

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 160911

MAP

Statistical Summary

Analytes: 31

Labs Reporting: 85

Issue Date : 10/31/2016

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 (%)	27	26	10.79	0.3679	10.79		0.3557	0.0872	3.30%		0.0908	2.80%
009	Ammoniacal Plus Nitrate Nitrogen (%)	3	3	11.09	0.2580	11.09		0.2580	0.1862	2.33%		0.1800	2.78%
010	Total Nitrogen (11%)	70	68	10.96	0.2866	10.97	0.5946	0.2437	0.0369	2.22%	2.71%	0.0799	2.79%
020	Total Phosphorus as P2O5 (%)	58	54	51.71	2.246	51.94		0.8390	0.1427	1.62%		0.3907	2.21%
030	Citrate Insoluble Phosphorus as P2O5 (%)	2	2	0.2475	0.1520								
040	Indirect Available Phosphorus as P2O5 (52%)	2	2	51.54	0.1697								
041	Direct Available Phosphorus as P2O5 (52%)	44	43	51.45	1.245	51.61	1.0942	0.8174	0.1558	1.58%	1.06%	0.3589	2.21%
048	Water Soluble Phosphorus as P2O5 (%)	14	13	44.31	6.738	46.44		1.067	0.3700	2.30%		0.3140	2.24%
050	Soluble Potassium as K2O (%)	10	9	0.1498	0.0259	0.1510		0.0265	0.0110	17.53%		0.0029	5.32%
060	Water (Free) (%)	7	6	2.121	0.3164	2.121		0.3588	0.1831	16.92%		0.0167	3.57%
101	Acid Soluble Calcium (%)	14	14	0.3577	0.0545	0.3560		0.0274	0.0091	7.69%		0.0070	4.67%
121	Acid Soluble Magnesium (%)	14	13	0.8110	0.0468	0.8091		0.0460	0.0159	5.69%		0.0203	4.13%
143	Elemental Sulfur (%)	2	2	1.293	0.0605								
148	Total Sulfur (%)	9	9	1.284	0.0800	1.275		0.0668	0.0278	5.24%		0.0374	3.86%
149	Sulfur - HNO3 soluble (%)	2	2	1.359	0.0729								
151	Acid Soluble Arsenic (ppm)	15	15	78.28	15.51	78.99		14.46	4.666	18.30%		4.002	8.29%
165	Acid Soluble Boron (%)	8	7	0.0162	0.0149	0.0160		0.0164	0.0078	102.89%		0.0031	7.46%
171	Water Soluble Boron (%)	1		0.0300									
181	Acid Soluble Cadmium (ppm)	20	18	229.3	19.75	229.1		22.13	6.519	9.66%		5.971	7.06%
191	Acid Soluble Chromium (ppm)	19	19	85.68	13.95	88.46		6.334	1.816	7.16%		2.564	8.15%
202	Acid Soluble Cobalt (ppm)	13	13	2.674	1.219	2.725		1.263	0.4380	46.35%		0.2167	13.76%
221	Acid Soluble Copper (%)	11	6	0.0004	0.0002	0.0004		0.0002	0.0001	45.24%		0.0001	13.03%
241	Acid Soluble Iron (%)	15	15	1.206	0.0889	1.197		0.0803	0.0259	6.71%		0.0168	3.89%
251	Acid Soluble Lead (ppm)	21	20	1,149	326.7	1,212		149.2	41.70	12.31%		26.80	5.49%
261	Acid Soluble Manganese (%)	16	16	0.0391	0.0017	0.0392		0.0019	0.0006	4.77%		0.0006	6.51%
281	Acid Soluble Mercury (ppm)	4	3	56.96	74.33	56.96		74.33	53.64	130.50%		1.610	8.71%
289	Acid Soluble Molybdenum (ppm)	17	16	13.49	1.119	13.49		1.269	0.3967	9.41%		0.3987	10.81%
291	Acid Soluble Nickel (ppm)	18	18	15.90	2.764	15.42		1.123	0.3310	7.28%		0.4571	10.60%
301	Acid Soluble Selenium (ppm)	7	5	4.718	6.354	4.718		6.354	3.552	134.66%		0.2501	12.67%
311	Sodium (%)	7	6	0.1333	0.0311	0.1333		0.0353	0.0180	26.45%		0.0010	5.42%
321	Acid Soluble Zinc (%)	27	25	0.0069	0.0017	0.0068		0.0014	0.0004	21.02%		0.0002	8.47%

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Analyte Proficiency From All Labs

