

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 160811

Liquid Organic

Statistical Summary

Analytes: 34

Labs Reporting: 80

Issue Date : 09/30/2016

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 (%)	24	22	4.419	0.1459	4.421		0.1571	0.0419	3.55%		0.0351	3.20%
003	Water Insoluble Nitrogen (%)	1		4.880									
005	Urea Nitrogen (%)	8	7	0.6410	0.1840	0.6453		0.1987	0.0939	30.80%		0.0137	4.27%
007	Urea (%)	3	3	1.280	0.5487	1.280		0.5487	0.3960	42.87%		0.1333	3.85%
010	Total Nitrogen (5%)	73	71	5.195	0.1831	5.185	0.5118	0.1746	0.0259	3.37%	4.94%	0.0672	3.12%
020	Total Phosphorus as P2O5 (%)	52	51	19.69	1.843	19.59		0.5583	0.0977	2.85%		0.2566	2.56%
041	Direct Available Phosphorus as P2O5 (20%)	33	31	18.92	1.826	19.39	0.7169	0.3884	0.0872	2.00%	1.85%	0.1830	2.56%
048	Water Soluble Phosphorus as P2O5 (%)	5	5	17.06	3.363	17.06		3.363	1.880	19.71%		0.1112	2.61%
050	Soluble Potassium as K2O (4%)	78	76	4.014	0.3826	3.963	0.4100	0.2257	0.0324	5.70%	5.17%	0.0760	3.25%
101	Acid Soluble Calcium (%)	15	14	0.0254	0.0270	0.0188		0.0062	0.0021	32.96%		0.0047	7.27%
121	Acid Soluble Magnesium (0.05%)	47	44	0.1490	0.1793	0.1222	0.2061	0.0126	0.0024	10.30%	84.31%	0.0042	5.49%
131	Water Soluble Magnesium (%)	2	2	0.1150	0.0071								
143	Elemental Sulfur (%)	2	2	0.5760	0.0085								
148	Total Sulfur (%)	12	12	0.5526	0.0787	0.5508		0.0854	0.0308	15.50%		0.0199	4.38%
149	Sulfur - HNO3 soluble (%)	2	2	0.6478	0.1445								
151	Acid Soluble Arsenic (ppm)	7	6	0.5220	0.2077	0.5220		0.2355	0.1202	45.12%		0.1920	17.64%
165	Acid Soluble Boron (0.02%)	30	28	0.0246	0.0046	0.0242	0.0066	0.0039	0.0009	16.34%	13.71%	0.0013	7.00%
171	Water Soluble Boron (%)	3	3	0.0217	0.0006	0.0217		0.0006	0.0004	2.66%		0.0027	7.12%
181	Acid Soluble Cadmium (ppm)	22	21	4.958	1.004	4.821		0.5805	0.1583	12.04%		0.1654	12.62%
190	Water Soluble Chlorine (%)	1		1.320									
191	Acid Soluble Chromium (ppm)	22	21	97.73	16.00	95.51		9.056	2.470	9.48%		2.276	8.05%
202	Acid Soluble Cobalt (ppm)	10	8	0.3415	0.2037	0.3415		0.2310	0.1021	67.65%		0.0840	18.80%
221	Acid Soluble Copper (%)	13	7	0.0006	0.0004	0.0006		0.0004	0.0002	72.41%		0.0003	12.38%
241	Acid Soluble Iron (0.05%)	41	40	0.1534	0.0365	0.1567	0.0207	0.0144	0.0029	9.22%	6.60%	0.0056	5.29%
251	Acid Soluble Lead (ppm)	9	8	0.6736	0.3054	0.6736		0.3463	0.1530	51.41%		0.0315	16.98%
261	Acid Soluble Manganese (0.2%)	42	40	0.2686	0.0384	0.2642	0.0314	0.0168	0.0033	6.37%	5.95%	0.0067	4.89%
271	Water Soluble Manganese (%)	1		0.2450									
281	Acid Soluble Mercury (ppm)	3	1	0.0200		0.2642		0.0168	0.0210	6.37%		0.0000	19.54%
289	Acid Soluble Molybdenum (30ppm)	28	26	35.35	11.73	34.88	11.4650	3.377	0.8280	9.68%	16.43%	0.5507	9.37%
291	Acid Soluble Nickel (ppm)	14	14	1.280	0.7341	1.127		0.2026	0.0677	17.98%		0.1461	15.71%
301	Acid Soluble Selenium (ppm)	6	5	0.8963	0.5760	0.8963		0.5760	0.3220	64.27%		0.2835	16.26%

