.443	0.6891	0.2196	14	-0.55	291.30	0
291	Acid Soluble Nickel (ppm)	0394	1.080	0.1200	1.443	0.6891	0.2196	14	-0.53	291.30	0
291	Acid Soluble Nickel (ppm)	0527	1.103	0.0110	1.443	0.6891	0.2196	14	-0.49	291.33	0
291	Acid Soluble Nickel (ppm)	0096	1.300	0.0000	1.443	0.6891	0.2196	14	-0.21	291.30	0
291	Acid Soluble Nickel (ppm)	0220	1.550	0.1000	1.443	0.6891	0.2196	14	0.15	291.99	0
291	Acid Soluble Nickel (ppm)	0541	1.775	0.6300	1.443	0.6891	0.2196	14	0.48	291.30	0
291	Acid Soluble Nickel (ppm)	0136	2.000	0.2000	1.443	0.6891	0.2196	14	0.81	291.00	0
291	Acid Soluble Nickel (ppm)	0368	2.000	0.8000	1.443	0.6891	0.2196	14	0.81	291.30	0
291	Acid Soluble Nickel (ppm)	0476	3.846	0.7429	1.443	0.6891	0.2196	14	3.49	291.99	0
291	Acid Soluble Nickel (ppm)	0535	4.650	0.3000	1.443	0.6891	0.2196	14	4.65	291.99	0
291	Acid Soluble Nickel (ppm)	0506	20.60	5.600	1.443	0.6891	0.2196	14	27.80	291.99	1
291	Acid Soluble Nickel (ppm)	0515	0.5580	1.116	1.443	0.6891	0.2196	14		291.33	4
301	Acid Soluble Selenium (ppm)	0529	0.0450	0.0100	0.1382	0.1575	0.0447	5	-0.52	301.30	0
301	Acid Soluble Selenium (ppm)	0394	0.0455	0.0050	0.1382	0.1575	0.0447	5	-0.51	301.30	0
301	Acid Soluble Selenium (ppm)	0476	0.0715	0.0000	0.1382	0.1575	0.0447	5	-0.37	301.99	0
301	Acid Soluble Selenium (ppm)	0527	0.1135	0.0250	0.1382	0.1575	0.0447	5	-0.14	301.33	0
301	Acid Soluble Selenium (ppm)	0515	0.4155	0.1835	0.1382	0.1575	0.0447	5	1.54	301.34	0
301	Acid Soluble Selenium (ppm)	0524	3.180	1.140	0.1382	0.1575	0.0447	5	16.86	301.30	1
301	Acid Soluble Selenium (ppm)	0368	0.0000	0.0000	0.1382	0.1575	0.0447	5		301.30	4
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	0.1382	0.1575	0.0447	5		301.33	4
301	Acid Soluble Selenium (ppm)	0541	0.0170	0.0340	0.1382	0.1575	0.0447	5		301.30	4
311	Sodium (%)	0494	0.2687	0.0174	0.2924	0.0270	0.0087	6	-0.78	311.33	0
311	Sodium (%)	0527	0.2755	0.0030	0.2924	0.0270	0.0087	6	-0.56	311.33	0
311	Sodium (%)	0521	0.2772	0.0000	0.2924	0.0270	0.0087	6	-0.50	311.32	0
311	Sodium (%)	0096	0.3000	0.0000	0.2924	0.0270	0.0087	6	0.25	311.99	0
311	Sodium (%)	0482	0.3000	0.0200	0.2924	0.0270	0.0087	6	0.25	311.99	0
311	Sodium (%)	0354	0.3470	0.0120	0.2924	0.0270	0.0087	6	1.80	311.99	0
321	Acid Soluble Zinc (%)	0527	0.0010	0.0000	0.0021	0.0010	0.0002	19	-1.13	321.33	0
321	Acid Soluble Zinc (%)	0533	0.0012	0.0001	0.0021	0.0010	0.0002	19	-0.98	321.00	0
321	Acid Soluble Zinc (%)	0535	0.0013	0.0001	0.0021	0.0010	0.0002	19	-0.87	321.00	0
321	Acid Soluble Zinc (%)	0515	0.0013	0.0002	0.0021	0.0010	0.0002	19	-0.82	321.33	0
321	Acid Soluble Zinc (%)	0389	0.0015	0.0001	0.0021	0.0010	0.0002	19	-0.67	321.99	0
321	Acid Soluble Zinc (%)	0521	0.0015	0.0000	0.0021	0.0010	0.0002	19	-0.62	321.32	0
321	Acid Soluble Zinc (%)	0515	0.0016	0.0001	0.0021	0.0010	0.0002	19	-0.56	321.99	0
321	Acid Soluble Zinc (%)	0524	0.0016	0.0000	0.0021	0.0010	0.0002	19	-0.51	321.99	0
321	Acid Soluble Zinc (%)	0494	0.0017	0.0002	0.0021	0.0010	0.0002	19	-0.41	321.33	0
321	Acid Soluble Zinc (%)	0523	0.0020	0.0000	0.0021	0.0010	0.0002	19	-0.10	321.99	0
321	Acid Soluble Zinc (%)	0531	0.0021	0.0001	0.0021	0.0010	0.0002	19	-0.05	321.00	0
321	Acid Soluble Zinc (%)	0394	0.0021	0.0001	0.0021	0.0010	0.0002	19	-0.05	321.32	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				
321	Acid Soluble Zinc (%)	0368	0.0022	0.0014	0.0021	0.0010	0.0002	19	0.11	321.99	0
321	Acid Soluble Zinc (%)	0220	0.0023	0.0003	0.0021	0.0010	0.0002	19	0.16	321.99	0
321	Acid Soluble Zinc (%)	0476	0.0030	0.0000	0.0021	0.0010	0.0002	19	0.94	321.99	0
321	Acid Soluble Zinc (%)	0433	0.0032	0.0001	0.0021	0.0010	0.0002	19	1.09	321.30	0
321	Acid Soluble Zinc (%)	0043	0.0035	0.0010	0.0021	0.0010	0.0002	19	1.46	321.00	0
321	Acid Soluble Zinc (%)	0354	0.0050	0.0000	0.0021	0.0010	0.0002	19	3.01	321.30	0
321	Acid Soluble Zinc (%)	0096	0.0064	0.0002	0.0021	0.0010	0.0002	19	4.46	321.30	0
321	Acid Soluble Zinc (%)	0428	0.0326	0.0014	0.0021	0.0010	0.0002	19	31.60	321.00	2
325	Water Soluble Zinc (%)	0535	0.0012	0.0000				1		325.00	0

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier and a 4 flag indicates rejected due to 0 value submitted. A 9 flag indicates a data problem - scores not calculated. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are included for information only (Grey). An offset lab value with an asterix 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.