Analytes: 31

Sample # 160911

Lab Values

Labs Reporting: 85

MAP

Issue Date : 10/31/2016

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 (%)	0394	10.00	0.0610	10.79	0.3557	0.0908	26	-2.21	001.99	0
001	Ammoniacal Nitrogen (%)	0415	10.17	0.0027	10.79	0.3557	0.0908	26	-1.73	001.99	0
001	Ammoniacal Nitrogen (%)	0230	10.25	0.1000	10.79	0.3557	0.0908	26	-1.51	001.10	0
001	Ammoniacal Nitrogen (%)	0309	10.31	0.2900	10.79	0.3557	0.0908	26	-1.35	001.10	0
001	Ammoniacal Nitrogen (%)	0456	10.46	0.1200	10.79	0.3557	0.0908	26	-0.92	001.10	0
001	Ammoniacal Nitrogen (%)	0524	10.52	0.0300	10.79	0.3557	0.0908	26	-0.76	001.99	0
001	Ammoniacal Nitrogen (%)	0177	10.57	0.0196	10.79	0.3557	0.0908	26	-0.62	001.10	0
001	Ammoniacal Nitrogen (%)	0231	10.59	0.1800	10.79	0.3557	0.0908	26	-0.55	001.10	0
001	Ammoniacal Nitrogen (%)	0027	10.68	0.0700	10.79	0.3557	0.0908	26	-0.31	001.99	0
001	Ammoniacal Nitrogen (%)	0420	10.68	0.4400	10.79	0.3557	0.0908	26	-0.30	001.99	0
001	Ammoniacal Nitrogen (%)	0506	10.70	0.2000	10.79	0.3557	0.0908	26	-0.24	001.99	0
001	Ammoniacal Nitrogen (%)	0508	10.70	0.1200	10.79	0.3557	0.0908	26	-0.24	001.99	0
001	Ammoniacal Nitrogen (%)	0090	10.79	0.0700	10.79	0.3557	0.0908	26	0.00	001.10	0
001	Ammoniacal Nitrogen (%)	0371	10.96	0.0100	10.79	0.3557	0.0908	26	0.48	001.99	0
001	Ammoniacal Nitrogen (%)	0522	10.97	0.0300	10.79	0.3557	0.0908	26	0.50	001.99	0
001	Ammoniacal Nitrogen (%)	0405	10.99	0.0700	10.79	0.3557	0.0908	26	0.56	001.99	0
001	Ammoniacal Nitrogen (%)	0520	10.99	0.0300	10.79	0.3557	0.0908	26	0.56	001.99	0
001	Ammoniacal Nitrogen (%)	0117	11.00	0.0000	10.79	0.3557	0.0908	26	0.60	001.10	0
001	Ammoniacal Nitrogen (%)	0487	11.00	0.2000	10.79	0.3557	0.0908	26	0.60	001.99	0
001	Ammoniacal Nitrogen (%)	0493	11.00	0.1000	10.79	0.3557	0.0908	26	0.60	001.99	0
001	Ammoniacal Nitrogen (%)	0220	11.02	0.0000	10.79	0.3557	0.0908	26	0.66	001.99	0
001	Ammoniacal Nitrogen (%)	0513	11.06	0.0600	10.79	0.3557	0.0908	26	0.77	001.10	0
001	Ammoniacal Nitrogen (%)	0513	11.07	0.0200	10.79	0.3557	0.0908	26	0.80	001.99	0
001	Ammoniacal Nitrogen (%)	0510	11.17	0.1070	10.79	0.3557	0.0908	26	1.07	001.99	0
001	Ammoniacal Nitrogen (%)	0096	11.18	0.0100	10.79	0.3557	0.0908	26	1.09	001.99	0
001	Ammoniacal Nitrogen (%)	0486	11.67	0.0200	10.79	0.3557	0.0908	26	2.49	001.10	0
001	Ammoniacal Nitrogen (%)	0444	10.65	0.4700	10.79	0.3557	0.0908	26	-0.40	001.10	1
009	Ammoniacal Plus Nitrate Nitrogen (%)	0489	10.80	0.1100	11.09	0.2580	0.1800	3	-1.13	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0513	11.18	0.0200	11.09	0.2580	0.1800	3	0.36	009.99	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0444	11.29	0.4100	11.09	0.2580	0.1800	3	0.77	009.10	0
010	Total Nitrogen (11%)	0394	10.00*	0.0000	10.97	0.2437	0.0799	68	-3.99	010.99	0
010	Total Nitrogen (11%)	0095	10.20*	0.1800	10.97	0.2437	0.0799	68	-3.17	010.60	0
010	Total Nitrogen (11%)	0523	10.40	0.0000	10.97	0.2437	0.0799	68	-2.35	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 (11%)	0356	10.51	0.1800	10.97	0.2437	0.0799	68	-1.90	010.60	0
010	Total Nitrogen (11%)	0073	10.54	0.0900	10.97	0.2437	0.0799	68	-1.80	010.60	0
010	Total Nitrogen (11%)	0324	10.55	0.1000	10.97	0.2437	0.0799	68	-1.73	010.60	0
010	Total Nitrogen (11%)	0309	10.56	0.3400	10.97	0.2437	0.0799	68	-1.69	010.11	0
010	Total Nitrogen (11%)	0325	10.60	0.2000	10.97	0.2437	0.0799	68	-1.53	010.60	0
010	Total Nitrogen (11%)	0472	10.66	0.0200	10.97	0.2437	0.0799	68	-1.28	010.60	0
010	Total Nitrogen (11%)	0102	10.67	0.1100	10.97	0.2437	0.0799	68	-1.26	010.60	0
010	Total Nitrogen (11%)	0007	10.70	0.0000	10.97	0.2437	0.0799	68	-1.12	010.60	0
010	Total Nitrogen (11%)	0230	10.70	0.2000	10.97	0.2437	0.0799	68	-1.12	010.60	0
010	Total Nitrogen (11%)	0506	10.70	0.2000	10.97	0.2437	0.0799	68	-1.12	010.99	0
010	Total Nitrogen (11%)	0456	10.75	0.1900	10.97	0.2437	0.0799	68	-0.93	010.11	0
010	Total Nitrogen (11%)	0211	10.75	0.0400	10.97	0.2437	0.0799	68	-0.91	010.17	0
010	Total Nitrogen (11%)	0351	10.76	0.1872	10.97	0.2437	0.0799	68	-0.88	010.60	0
010	Total Nitrogen (11%)	0451	10.78	0.2900	10.97	0.2437	0.0799	68	-0.81	010.60	0
010	Total Nitrogen (11%)	0354	10.82	0.0110	10.97	0.2437	0.0799	68	-0.63	010.60	0
010	Total Nitrogen (11%)	0489	10.83	0.0500	10.97	0.2437	0.0799	68	-0.61	010.60	0
010	Total Nitrogen (11%)	0368	10.84	0.0010	10.97	0.2437	0.0799	68	-0.56	010.60	0
010	Total Nitrogen (11%)	0260	10.84	0.1800	10.97	0.2437	0.0799	68	-0.55	010.60	0
010	Total Nitrogen (11%)	0041	10.85	0.0600	10.97	0.2437	0.0799	68	-0.50	010.60	0
010	Total Nitrogen (11%)	0508	10.87	0.1300	10.97	0.2437	0.0799	68	-0.44	010.99	0
010	Total Nitrogen (11%)	0043	10.88	0.0200	10.97	0.2437	0.0799	68	-0.38	010.60	0
010	Total Nitrogen (11%)	0029	10.91	0.0000	10.97	0.2437	0.0799	68	-0.26	010.60	0
010	Total Nitrogen (11%)	0521	10.96	0.0000	10.97	0.2437	0.0799	68	-0.04	010.60	0
010	Total Nitrogen (11%)	0027	10.99	0.0450	10.97	0.2437	0.0799	68	0.06	010.60	0
010	Total Nitrogen (11%)	0042	11.00	0.0000	10.97	0.2437	0.0799	68	0.11	010.60	0
010	Total Nitrogen (11%)	0518	11.01	0.1500	10.97	0.2437	0.0799	68	0.13	010.99	0
010	Total Nitrogen (11%)	0105	11.02	0.0300	10.97	0.2437	0.0799	68	0.17	010.11	0
010	Total Nitrogen (11%)	0220	11.02	0.0100	10.97	0.2437	0.0799	68	0.17	010.11	0
010	Total Nitrogen (11%)	0025	11.03	0.0400	10.97	0.2437	0.0799	68	0.23	010.60	0
010	Total Nitrogen (11%)	0105	11.04	0.0100	10.97	0.2437	0.0799	68	0.25	010.60	0
010	Total Nitrogen (11%)	0291	11.04	0.0100	10.97	0.2437	0.0799	68	0.25	010.60	0
010	Total Nitrogen (11%)	0494	11.04	0.0200	10.97	0.2437	0.0799	68	0.28	010.60	0
010	Total Nitrogen (11%)	0371	11.05	0.0100	10.97	0.2437	0.0799	68	0.30	010.11	0
010	Total Nitrogen (11%)	0049	11.05	0.0500	10.97	0.2437	0.0799	68	0.30	010.60	0
010	Total Nitrogen (11%)	0422	11.05	0.0300	10.97	0.2437	0.0799	68	0.30	010.60	0
010	Total Nitrogen (11%)	0524	11.05	0.0200	10.97	0.2437	0.0799	68	0.33	010.99	0
010	Total Nitrogen (11%)	0035	11.06	0.2100	10.97	0.2437	0.0799	68	0.34	010.60	0
010	Total Nitrogen (11%)	0231	11.07	0.0200	10.97	0.2437	0.0799	68	0.40	010.60	0
010	Total Nitrogen (11%)	0405	11.07	0.0200	10.97	0.2437	0.0799	68	0.40	010.60	0
010	Total Nitrogen (11%)	0177	11.08	0.1100	10.97	0.2437	0.0799	68	0.42	010.60	0
010	Total Nitrogen (11%)	0402	11.08	0.0100	10.97	0.2437	0.0799	68	0.42	010.60	0
010	Total Nitrogen (11%)	0233	11.08	0.0200	10.97	0.2437	0.0799	68	0.44	010.60	0
010	Total Nitrogen (11%)	0136	11.09	0.1100	10.97	0.2437	0.0799	68	0.46	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 (11%)	0500	11.09	0.0200	10.97	0.2437	0.0799	68	0.48	010.11	0
010	Total Nitrogen (11%)	0300	11.09	0.0020	10.97	0.2437	0.0799	68	0.49	010.99	0
010	Total Nitrogen (11%)	0157	11.10	0.2000	10.97	0.2437	0.0799	68	0.52	010.60	0
010	Total Nitrogen (11%)	0483	11.10	0.2600	10.97	0.2437	0.0799	68	0.52	010.60	0
010	Total Nitrogen (11%)	0520	11.11	0.1000	10.97	0.2437	0.0799	68	0.56	010.99	0
010	Total Nitrogen (11%)	0055	11.12	0.0740	10.97	0.2437	0.0799	68	0.59	010.60	0
010	Total Nitrogen (11%)	0023	11.14	0.1160	10.97	0.2437	0.0799	68	0.69	010.60	0
010	Total Nitrogen (11%)	0040	11.15	0.1000	10.97	0.2437	0.0799	68	0.73	010.60	0
010	Total Nitrogen (11%)	0482	11.15	0.1000	10.97	0.2437	0.0799	68	0.73	010.60	0
010	Total Nitrogen (11%)	0487	11.15	0.1000	10.97	0.2437	0.0799	68	0.73	010.99	0
010	Total Nitrogen (11%)	0377	11.16	0.0500	10.97	0.2437	0.0799	68	0.75	010.60	0
010	Total Nitrogen (11%)	0096	11.17	0.0200	10.97	0.2437	0.0799	68	0.81	010.60	0