Analyte Code	Analyte	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	IA %RSD	Average Range (R-bar)	Horwitz %RSD
311	Sodium (%)	7	7	0.8929	0.1506	0.8724		0.1197	0.0565	13.72%		0.0285	4.08%
321	Acid Soluble Zinc (0.03%)	45	43	0.0660	0.0180	0.0642	0.0114	0.0058	0.0011	8.97%	8.89%	0.0015	6.05%
325	Water Soluble Zinc (%)	1		0.0670									

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Lab Values

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Issue Date : 09/30/2016

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 (%)	0231	4.120	0.0600	4.421	0.1571	0.0351	22	-1.92	001.10	0
001	Ammoniacal Nitrogen (%)	0487	4.200	0.0000	4.421	0.1571	0.0351	22	-1.41	001.99	0
001	Ammoniacal Nitrogen (%)	0511	4.270	0.0000	4.421	0.1571	0.0351	22	-0.96	001.99	0
001	Ammoniacal Nitrogen (%)	0027	4.282	0.0180	4.421	0.1571	0.0351	22	-0.89	001.99	0
001	Ammoniacal Nitrogen (%)	0522	4.300	0.0000	4.421	0.1571	0.0351	22	-0.77	001.99	0
001	Ammoniacal Nitrogen (%)	0371	4.345	0.0100	4.421	0.1571	0.0351	22	-0.49	001.99	0
001	Ammoniacal Nitrogen (%)	0309	4.350	0.0800	4.421	0.1571	0.0351	22	-0.45	001.10	0
001	Ammoniacal Nitrogen (%)	0420	4.350	0.1000	4.421	0.1571	0.0351	22	-0.45	001.99	0
001	Ammoniacal Nitrogen (%)	0090	4.360	0.0200	4.421	0.1571	0.0351	22	-0.39	001.10	0
001	Ammoniacal Nitrogen (%)	0405	4.360	0.0040	4.421	0.1571	0.0351	22	-0.39	001.10	0
001	Ammoniacal Nitrogen (%)	0510	4.384	0.0000	4.421	0.1571	0.0351	22	-0.24	001.99	0
001	Ammoniacal Nitrogen (%)	0169	4.395	0.0300	4.421	0.1571	0.0351	22	-0.17	001.10	0
001	Ammoniacal Nitrogen (%)	0444	4.450	0.0800	4.421	0.1571	0.0351	22	0.18	001.10	0
001	Ammoniacal Nitrogen (%)	0368	4.470	0.1600	4.421	0.1571	0.0351	22	0.31	001.99	0
001	Ammoniacal Nitrogen (%)	0096	4.495	0.0100	4.421	0.1571	0.0351	22	0.47	001.99	0
001	Ammoniacal Nitrogen (%)	0456	4.500	0.0400	4.421	0.1571	0.0351	22	0.50	001.10	0
001	Ammoniacal Nitrogen (%)	0481	4.505	0.0300	4.421	0.1571	0.0351	22	0.53	001.10	0
001	Ammoniacal Nitrogen (%)	0519	4.555	0.0100	4.421	0.1571	0.0351	22	0.85	001.99	0
001	Ammoniacal Nitrogen (%)	0220	4.565	0.0500	4.421	0.1571	0.0351	22	0.91	001.99	0
001	Ammoniacal Nitrogen (%)	0486	4.640	0.0200	4.421	0.1571	0.0351	22	1.39	001.10	0
001	Ammoniacal Nitrogen (%)	0520	4.650	0.0200	4.421	0.1571	0.0351	22	1.46	001.99	0
001	Ammoniacal Nitrogen (%)	0506	4.675	0.0300	4.421	0.1571	0.0351	22	1.61	001.99	0
001	Ammoniacal Nitrogen (%)	0524	3.985	0.3300	4.421	0.1571	0.0351	22	-2.78	001.99	1
001	Ammoniacal Nitrogen (%)	0230	13.90	0.4000	4.421	0.1571	0.0351	22	60.33	001.10	2
003	Water Insoluble Nitrogen (%)	0500	4.880	0.0200				1		003.99	0
005	Urea Nitrogen (%)	0368	0.3170	0.0160	0.6453	0.1987	0.0137	7	-1.49	005.00	0
005	Urea Nitrogen (%)	0519	0.5400	0.0000	0.6453	0.1987	0.0137	7	-0.48	005.99	0
005	Urea Nitrogen (%)	0520	0.6300	0.0000	0.6453	0.1987	0.0137	7	-0.07	005.99	0
005	Urea Nitrogen (%)	0027	0.6450	0.0100	0.6453	0.1987	0.0137	7	0.00	005.00	0
005	Urea Nitrogen (%)	0356	0.6600	0.0200	0.6453	0.1987	0.0137	7	0.07	005.99	0
005	Urea Nitrogen (%)	0513	0.8150	0.0100	0.6453	0.1987	0.0137	7	0.77	005.99	0
005	Urea Nitrogen (%)	0506	0.8800	0.0400	0.6453	0.1987	0.0137	7	1.07	005.99	0
005	Urea Nitrogen (%)	0309	0.8350	0.0900	0.6453	0.1987	0.0137	7	0.86	005.99	1