010	Total Nitrogen (11%)	0420	11.17	0.0400	10.97	0.2437	0.0799	68	0.81	010.99	0
010	Total Nitrogen (11%)	0444	11.22	0.2100	10.97	0.2437	0.0799	68	0.99	010.60	0
010	Total Nitrogen (11%)	0360	11.22	0.0200	10.97	0.2437	0.0799	68	1.01	010.60	0
010	Total Nitrogen (11%)	0389	11.25	0.0500	10.97	0.2437	0.0799	68	1.12	010.60	0
010	Total Nitrogen (11%)	0516	11.25	0.1000	10.97	0.2437	0.0799	68	1.14	010.60	0
010	Total Nitrogen (11%)	0510	11.27	0.0030	10.97	0.2437	0.0799	68	1.20	010.11	0
010	Total Nitrogen (11%)	0452	11.30	0.0000	10.97	0.2437	0.0799	68	1.34	010.60	0
010	Total Nitrogen (11%)	0131	11.33	0.0170	10.97	0.2437	0.0799	68	1.45	010.60	0
010	Total Nitrogen (11%)	0421	11.56	0.1000	10.97	0.2437	0.0799	68	2.41	010.60	0
010	Total Nitrogen (11%)	0455	11.78	0.0500	10.97	0.2437	0.0799	68	3.29	010.12	0
010	Total Nitrogen (11%)	0307	10.25*	0.6730	10.97	0.2437	0.0799	68	-2.98	010.60	1
010	Total Nitrogen (11%)	0406	10.72	0.4600	10.97	0.2437	0.0799	68	-1.04	010.60	1
020	Total Phosphorus as P2O5 (%)	0309	39.03	0.0100	51.94	0.8390	0.3907	54	-15.39	020.20	0
020	Total Phosphorus as P2O5 (%)	0157	47.20	0.8000	51.94	0.8390	0.3907	54	-5.65	020.50	0
020	Total Phosphorus as P2O5 (%)	0433	48.56	1.990	51.94	0.8390	0.3907	54	-4.04	020.50	0
020	Total Phosphorus as P2O5 (%)	0506	49.00	1.000	51.94	0.8390	0.3907	54	-3.51	020.20	0
020	Total Phosphorus as P2O5 (%)	0482	50.20	1.000	51.94	0.8390	0.3907	54	-2.07	020.50	0
020	Total Phosphorus as P2O5 (%)	0415	50.36	0.0501	51.94	0.8390	0.3907	54	-1.88	020.20	0
020	Total Phosphorus as P2O5 (%)	0523	50.90	0.2000	51.94	0.8390	0.3907	54	-1.24	020.50	0
020	Total Phosphorus as P2O5 (%)	0371	51.05	0.2300	51.94	0.8390	0.3907	54	-1.07	020.20	0
020	Total Phosphorus as P2O5 (%)	0389	51.12	0.1300	51.94	0.8390	0.3907	54	-0.98	020.50	0
020	Total Phosphorus as P2O5 (%)	0042	51.25	0.5000	51.94	0.8390	0.3907	54	-0.82	020.40	0
020	Total Phosphorus as P2O5 (%)	0421	51.25	0.1000	51.94	0.8390	0.3907	54	-0.82	020.50	0
020	Total Phosphorus as P2O5 (%)	0486	51.34	0.1500	51.94	0.8390	0.3907	54	-0.72	020.40	0
020	Total Phosphorus as P2O5 (%)	0049	51.38	0.5400	51.94	0.8390	0.3907	54	-0.67	020.10	0
020	Total Phosphorus as P2O5 (%)	0456	51.49	0.2700	51.94	0.8390	0.3907	54	-0.54	020.40	0
020	Total Phosphorus as P2O5 (%)	0455	51.53	0.1500	51.94	0.8390	0.3907	54	-0.50	020.99	0
020	Total Phosphorus as P2O5 (%)	0522	51.53	0.7000	51.94	0.8390	0.3907	54	-0.49	020.20	0
020	Total Phosphorus as P2O5 (%)	0405	51.56	0.0500	51.94	0.8390	0.3907	54	-0.46	020.20	0
020	Total Phosphorus as P2O5 (%)	0500	51.68	0.0000	51.94	0.8390	0.3907	54	-0.31	020.10	0
020	Total Phosphorus as P2O5 (%)	0230	51.70	0.2000	51.94	0.8390	0.3907	54	-0.29	020.20	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
020	Total Phosphorus as P2O5 (%)	0394	51.70	0.0000	51.94	0.8390	0.3907	54	-0.29	020.20	0
020	Total Phosphorus as P2O5 (%)	0508	51.73	0.3500	51.94	0.8390	0.3907	54	-0.26	020.50	0
020	Total Phosphorus as P2O5 (%)	0457	51.77	0.7200	51.94	0.8390	0.3907	54	-0.20	020.20	0
020	Total Phosphorus as P2O5 (%)	0513	51.80	0.0700	51.94	0.8390	0.3907	54	-0.17	020.99	0
020	Total Phosphorus as P2O5 (%)	0510	51.87	0.0920	51.94	0.8390	0.3907	54	-0.08	020.20	0
020	Total Phosphorus as P2O5 (%)	0220	51.97	0.2300	51.94	0.8390	0.3907	54	0.03	020.20	0
020	Total Phosphorus as P2O5 (%)	0489	51.98	0.0400	51.94	0.8390	0.3907	54	0.05	020.20	0
020	Total Phosphorus as P2O5 (%)	0493	52.00	0.1000	51.94	0.8390	0.3907	54	0.07	020.10	0
020	Total Phosphorus as P2O5 (%)	0211	52.01	0.1000	51.94	0.8390	0.3907	54	0.08	020.10	0
020	Total Phosphorus as P2O5 (%)	0096	52.01	0.0200	51.94	0.8390	0.3907	54	0.08	020.40	0
020	Total Phosphorus as P2O5 (%)	0472	52.02	1.870	51.94	0.8390	0.3907	54	0.09	020.50	0
020	Total Phosphorus as P2O5 (%)	0500	52.06	0.0000	51.94	0.8390	0.3907	54	0.14	020.40	0
020	Total Phosphorus as P2O5 (%)	0105	52.07	0.1900	51.94	0.8390	0.3907	54	0.15	020.40	0
020	Total Phosphorus as P2O5 (%)	0356	52.10	0.3800	51.94	0.8390	0.3907	54	0.19	020.20	0
020	Total Phosphorus as P2O5 (%)	0231	52.11	0.1700	51.94	0.8390	0.3907	54	0.20	020.20	0
020	Total Phosphorus as P2O5 (%)	0090	52.15	0.2400	51.94	0.8390	0.3907	54	0.25	020.10	0
020	Total Phosphorus as P2O5 (%)	0291	52.16	0.0100	51.94	0.8390	0.3907	54	0.26	020.50	0
020	Total Phosphorus as P2O5 (%)	0157	52.25	0.1000	51.94	0.8390	0.3907	54	0.37	020.10	0
020	Total Phosphorus as P2O5 (%)	0487	52.25	0.1000	51.94	0.8390	0.3907	54	0.37	020.99	0
020	Total Phosphorus as P2O5 (%)	0520	52.26	0.0200	51.94	0.8390	0.3907	54	0.38	020.99	0
020	Total Phosphorus as P2O5 (%)	0368	52.33	0.4404	51.94	0.8390	0.3907	54	0.46	020.50	0
020	Total Phosphorus as P2O5 (%)	0324	52.40	0.0000	51.94	0.8390	0.3907	54	0.55	020.20	0
020	Total Phosphorus as P2O5 (%)	0420	52.50	0.2700	51.94	0.8390	0.3907	54	0.66	020.20	0
020	Total Phosphorus as P2O5 (%)	0444	52.58	0.5500	51.94	0.8390	0.3907	54	0.76	020.10	0
020	Total Phosphorus as P2O5 (%)	0483	52.59	2.060	51.94	0.8390	0.3907	54	0.77	020.50	0
020	Total Phosphorus as P2O5 (%)	0105	52.67	0.2000	51.94	0.8390	0.3907	54	0.87	020.10	0
020	Total Phosphorus as P2O5 (%)	0406	52.75	0.4200	51.94	0.8390	0.3907	54	0.96	020.20	0
020	Total Phosphorus as P2O5 (%)	0402	52.89	0.0300	51.94	0.8390	0.3907	54	1.13	020.50	0
020	Total Phosphorus as P2O5 (%)	0428	52.91	0.1696	51.94	0.8390	0.3907	54	1.15	020.20	0
020	Total Phosphorus as P2O5 (%)	0516	53.13	0.3400	51.94	0.8390	0.3907	54	1.42	020.20	0
020	Total Phosphorus as P2O5 (%)	0451	53.41	2.790	51.94	0.8390	0.3907	54	1.74	020.50	0
020	Total Phosphorus as P2O5 (%)	0027	53.72	0.4800	51.94	0.8390	0.3907	54	2.12	020.20	0
020	Total Phosphorus as P2O5 (%)	0521	55.00	0.0000	51.94	0.8390	0.3907	54	3.65	020.50	0
020	Total Phosphorus as P2O5 (%)	0307	55.10	0.0740	51.94	0.8390	0.3907	54	3.76	020.50	0
020	Total Phosphorus as P2O5 (%)	0422	56.30	0.4000	51.94	0.8390	0.3907	54	5.20	020.50	0
020	Total Phosphorus as P2O5 (%)	0025	51.28	3.840	51.94	0.8390	0.3907	54	-0.79	020.50	1
020	Total Phosphorus as P2O5 (%)	0524	53.31	3.763	51.94	0.8390	0.3907	54	1.63	020.50	1
020	Total Phosphorus as P2O5 (%)	0035	54.77	3.450	51.94	0.8390	0.3907	54	3.37	020.40	1
020	Total Phosphorus as P2O5 (%)	0043	22.73	0.0600	51.94	0.8390	0.3907	54	-34.82	020.10	2
030	Citrate Insoluble Phosphorus as P2O5 (%)	0405	0.1400	0.0000				2		030.20	0
030	Citrate Insoluble Phosphorus as P2O5 (%)	0096	0.3550	0.0900				2		030.40	0
040	Indirect Available Phosphorus as P2O5 (52%)	0405	51.42	0.0500				2		040.20	0
040	Indirect Available Phosphorus as P2O5 (52%)	0096	51.66	0.0700				2		040.40	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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041	Direct Available Phosphorus as P2O5 (52%)	0007	47.75*	1.500	51.61	0.8174	0.3589	43	-4.72	041.50	0
041	Direct Available Phosphorus as P2O5 (52%)	0042	47.85*	0.1000	51.61	0.8174	0.3589	43	-4.60	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0230	48.00*	0.0000	51.61	0.8174	0.3589	43	-4.42	041.99	0
041	Direct Available Phosphorus as P2O5 (52%)	0117	49.84*	0.9900	51.61	0.8174	0.3589	43	-2.17	041.51	0
041	Direct Available Phosphorus as P2O5 (52%)	0486	50.07*	0.3200	51.61	0.8174	0.3589	43	-1.88	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0522	50.44*	0.7200	51.61	0.8174	0.3589	43	-1.43	041.21	0
041	Direct Available Phosphorus as P2O5 (52%)	0027	50.55	0.4500	51.61	0.8174	0.3589	43	-1.30	041.20	0
041	Direct Available Phosphorus as P2O5 (52%)	0472	50.67	0.6700	51.61	0.8174	0.3589	43	-1.16	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0506	50.80	0.4000	51.61	0.8174	0.3589	43	-0.99	041.99	0
041	Direct Available Phosphorus as P2O5 (52%)	0230	50.95	0.9000	51.61	0.8174	0.3589	43	-0.81	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0231	51.05	0.0300	51.61	0.8174	0.3589	43	-0.69	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0177	51.14	0.0243	51.61	0.8174	0.3589	43	-0.58	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0043	51.17	0.0800	51.61	0.8174	0.3589	43	-0.54	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0325	51.45	0.5000	51.61	0.8174	0.3589	43	-0.20	041.50	0
041	Direct Available Phosphorus as P2O5 (52%)	0029	51.51	0.1800	51.61	0.8174	0.3589	43	-0.12	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0494	51.60	0.0600	51.61	0.8174	0.3589	43	-0.01	041.50	0
041	Direct Available Phosphorus as P2O5 (52%)	0177	51.68	0.2268	51.61	0.8174	0.3589	43	0.08	041.10	0
041	Direct Available Phosphorus as P2O5 (52%)	0073	51.73	0.2900	51.61	0.8174	0.3589	43	0.14	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0105	51.73	0.0700	51.61	0.8174	0.3589	43	0.14	041.99	0
041	Direct Available Phosphorus as P2O5 (52%)	0105	51.73	0.0800	51.61	0.8174	0.3589	43	0.15	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0023	51.75	1.810	51.61	0.8174	0.3589	43	0.16	041.51	0
041	Direct Available Phosphorus as P2O5 (52%)	0397	51.75	0.0080	51.61	0.8174	0.3589	43	0.17	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0025	51.77	0.7700	51.61	0.8174	0.3589	43	0.19	041.51	0
041	Direct Available Phosphorus as P2O5 (52%)	0102	51.80	0.0000	51.61	0.8174	0.3589	43	0.23	041.10	0
041	Direct Available Phosphorus as P2O5 (52%)	0055	51.82	0.1000	51.61	0.8174	0.3589	43	0.26	041.11	0
041	Direct Available Phosphorus as P2O5 (52%)	0360	51.85	0.2100	51.61	0.8174	0.3589	43	0.29	041.51	0
041	Direct Available Phosphorus as P2O5 (52%)	0513	51.88	0.0400	51.61	0.8174	0.3589	43	0.33	041.11	0
041	Direct Available Phosphorus as P2O5 (52%)	0041	51.94	0.4500	51.61	0.8174	0.3589	43	0.40	041.10	0
041	Direct Available Phosphorus as P2O5 (52%)	0055	51.98	0.2600	51.61	0.8174	0.3589	43	0.45	041.21	0
041	Direct Available Phosphorus as P2O5 (52%)	0040	52.00	0.2000	51.61	0.8174	0.3589	43	0.48	041.10	0
041	Direct Available Phosphorus as P2O5 (52%)	0354	52.00	0.1490	51.61	0.8174	0.3589	43	0.48	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0518	52.08	0.0500	51.61	0.8174	0.3589	43	0.57	041.99	0
041	Direct Available Phosphorus as P2O5 (52%)	0117	52.10	0.2000	51.61	0.8174	0.3589	43	0.60	041.11	0
041	Direct Available Phosphorus as P2O5 (52%)	0034	52.16	0.3600	51.61	0.8174	0.3589	43	0.67	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0136	52.16	0.2100	51.61	0.8174	0.3589	43	0.67	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0494	52.21	0.2000	51.61	0.8174	0.3589	43	0.73	041.10	0
041	Direct Available Phosphorus as P2O5 (52%)	0377	52.23	0.2500	51.61	0.8174	0.3589	43	0.75	041.51	0
041	Direct Available Phosphorus as P2O5 (52%)	0368	52.35	0.1596	51.61	0.8174	0.3589	43	0.91	041.50	0
041	Direct Available Phosphorus as P2O5 (52%)	0105	52.36	0.2800	51.61	0.8174	0.3589	43	0.92	041.11	0
041	Direct Available Phosphorus as P2O5 (52%)	0452	52.53	0.0500	51.61	0.8174	0.3589	43	1.12	041.50	0
041	Direct Available Phosphorus as P2O5 (52%)	0485	52.81	0.2571	51.61	0.8174	0.3589	43	1.47	041.11	0
041	Direct Available Phosphorus as P2O5 (52%)	0233	53.52	1.660	51.61	0.8174	0.3589	43	2.34	041.50	0
041	Direct Available Phosphorus as P2O5 (52%)	0131	53.54	0.1700	51.61	0.8174	0.3589	43	2.35	041.40	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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041	Direct Available Phosphorus as P2O5 (52%)	0185	47.37*	2.370	51.61	0.8174	0.3589	43	-5.19	041.11	1
048	Water Soluble Phosphorus as P2O5 (%)	0231	23.43	0.2300	46.44	1.067	0.3140	13	-21.57	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0309	38.24	2.300	46.44	1.067	0.3140	13	-7.69	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0415	45.49	0.0123	46.44	1.067	0.3140	13	-0.90	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0444	46.22	0.1600	46.44	1.067	0.3140	13	-0.21	048.10	0
048	Water Soluble Phosphorus as P2O5 (%)	0394	46.30	0.0000	46.44	1.067	0.3140	13	-0.13	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0405	46.36	0.0200	46.44	1.067	0.3140	13	-0.08	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0487	46.60	0.0000	46.44	1.067	0.3140	13	0.15	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0513	46.72	0.1300	46.44	1.067	0.3140	13	0.25	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0522	46.90	0.1700	46.44	1.067	0.3140	13	0.42	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0096	46.95	0.4300	46.44	1.067	0.3140	13	0.47	048.40	0
048	Water Soluble Phosphorus as P2O5 (%)	0518	47.09	0.0300	46.44	1.067	0.3140	13	0.60	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0420	47.44	0.3700	46.44	1.067	0.3140	13	0.93	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0220	48.37	0.2300	46.44	1.067	0.3140	13	1.80	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0520	44.80	5.010	46.44	1.067	0.3140	13	-1.55	048.99	1
050	Soluble Potassium as K2O (%)	0325	0.1000	0.0000	0.1510	0.0265	0.0029	9	-1.78	050.99	0
050	Soluble Potassium as K2O (%)	0096	0.1200	0.0000	0.1510	0.0265	0.0029	9	-1.08	050.99	0
050	Soluble Potassium as K2O (%)	0524	0.1461	0.0243	0.1510	0.0265	0.0029	9	-0.17	050.99	0
050	Soluble Potassium as K2O (%)	0389	0.1480	0.0000	0.1510	0.0265	0.0029	9	-0.11	050.99	0
050	Soluble Potassium as K2O (%)	0482	0.1500	0.0000	0.1510	0.0265	0.0029	9	-0.04	050.99	0
050	Soluble Potassium as K2O (%)	0486	0.1600	0.0000	0.1510	0.0265	0.0029	9	0.31	050.52	0
050	Soluble Potassium as K2O (%)	0421	0.1700	0.0000	0.1510	0.0265	0.0029	9	0.66	050.99	0
050	Soluble Potassium as K2O (%)	0521	0.1759	0.0000	0.1510	0.0265	0.0029	9	0.87	050.99	0
050	Soluble Potassium as K2O (%)	0354	0.1780	0.0020	0.1510	0.0265	0.0029	9	0.94	050.52	0
050	Soluble Potassium as K2O (%)	0185	0.0400	0.0400	0.1510	0.0265	0.0029	9	-3.87	050.32	1
060	Water (Free) (%)	0510	1.628	0.0200	2.121	0.3588	0.0167	6	-1.22	060.99	0
060	Water (Free) (%)	0394	1.940	0.0000	2.121	0.3588	0.0167	6	-0.45	060.20	0
060	Water (Free) (%)	0513	2.140	0.0200	2.121	0.3588	0.0167	6	0.05	060.99	0
060	Water (Free) (%)	0096	2.150	0.0400	2.121	0.3588	0.0167	6	0.07	060.00	0
060	Water (Free) (%)	0513	2.320	0.0200	2.121	0.3588	0.0167	6	0.49	060.30	0
060	Water (Free) (%)	0394	2.550	0.0000	2.121	0.3588	0.0167	6	1.06	060.30	0
060	Water (Free) (%)	0007	1.910	0.1800	2.121	0.3588	0.0167	6	-0.52	060.00	1
101	Acid Soluble Calcium (%)	0105	0.2525	0.0130	0.3560	0.0274	0.0070	14	-3.78	101.00	0
101	Acid Soluble Calcium (%)	0472	0.2950	0.0100	0.3560	0.0274	0.0070	14	-2.23	101.30	0
101	Acid Soluble Calcium (%)	0389	0.3350	0.0000	0.3560	0.0274	0.0070	14	-0.77	101.99	0
101	Acid Soluble Calcium (%)	0482	0.3400	0.0000	0.3560	0.0274	0.0070	14	-0.58	101.30	0
101	Acid Soluble Calcium (%)	0307	0.3465	0.0190	0.3560	0.0274	0.0070	14	-0.35	101.30	0
101	Acid Soluble Calcium (%)	0117	0.3572	0.0008	0.3560	0.0274	0.0070	14	0.04	101.33	0
101	Acid Soluble Calcium (%)	0354	0.3585	0.0030	0.3560	0.0274	0.0070	14	0.09	101.30	0
101	Acid Soluble Calcium (%)	0096	0.3590	0.0020	0.3560	0.0274	0.0070	14	0.11	101.30	0
101	Acid Soluble Calcium (%)	0494	0.3619	0.0008	0.3560	0.0274	0.0070	14	0.22	101.33	0
101	Acid Soluble Calcium (%)	0421	0.3650	0.0100	0.3560	0.0274	0.0070	14	0.33	101.33	0
101	Acid Soluble Calcium (%)	0009	0.3700	0.0200	0.3560	0.0274	0.0070	14	0.51	101.33	0