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
007	Urea (%)	0486	0.6900	0.0200	1.280	0.5487	0.1333	3	-1.08	007.00	0
007	Urea (%)	0220	1.375	0.3500	1.280	0.5487	0.1333	3	0.17	007.99	0
007	Urea (%)	0513	1.775	0.0300	1.280	0.5487	0.1333	3	0.90	007.99	0
010	Total Nitrogen (5%)	0421	4.840	0.1000	5.185	0.1746	0.0672	71	-1.97	010.60	0
010	Total Nitrogen (5%)	0487	4.900	0.0000	5.185	0.1746	0.0672	71	-1.63	010.99	0
010	Total Nitrogen (5%)	0513	4.920	0.0400	5.185	0.1746	0.0672	71	-1.52	010.11	0
010	Total Nitrogen (5%)	0307	4.920	0.3400	5.185	0.1746	0.0672	71	-1.52	010.60	0
010	Total Nitrogen (5%)	0368	4.920	0.0800	5.185	0.1746	0.0672	71	-1.52	010.60	0
010	Total Nitrogen (5%)	0042	4.950	0.3000	5.185	0.1746	0.0672	71	-1.34	010.60	0
010	Total Nitrogen (5%)	0472	4.975	0.0100	5.185	0.1746	0.0672	71	-1.20	010.60	0
010	Total Nitrogen (5%)	0513	4.985	0.0500	5.185	0.1746	0.0672	71	-1.14	010.99	0
010	Total Nitrogen (5%)	0309	4.995	0.0300	5.185	0.1746	0.0672	71	-1.09	010.11	0
010	Total Nitrogen (5%)	0511	5.020	0.0000	5.185	0.1746	0.0672	71	-0.94	010.60	0
010	Total Nitrogen (5%)	0522	5.035	0.0100	5.185	0.1746	0.0672	71	-0.86	010.11	0
010	Total Nitrogen (5%)	0481	5.035	0.0500	5.185	0.1746	0.0672	71	-0.86	010.12	0
010	Total Nitrogen (5%)	0354	5.036	0.0130	5.185	0.1746	0.0672	71	-0.85	010.60	0
010	Total Nitrogen (5%)	0482	5.050	0.0400	5.185	0.1746	0.0672	71	-0.77	010.60	0
010	Total Nitrogen (5%)	0292	5.060	0.0200	5.185	0.1746	0.0672	71	-0.71	010.60	0
010	Total Nitrogen (5%)	0389	5.060	0.0200	5.185	0.1746	0.0672	71	-0.71	010.60	0
010	Total Nitrogen (5%)	0211	5.070	0.0200	5.185	0.1746	0.0672	71	-0.66	010.17	0
010	Total Nitrogen (5%)	0095	5.070	0.0400	5.185	0.1746	0.0672	71	-0.66	010.60	0
010	Total Nitrogen (5%)	0483	5.071	0.0180	5.185	0.1746	0.0672	71	-0.65	010.60	0
010	Total Nitrogen (5%)	0041	5.075	0.0700	5.185	0.1746	0.0672	71	-0.63	010.60	0
010	Total Nitrogen (5%)	0177	5.091	0.0630	5.185	0.1746	0.0672	71	-0.54	010.60	0