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101	Acid Soluble Calcium (%)	0035	0.3770	0.0120	0.3560	0.0274	0.0070	14	0.77	101.30	0
101	Acid Soluble Calcium (%)	0105	0.3870	0.0080	0.3560	0.0274	0.0070	14	1.13	101.03	0
101	Acid Soluble Calcium (%)	0521	0.5034	0.0000	0.3560	0.0274	0.0070	14	5.38	101.32	0
121	Acid Soluble Magnesium (%)	0354	0.7325	0.0350	0.8091	0.0460	0.0203	13	-1.67	121.30	0
121	Acid Soluble Magnesium (%)	0009	0.7650	0.0100	0.8091	0.0460	0.0203	13	-0.96	121.33	0
121	Acid Soluble Magnesium (%)	0494	0.7715	0.0595	0.8091	0.0460	0.0203	13	-0.82	121.33	0
121	Acid Soluble Magnesium (%)	0096	0.7720	0.0120	0.8091	0.0460	0.0203	13	-0.81	121.30	0
121	Acid Soluble Magnesium (%)	0105	0.7955	0.0230	0.8091	0.0460	0.0203	13	-0.30	121.03	0
121	Acid Soluble Magnesium (%)	0389	0.8010	0.0120	0.8091	0.0460	0.0203	13	-0.18	121.99	0
121	Acid Soluble Magnesium (%)	0307	0.8095	0.0110	0.8091	0.0460	0.0203	13	0.01	121.30	0
121	Acid Soluble Magnesium (%)	0117	0.8230	0.0138	0.8091	0.0460	0.0203	13	0.30	121.33	0
121	Acid Soluble Magnesium (%)	0105	0.8235	0.0330	0.8091	0.0460	0.0203	13	0.31	121.00	0
121	Acid Soluble Magnesium (%)	0524	0.8334	0.0231	0.8091	0.0460	0.0203	13	0.53	121.99	0
121	Acid Soluble Magnesium (%)	0035	0.8390	0.0320	0.8091	0.0460	0.0203	13	0.65	121.30	0
121	Acid Soluble Magnesium (%)	0521	0.8671	0.0000	0.8091	0.0460	0.0203	13	1.26	121.32	0
121	Acid Soluble Magnesium (%)	0472	0.9100	0.0000	0.8091	0.0460	0.0203	13	2.19	121.30	0
121	Acid Soluble Magnesium (%)	0421	0.8950	0.1300	0.8091	0.0460	0.0203	13	1.87	121.33	1
143	Elemental Sulfur (%)	0472	1.250	0.0000				2		143.99	0
143	Elemental Sulfur (%)	0389	1.336	0.0070				2		143.99	0
148	Total Sulfur (%)	0494	1.188	0.0097	1.275	0.0668	0.0374	9	-1.19	148.07	0
148	Total Sulfur (%)	0009	1.200	0.0000	1.275	0.0668	0.0374	9	-1.03	148.07	0
148	Total Sulfur (%)	0307	1.236	0.0950	1.275	0.0668	0.0374	9	-0.54	148.99	0
148	Total Sulfur (%)	0096	1.285	0.0100	1.275	0.0668	0.0374	9	0.14	148.99	0
148	Total Sulfur (%)	0354	1.286	0.0410	1.275	0.0668	0.0374	9	0.15	148.99	0
148	Total Sulfur (%)	0117	1.287	0.0080	1.275	0.0668	0.0374	9	0.17	148.07	0
148	Total Sulfur (%)	0482	1.290	0.0200	1.275	0.0668	0.0374	9	0.21	148.99	0
148	Total Sulfur (%)	0421	1.325	0.0500	1.275	0.0668	0.0374	9	0.70	148.07	0
148	Total Sulfur (%)	0351	1.460	0.1030	1.275	0.0668	0.0374	9	2.56	148.00	0
149	Sulfur - HNO3 soluble (%)	0524	1.307	0.0125				2		149.04	0
149	Sulfur - HNO3 soluble (%)	0521	1.410	0.0000				2		149.04	0
151	Acid Soluble Arsenic (ppm)	0027	42.15	3.100	78.99	14.46	4.002	15	-2.55	151.30	0
151	Acid Soluble Arsenic (ppm)	0096	57.80	2.200	78.99	14.46	4.002	15	-1.47	151.30	0
151	Acid Soluble Arsenic (ppm)	0515	70.08	5.160	78.99	14.46	4.002	15	-0.62	151.33	0
151	Acid Soluble Arsenic (ppm)	0009	71.50	1.000	78.99	14.46	4.002	15	-0.52	151.33	0
151	Acid Soluble Arsenic (ppm)	0444	72.65	2.990	78.99	14.46	4.002	15	-0.44	151.30	0
151	Acid Soluble Arsenic (ppm)	0515	74.36	4.889	78.99	14.46	4.002	15	-0.32	151.34	0
151	Acid Soluble Arsenic (ppm)	0230	75.25	1.500	78.99	14.46	4.002	15	-0.26	151.34	0
151	Acid Soluble Arsenic (ppm)	0117	77.52	0.8800	78.99	14.46	4.002	15	-0.10	151.33	0
151	Acid Soluble Arsenic (ppm)	0136	78.50	1.000	78.99	14.46	4.002	15	-0.03	151.00	0
151	Acid Soluble Arsenic (ppm)	0394	85.00	5.600	78.99	14.46	4.002	15	0.42	151.30	0
151	Acid Soluble Arsenic (ppm)	0494	85.38	1.826	78.99	14.46	4.002	15	0.44	151.33	0
151	Acid Soluble Arsenic (ppm)	0009	90.50	3.000	78.99	14.46	4.002	15	0.80	151.99	0
151	Acid Soluble Arsenic (ppm)	0042	93.95	13.70	78.99	14.46	4.002	15	1.03	151.99	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				
151	Acid Soluble Arsenic (ppm)	0102	94.45	1.809	78.99	14.46	4.002	15	1.07	151.30	0
151	Acid Soluble Arsenic (ppm)	0105	105.1	11.38	78.99	14.46	4.002	15	1.81	151.33	0
165	Acid Soluble Boron (%)	0421	0.0030	0.0000	0.0160	0.0164	0.0031	7	-0.71	165.99	0
165	Acid Soluble Boron (%)	0009	0.0047	0.0001	0.0160	0.0164	0.0031	7	-0.62	165.99	0
165	Acid Soluble Boron (%)	0524	0.0071	0.0005	0.0160	0.0164	0.0031	7	-0.49	165.99	0
165	Acid Soluble Boron (%)	0482	0.0100	0.0000	0.0160	0.0164	0.0031	7	-0.33	165.99	0
165	Acid Soluble Boron (%)	0472	0.0150	0.0100	0.0160	0.0164	0.0031	7	-0.05	165.99	0
165	Acid Soluble Boron (%)	0389	0.0315	0.0013	0.0160	0.0164	0.0031	7	0.85	165.30	0
165	Acid Soluble Boron (%)	0354	0.0420	0.0100	0.0160	0.0164	0.0031	7	1.43	165.30	0
165	Acid Soluble Boron (%)	0521	0.0000	0.0000	0.0160	0.0164	0.0031	7		165.30	4
171	Water Soluble Boron (%)	0402	0.0300	0.0000				1		171.99	0
181	Acid Soluble Cadmium (ppm)	0035	196.0	10.00	229.1	22.13	5.971	18	-1.50	181.30	0
181	Acid Soluble Cadmium (ppm)	0444	199.5	9.000	229.1	22.13	5.971	18	-1.34	181.30	0
181	Acid Soluble Cadmium (ppm)	0042	200.4	2.600	229.1	22.13	5.971	18	-1.30	181.99	0
181	Acid Soluble Cadmium (ppm)	0523	209.2	1.960	229.1	22.13	5.971	18	-0.90	181.30	0
181	Acid Soluble Cadmium (ppm)	0515	213.5	7.609	229.1	22.13	5.971	18	-0.71	181.33	0
181	Acid Soluble Cadmium (ppm)	0506	221.5	7.000	229.1	22.13	5.971	18	-0.34	181.99	0
181	Acid Soluble Cadmium (ppm)	0494	227.8	15.34	229.1	22.13	5.971	18	-0.06	181.33	0
181	Acid Soluble Cadmium (ppm)	0230	228.0	4.000	229.1	22.13	5.971	18	-0.05	181.34	0
181	Acid Soluble Cadmium (ppm)	0096	228.6	7.900	229.1	22.13	5.971	18	-0.03	181.30	0