010	Total Nitrogen (5%)	0027	5.095	0.1100	5.185	0.1746	0.0672	71	-0.51	010.99	0
010	Total Nitrogen (5%)	0493	5.100	0.1000	5.185	0.1746	0.0672	71	-0.49	010.99	0
010	Total Nitrogen (5%)	0457	5.101	0.0100	5.185	0.1746	0.0672	71	-0.48	010.60	0
010	Total Nitrogen (5%)	0371	5.105	0.0300	5.185	0.1746	0.0672	71	-0.46	010.11	0
010	Total Nitrogen (5%)	0519	5.105	0.0100	5.185	0.1746	0.0672	71	-0.46	010.99	0
010	Total Nitrogen (5%)	0049	5.115	0.1100	5.185	0.1746	0.0672	71	-0.40	010.60	0
010	Total Nitrogen (5%)	0522	5.115	0.0500	5.185	0.1746	0.0672	71	-0.40	010.99	0
010	Total Nitrogen (5%)	0102	5.120	0.1200	5.185	0.1746	0.0672	71	-0.37	010.60	0
010	Total Nitrogen (5%)	0452	5.130	0.0200	5.185	0.1746	0.0672	71	-0.31	010.60	0
010	Total Nitrogen (5%)	0481	5.135	0.0500	5.185	0.1746	0.0672	71	-0.28	010.60	0
010	Total Nitrogen (5%)	0131	5.140	0.0800	5.185	0.1746	0.0672	71	-0.26	010.60	0
010	Total Nitrogen (5%)	0494	5.140	0.0200	5.185	0.1746	0.0672	71	-0.26	010.60	0
010	Total Nitrogen (5%)	0508	5.140	0.0400	5.185	0.1746	0.0672	71	-0.26	010.99	0
010	Total Nitrogen (5%)	0234	5.145	0.0300	5.185	0.1746	0.0672	71	-0.23	010.60	0
010	Total Nitrogen (5%)	0523	5.150	0.1000	5.185	0.1746	0.0672	71	-0.20	010.60	0
010	Total Nitrogen (5%)	0035	5.160	0.1200	5.185	0.1746	0.0672	71	-0.14	010.60	0
010	Total Nitrogen (5%)	0233	5.191	0.1590	5.185	0.1746	0.0672	71	0.03	010.60	0
010	Total Nitrogen (5%)	0422	5.200	0.0200	5.185	0.1746	0.0672	71	0.09	010.60	0
010	Total Nitrogen (5%)	0086	5.201	0.2241	5.185	0.1746	0.0672	71	0.09	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 (5%)	0105	5.220	0.0200	5.185	0.1746	0.0672	71	0.20	010.11	0
010	Total Nitrogen (5%)	0105	5.221	0.0325	5.185	0.1746	0.0672	71	0.21	010.60	0
010	Total Nitrogen (5%)	0055	5.230	0.0200	5.185	0.1746	0.0672	71	0.26	010.60	0
010	Total Nitrogen (5%)	0521	5.242	0.0000	5.185	0.1746	0.0672	71	0.33	010.60	0
010	Total Nitrogen (5%)	0136	5.250	0.0400	5.185	0.1746	0.0672	71	0.37	010.60	0