181	Acid Soluble Cadmium (ppm)	0389	231.0	2.000	229.1	22.13	5.971	18	0.08	181.30	0
181	Acid Soluble Cadmium (ppm)	0117	234.9	1.800	229.1	22.13	5.971	18	0.26	181.33	0
181	Acid Soluble Cadmium (ppm)	0515	237.2	2.749	229.1	22.13	5.971	18	0.37	181.34	0
181	Acid Soluble Cadmium (ppm)	0394	238.5	1.000	229.1	22.13	5.971	18	0.42	181.30	0
181	Acid Soluble Cadmium (ppm)	0524	244.1	0.9100	229.1	22.13	5.971	18	0.68	181.30	0
181	Acid Soluble Cadmium (ppm)	0009	245.0	10.00	229.1	22.13	5.971	18	0.72	181.33	0
181	Acid Soluble Cadmium (ppm)	0102	250.3	4.617	229.1	22.13	5.971	18	0.96	181.30	0
181	Acid Soluble Cadmium (ppm)	0482	256.5	1.000	229.1	22.13	5.971	18	1.24	181.30	0
181	Acid Soluble Cadmium (ppm)	0105	264.6	18.00	229.1	22.13	5.971	18	1.60	181.33	0
181	Acid Soluble Cadmium (ppm)	0009	285.0	50.00	229.1	22.13	5.971	18	2.53	181.99	1
181	Acid Soluble Cadmium (ppm)	0136	595.0	10.00	229.1	22.13	5.971	18	16.54	181.00	2
191	Acid Soluble Chromium (ppm)	0027	47.50	1.400	88.46	6.334	2.564	19	-6.47	191.30	0
191	Acid Soluble Chromium (ppm)	0506	50.75	1.500	88.46	6.334	2.564	19	-5.95	191.99	0
191	Acid Soluble Chromium (ppm)	0394	83.90	0.0000	88.46	6.334	2.564	19	-0.72	191.30	0
191	Acid Soluble Chromium (ppm)	0035	84.80	3.600	88.46	6.334	2.564	19	-0.58	191.30	0
191	Acid Soluble Chromium (ppm)	0009	85.00	0.0000	88.46	6.334	2.564	19	-0.55	191.33	0
191	Acid Soluble Chromium (ppm)	0230	85.35	0.3000	88.46	6.334	2.564	19	-0.49	191.34	0
191	Acid Soluble Chromium (ppm)	0444	85.57	0.4000	88.46	6.334	2.564	19	-0.46	191.30	0
191	Acid Soluble Chromium (ppm)	0096	85.60	0.8000	88.46	6.334	2.564	19	-0.45	191.30	0
191	Acid Soluble Chromium (ppm)	0117	85.79	0.4700	88.46	6.334	2.564	19	-0.42	191.33	0
191	Acid Soluble Chromium (ppm)	0494	87.36	6.541	88.46	6.334	2.564	19	-0.17	191.33	0
191	Acid Soluble Chromium (ppm)	0515	87.96	4.538	88.46	6.334	2.564	19	-0.08	191.34	0
191	Acid Soluble Chromium (ppm)	0523	89.99	1.730	88.46	6.334	2.564	19	0.24	191.30	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				
191	Acid Soluble Chromium (ppm)	0042	91.33	4.130	88.46	6.334	2.564	19	0.45	191.99	0
191	Acid Soluble Chromium (ppm)	0009	91.50	9.000	88.46	6.334	2.564	19	0.48	191.99	0
191	Acid Soluble Chromium (ppm)	0482	94.10	1.400	88.46	6.334	2.564	19	0.89	191.30	0
191	Acid Soluble Chromium (ppm)	0389	94.20	0.4000	88.46	6.334	2.564	19	0.91	191.30	0
191	Acid Soluble Chromium (ppm)	0515	94.40	8.916	88.46	6.334	2.564	19	0.94	191.33	0
191	Acid Soluble Chromium (ppm)	0102	98.87	0.5965	88.46	6.334	2.564	19	1.64	191.30	0
191	Acid Soluble Chromium (ppm)	0105	104.0	3.000	88.46	6.334	2.564	19	2.45	191.33	0
202	Acid Soluble Cobalt (ppm)	0524	0.1650	0.0100	2.725	1.263	0.2167	13	-2.03	202.30	0
202	Acid Soluble Cobalt (ppm)	0009	1.200	0.2000	2.725	1.263	0.2167	13	-1.21	202.33	0
202	Acid Soluble Cobalt (ppm)	0515	1.328	0.5050	2.725	1.263	0.2167	13	-1.11	202.33	0
202	Acid Soluble Cobalt (ppm)	0515	1.594	0.2200	2.725	1.263	0.2167	13	-0.90	202.34	0
202	Acid Soluble Cobalt (ppm)	0096	2.445	0.0300	2.725	1.263	0.2167	13	-0.22	202.30	0
202	Acid Soluble Cobalt (ppm)	0389	3.100	0.0000	2.725	1.263	0.2167	13	0.30	202.30	0
202	Acid Soluble Cobalt (ppm)	0523	3.195	0.0500	2.725	1.263	0.2167	13	0.37	202.30	0
202	Acid Soluble Cobalt (ppm)	0042	3.240	0.0800	2.725	1.263	0.2167	13	0.41	202.99	0
202	Acid Soluble Cobalt (ppm)	0009	3.250	0.5000	2.725	1.263	0.2167	13	0.42	202.99	0
202	Acid Soluble Cobalt (ppm)	0035	3.670	0.1800	2.725	1.263	0.2167	13	0.75	202.30	0
202	Acid Soluble Cobalt (ppm)	0494	3.781	0.6628	2.725	1.263	0.2167	13	0.84	202.33	0
202	Acid Soluble Cobalt (ppm)	0102	3.846	0.0790	2.725	1.263	0.2167	13	0.89	202.30	0
202	Acid Soluble Cobalt (ppm)	0482	3.950	0.3000	2.725	1.263	0.2167	13	0.97	202.30	0
221	Acid Soluble Copper (%)	0433	0.0002	0.0001	0.0004	0.0002	0.0001	6	-1.21	221.30	0
221	Acid Soluble Copper (%)	0523	0.0003	0.0001	0.0004	0.0002	0.0001	6	-0.71	221.99	0
221	Acid Soluble Copper (%)	0506	0.0005	0.0001	0.0004	0.0002	0.0001	6	0.29	221.99	0
221	Acid Soluble Copper (%)	0515	0.0005	0.0001	0.0004	0.0002	0.0001	6	0.29	221.99	0
221	Acid Soluble Copper (%)	0394	0.0005	0.0000	0.0004	0.0002	0.0001	6	0.54	221.32	0
221	Acid Soluble Copper (%)	0515	0.0006	0.0001	0.0004	0.0002	0.0001	6	0.80	221.33	0
221	Acid Soluble Copper (%)	0524	0.0398	0.0533	0.0004	0.0002	0.0001	6	197.84	221.99	2
221	Acid Soluble Copper (%)	0354	0.0000	0.0000	0.0004	0.0002	0.0001	6		221.30	4
221	Acid Soluble Copper (%)	0521	0.0000	0.0000	0.0004	0.0002	0.0001	6		221.32	4
221	Acid Soluble Copper (%)	0009	0.0000	0.0000	0.0004	0.0002	0.0001	6		221.33	4
221	Acid Soluble Copper (%)	0009	0.0000	0.0000	0.0004	0.0002	0.0001	6		221.99	4
241	Acid Soluble Iron (%)	0354	1.079	0.0360	1.197	0.0803	0.0168	15	-1.47	241.30	0
241	Acid Soluble Iron (%)	0009	1.100	0.0000	1.197	0.0803	0.0168	15	-1.21	241.33	0
241	Acid Soluble Iron (%)	0096	1.120	0.0200	1.197	0.0803	0.0168	15	-0.96	241.30	0
241	Acid Soluble Iron (%)	0117	1.146	0.0140	1.197	0.0803	0.0168	15	-0.64	241.33	0
241	Acid Soluble Iron (%)	0402	1.160	0.0000	1.197	0.0803	0.0168	15	-0.46	241.30	0
241	Acid Soluble Iron (%)	0307	1.165	0.0280	1.197	0.0803	0.0168	15	-0.40	241.30	0
241	Acid Soluble Iron (%)	0389	1.182	0.0210	1.197	0.0803	0.0168	15	-0.19	241.99	0
241	Acid Soluble Iron (%)	0105	1.207	0.0150	1.197	0.0803	0.0168	15	0.12	241.03	0
241	Acid Soluble Iron (%)	0421	1.220	0.0000	1.197	0.0803	0.0168	15	0.29	241.33	0
241	Acid Soluble Iron (%)	0105	1.230	0.0210	1.197	0.0803	0.0168	15	0.40	241.00	0
241	Acid Soluble Iron (%)	0035	1.235	0.0100	1.197	0.0803	0.0168	15	0.47	241.30	0
241	Acid Soluble Iron (%)	0521	1.238	0.0000	1.197	0.0803	0.0168	15	0.51	241.32	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				
241	Acid Soluble Iron (%)	0482	1.240	0.0200	1.197	0.0803	0.0168	15	0.53	241.30	0
241	Acid Soluble Iron (%)	0524	1.385	0.0575	1.197	0.0803	0.0168	15	2.34	241.99	0
241	Acid Soluble Iron (%)	0472	1.385	0.0100	1.197	0.0803	0.0168	15	2.34	241.30	0
251	Acid Soluble Lead (ppm)	0494	1.158	0.0706	1,212	149.2	26.80	20	-8.12	251.33	0
251	Acid Soluble Lead (ppm)	0027	613.5	13.00	1,212	149.2	26.80	20	-4.01	251.30	0
251	Acid Soluble Lead (ppm)	0042	1,031	143.7	1,212	149.2	26.80	20	-1.21	251.99	0
251	Acid Soluble Lead (ppm)	0444	1,039	31.00	1,212	149.2	26.80	20	-1.16	251.30	0
251	Acid Soluble Lead (ppm)	0523	1,096	6.690	1,212	149.2	26.80	20	-0.78	251.30	0
251	Acid Soluble Lead (ppm)	0035	1,133	44.00	1,212	149.2	26.80	20	-0.53	251.30	0
251	Acid Soluble Lead (ppm)	0482	1,179	29.00	1,212	149.2	26.80	20	-0.22	251.30	0
251	Acid Soluble Lead (ppm)	0117	1,208	1.000	1,212	149.2	26.80	20	-0.03	251.33	0
251	Acid Soluble Lead (ppm)	0394	1,210	20.00	1,212	149.2	26.80	20	-0.01	251.30	0
251	Acid Soluble Lead (ppm)	0389	1,225	10.00	1,212	149.2	26.80	20	0.09	251.30	0
251	Acid Soluble Lead (ppm)	0230	1,230	0.0000	1,212	149.2	26.80	20	0.12	251.34	0
251	Acid Soluble Lead (ppm)	0136	1,245	10.00	1,212	149.2	26.80	20	0.22	251.00	0
251	Acid Soluble Lead (ppm)	0506	1,285	0.0000	1,212	149.2	26.80	20	0.49	251.99	0
251	Acid Soluble Lead (ppm)	0096	1,287	18.00	1,212	149.2	26.80	20	0.50	251.30	0
251	Acid Soluble Lead (ppm)	0009	1,300	0.0000	1,212	149.2	26.80	20	0.59	251.33	0
251	Acid Soluble Lead (ppm)	0515	1,302	20.49	1,212	149.2	26.80	20	0.60	251.33	0
251	Acid Soluble Lead (ppm)	0524	1,304	21.19	1,212	149.2	26.80	20	0.62	251.30	0
251	Acid Soluble Lead (ppm)	0105	1,337	37.10	1,212	149.2	26.80	20	0.84	251.33	0
251	Acid Soluble Lead (ppm)	0102	1,418	32.54	1,212	149.2	26.80	20	1.38	251.30	0
251	Acid Soluble Lead (ppm)	0515	1,536	98.14	1,212	149.2	26.80	20	2.17	251.34	0
251	Acid Soluble Lead (ppm)	0009	1,500	400.0	1,212	149.2	26.80	20	1.93	251.99	1
261	Acid Soluble Manganese (%)	0354	0.0360	0.0000	0.0392	0.0019	0.0006	16	-1.69	261.30	0
261	Acid Soluble Manganese (%)	0389	0.0371	0.0001	0.0392	0.0019	0.0006	16	-1.13	261.99	0
261	Acid Soluble Manganese (%)	0494	0.0372	0.0021	0.0392	0.0019	0.0006	16	-1.07	261.35	0
261	Acid Soluble Manganese (%)	0009	0.0375	0.0010	0.0392	0.0019	0.0006	16	-0.88	261.35	0
261	Acid Soluble Manganese (%)	0117	0.0376	0.0000	0.0392	0.0019	0.0006	16	-0.83	261.35	0
261	Acid Soluble Manganese (%)	0096	0.0381	0.0002	0.0392	0.0019	0.0006	16	-0.56	261.30	0
261	Acid Soluble Manganese (%)	0524	0.0392	0.0007	0.0392	0.0019	0.0006	16	0.00	261.99	0
261	Acid Soluble Manganese (%)	0307	0.0395	0.0010	0.0392	0.0019	0.0006	16	0.19	261.30	0
261	Acid Soluble Manganese (%)	0472	0.0400	0.0000	0.0392	0.0019	0.0006	16	0.45	261.30	0
261	Acid Soluble Manganese (%)	0482	0.0400	0.0000	0.0392	0.0019	0.0006	16	0.45	261.31	0
261	Acid Soluble Manganese (%)	0402	0.0400	0.0000	0.0392	0.0019	0.0006	16	0.45	261.32	0
261	Acid Soluble Manganese (%)	0521	0.0400	0.0000	0.0392	0.0019	0.0006	16	0.45	261.34	0
261	Acid Soluble Manganese (%)	0421	0.0400	0.0000	0.0392	0.0019	0.0006	16	0.45	261.35	0
261	Acid Soluble Manganese (%)	0035	0.0413	0.0008	0.0392	0.0019	0.0006	16	1.15	261.30	0
261	Acid Soluble Manganese (%)	0105	0.0414	0.0015	0.0392	0.0019	0.0006	16	1.18	261.15	0
261	Acid Soluble Manganese (%)	0105	0.0414	0.0016	0.0392	0.0019	0.0006	16	1.20	261.12	0
281	Acid Soluble Mercury (ppm)	0042	8.200	0.3000	56.96	74.33	1.610	3	-0.66	281.99	0
281	Acid Soluble Mercury (ppm)	0117	20.17	1.530	56.96	74.33	1.610	3	-0.49	281.00	0
281	Acid Soluble Mercury (ppm)	0506	142.5	3.000	56.96	74.33	1.610	3	1.15	281.00	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				
281	Acid Soluble Mercury (ppm)	0515	0.0000	0.0000	56.96	74.33	1.610	3		281.30	4
289	Acid Soluble Molybdenum (ppm)	0042	11.79	0.6400	13.49	1.269	0.3987	16	-1.34	289.99	0
289	Acid Soluble Molybdenum (ppm)	0394	12.01	0.0500	13.49	1.269	0.3987	16	-1.17	289.32	0
289	Acid Soluble Molybdenum (ppm)	0433	12.21	0.1600	13.49	1.269	0.3987	16	-1.01	289.30	0
289	Acid Soluble Molybdenum (ppm)	0096	12.45	0.7000	13.49	1.269	0.3987	16	-0.82	289.30	0
289	Acid Soluble Molybdenum (ppm)	0515	12.67	1.072	13.49	1.269	0.3987	16	-0.64	289.33	0
289	Acid Soluble Molybdenum (ppm)	0009	13.00	0.0000	13.49	1.269	0.3987	16	-0.39	289.33	0
289	Acid Soluble Molybdenum (ppm)	0230	13.00	0.0000	13.49	1.269	0.3987	16	-0.39	289.34	0
289	Acid Soluble Molybdenum (ppm)	0494	13.46	0.3031	13.49	1.269	0.3987	16	-0.02	289.33	0
289	Acid Soluble Molybdenum (ppm)	0521	13.70	0.0000	13.49	1.269	0.3987	16	0.16	289.30	0
289	Acid Soluble Molybdenum (ppm)	0117	13.73	0.3000	13.49	1.269	0.3987	16	0.19	289.33	0
289	Acid Soluble Molybdenum (ppm)	0035	13.75	0.9000	13.49	1.269	0.3987	16	0.20	289.30	0
289	Acid Soluble Molybdenum (ppm)	0105	14.05	0.9700	13.49	1.269	0.3987	16	0.44	289.33	0
289	Acid Soluble Molybdenum (ppm)	0506	14.75	0.5000	13.49	1.269	0.3987	16	0.99	289.99	0
289	Acid Soluble Molybdenum (ppm)	0009	15.00	0.0000	13.49	1.269	0.3987	16	1.19	289.99	0
289	Acid Soluble Molybdenum (ppm)	0524	15.14	0.3900	13.49	1.269	0.3987	16	1.30	289.30	0
289	Acid Soluble Molybdenum (ppm)	0102	15.16	0.3950	13.49	1.269	0.3987	16	1.31	289.30	0
289	Acid Soluble Molybdenum (ppm)	0515	12.32	2.318	13.49	1.269	0.3987	16	-0.92	289.34	1
291	Acid Soluble Nickel (ppm)	0515	12.80	1.019	15.42	1.123	0.4571	18	-2.34	291.33	0
291	Acid Soluble Nickel (ppm)	0444	14.25	0.1900	15.42	1.123	0.4571	18	-1.05	291.30	0
291	Acid Soluble Nickel (ppm)	0096	14.40	0.8000	15.42	1.123	0.4571	18	-0.91	291.30	0
291	Acid Soluble Nickel (ppm)	0515	14.42	0.6030	15.42	1.123	0.4571	18	-0.89	291.34	0
291	Acid Soluble Nickel (ppm)	0523	14.47	0.3800	15.42	1.123	0.4571	18	-0.85	291.30	0
291	Acid Soluble Nickel (ppm)	0035	14.80	0.6000	15.42	1.123	0.4571	18	-0.56	291.30	0
291	Acid Soluble Nickel (ppm)	0482	14.95	0.7000	15.42	1.123	0.4571	18	-0.42	291.30	0
291	Acid Soluble Nickel (ppm)	0394	15.10	0.4000	15.42	1.123	0.4571	18	-0.29	291.30	0
291	Acid Soluble Nickel (ppm)	0230	15.15	0.1000	15.42	1.123	0.4571	18	-0.24	291.34	0
291	Acid Soluble Nickel (ppm)	0521	15.76	0.0000	15.42	1.123	0.4571	18	0.30	291.30	0
291	Acid Soluble Nickel (ppm)	0494	15.79	0.5960	15.42	1.123	0.4571	18	0.33	291.33	0
291	Acid Soluble Nickel (ppm)	0524	15.81	0.8900	15.42	1.123	0.4571	18	0.34	291.30	0
291	Acid Soluble Nickel (ppm)	0009	16.00	0.0000	15.42	1.123	0.4571	18	0.51	291.33	0
291	Acid Soluble Nickel (ppm)	0009	16.00	0.0000	15.42	1.123	0.4571	18	0.51	291.99	0
291	Acid Soluble Nickel (ppm)	0042	16.20	1.000	15.42	1.123	0.4571	18	0.69	291.99	0
291	Acid Soluble Nickel (ppm)	0117	16.59	0.2800	15.42	1.123	0.4571	18	1.04	291.33	0
291	Acid Soluble Nickel (ppm)	0102	17.69	0.2000	15.42	1.123	0.4571	18	2.01	291.30	0
291	Acid Soluble Nickel (ppm)	0105	26.10	0.4700	15.42	1.123	0.4571	18	9.50	291.33	0
301	Acid Soluble Selenium (ppm)	0515	0.5718	0.4826	4.718	6.354	0.2501	5	-0.57	301.33	0
301	Acid Soluble Selenium (ppm)	0524	0.6102	0.0281	4.718	6.354	0.2501	5	-0.56	301.30	0
301	Acid Soluble Selenium (ppm)	0009	2.700	0.2000	4.718	6.354	0.2501	5	-0.28	301.99	0
301	Acid Soluble Selenium (ppm)	0523	3.915	0.0900	4.718	6.354	0.2501	5	-0.11	301.30	0
301	Acid Soluble Selenium (ppm)	0042	15.80	0.4500	4.718	6.354	0.2501	5	1.52	301.99	0
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	4.718	6.354	0.2501	5		301.34	4
301	Acid Soluble Selenium (ppm)	0009	1.200	2.400	4.718	6.354	0.2501	5		301.33	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				
311	Sodium (%)	0009	0.0960	0.0040	0.1333	0.0353	0.0010	6	-0.94	311.33	0
311	Sodium (%)	0482	0.1000	0.0000	0.1333	0.0353	0.0010	6	-0.84	311.99	0
311	Sodium (%)	0096	0.1300	0.0000	0.1333	0.0353	0.0010	6	-0.08	311.99	0
311	Sodium (%)	0035	0.1395	0.0010	0.1333	0.0353	0.0010	6	0.16	311.33	0
311	Sodium (%)	0354	0.1655	0.0010	0.1333	0.0353	0.0010	6	0.81	311.99	0
311	Sodium (%)	0521	0.1686	0.0000	0.1333	0.0353	0.0010	6	0.89	311.32	0
311	Sodium (%)	0494	0.1036	0.0088	0.1333	0.0353	0.0010	6	-0.75	311.33	1
321	Acid Soluble Zinc (%)	0027	0.0032	0.0002	0.0068	0.0014	0.0002	25	-2.52	321.99	0
321	Acid Soluble Zinc (%)	0105	0.0053	0.0001	0.0068	0.0014	0.0002	25	-1.09	321.33	0
321	Acid Soluble Zinc (%)	0009	0.0055	0.0005	0.0068	0.0014	0.0002	25	-0.95	321.99	0
321	Acid Soluble Zinc (%)	0307	0.0055	0.0010	0.0068	0.0014	0.0002	25	-0.92	321.30	0
321	Acid Soluble Zinc (%)	0420	0.0059	0.0000	0.0068	0.0014	0.0002	25	-0.64	321.30	0
321	Acid Soluble Zinc (%)	0494	0.0060	0.0003	0.0068	0.0014	0.0002	25	-0.60	321.33	0
321	Acid Soluble Zinc (%)	0515	0.0060	0.0002	0.0068	0.0014	0.0002	25	-0.57	321.33	0
321	Acid Soluble Zinc (%)	0389	0.0061	0.0005	0.0068	0.0014	0.0002	25	-0.53	321.99	0
321	Acid Soluble Zinc (%)	0230	0.0061	0.0000	0.0068	0.0014	0.0002	25	-0.50	321.30	0
321	Acid Soluble Zinc (%)	0394	0.0062	0.0000	0.0068	0.0014	0.0002	25	-0.43	321.32	0
321	Acid Soluble Zinc (%)	0515	0.0063	0.0000	0.0068	0.0014	0.0002	25	-0.36	321.99	0
321	Acid Soluble Zinc (%)	0117	0.0064	0.0002	0.0068	0.0014	0.0002	25	-0.29	321.33	0
321	Acid Soluble Zinc (%)	0105	0.0067	0.0003	0.0068	0.0014	0.0002	25	-0.11	321.00	0
321	Acid Soluble Zinc (%)	0524	0.0068	0.0003	0.0068	0.0014	0.0002	25	-0.04	321.99	0
321	Acid Soluble Zinc (%)	0233	0.0070	0.0001	0.0068	0.0014	0.0002	25	0.10	321.30	0
321	Acid Soluble Zinc (%)	0042	0.0070	0.0004	0.0068	0.0014	0.0002	25	0.13	321.99	0
321	Acid Soluble Zinc (%)	0523	0.0070	0.0000	0.0068	0.0014	0.0002	25	0.13	321.99	0
321	Acid Soluble Zinc (%)	35	0.0071	0.0003	0.0068	0.0014	0.0002	25	0.17	321.3	0
321	Acid Soluble Zinc (%)	433	0.0072	0.0003	0.0068	0.0014	0.0002	25	0.24	321.3	0
321	Acid Soluble Zinc (%)	102	0.0072	0.0002	0.0068	0.0014	0.0002	25	0.27	321.3	0
321	Acid Soluble Zinc (%)	96	0.0095	0.0001	0.0068	0.0014	0.0002	25	1.84	321.3	0
321	Acid Soluble Zinc (%)	354	0.0095	0.0010	0.0068	0.0014	0.0002	25	1.88	321.3	0
321	Acid Soluble Zinc (%)	482	0.0100	0.0000	0.0068	0.0014	0.0002	25	2.23	321.3	0
321	Acid Soluble Zinc (%)	421	0.0100	0.0000	0.0068	0.0014	0.0002	25	2.23	321.33	0
321	Acid Soluble Zinc (%)	506	0.0100	0.0000	0.0068	0.0014	0.0002	25	2.23	321.99	0
321	Acid Soluble Zinc (%)	105	0.0061	0.0016	0.0068	0.0014	0.0002	25	-0.50	321.03	1
321	Acid Soluble Zinc (%)	521	0.0000	0.0000	0.0068	0.0014	0.0002	25		321.32	4

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.