010	Total Nitrogen (5%)	0034	5.257	0.0410	5.185	0.1746	0.0672	71	0.41	010.60	0
010	Total Nitrogen (5%)	0231	5.260	0.0200	5.185	0.1746	0.0672	71	0.43	010.60	0
010	Total Nitrogen (5%)	0025	5.270	0.0050	5.185	0.1746	0.0672	71	0.49	010.60	0
010	Total Nitrogen (5%)	0023	5.272	0.0073	5.185	0.1746	0.0672	71	0.50	010.60	0
010	Total Nitrogen (5%)	0451	5.278	0.0980	5.185	0.1746	0.0672	71	0.53	010.60	0
010	Total Nitrogen (5%)	0520	5.280	0.0200	5.185	0.1746	0.0672	71	0.55	010.99	0
010	Total Nitrogen (5%)	0073	5.280	0.1000	5.185	0.1746	0.0672	71	0.55	010.60	0
010	Total Nitrogen (5%)	0157	5.285	0.0100	5.185	0.1746	0.0672	71	0.57	010.60	0
010	Total Nitrogen (5%)	0291	5.295	0.0100	5.185	0.1746	0.0672	71	0.63	010.60	0
010	Total Nitrogen (5%)	0029	5.306	0.0080	5.185	0.1746	0.0672	71	0.69	010.60	0
010	Total Nitrogen (5%)	0420	5.325	0.2300	5.185	0.1746	0.0672	71	0.80	010.99	0
010	Total Nitrogen (5%)	0524	5.330	0.0400	5.185	0.1746	0.0672	71	0.83	010.99	0
010	Total Nitrogen (5%)	0007	5.350	0.3000	5.185	0.1746	0.0672	71	0.95	010.60	0
010	Total Nitrogen (5%)	0040	5.350	0.1000	5.185	0.1746	0.0672	71	0.95	010.60	0
010	Total Nitrogen (5%)	0324	5.360	0.0600	5.185	0.1746	0.0672	71	1.00	010.60	0
010	Total Nitrogen (5%)	0090	5.360	0.1600	5.185	0.1746	0.0672	71	1.00	010.11	0
010	Total Nitrogen (5%)	0510	5.375	0.0000	5.185	0.1746	0.0672	71	1.09	010.11	0
010	Total Nitrogen (5%)	0444	5.410	0.1600	5.185	0.1746	0.0672	71	1.29	010.60	0
010	Total Nitrogen (5%)	0325	5.420	0.0400	5.185	0.1746	0.0672	71	1.35	010.60	0
010	Total Nitrogen (5%)	0096	5.440	0.0400	5.185	0.1746	0.0672	71	1.46	010.60	0
010	Total Nitrogen (5%)	0486	5.440	0.0200	5.185	0.1746	0.0672	71	1.46	010.60	0
010	Total Nitrogen (5%)	0072	5.450	0.1000	5.185	0.1746	0.0672	71	1.52	010.60	0
010	Total Nitrogen (5%)	0506	5.555	0.0700	5.185	0.1746	0.0672	71	2.12	010.99	0
010	Total Nitrogen (5%)	0260	5.620	0.0200	5.185	0.1746	0.0672	71	2.49	010.60	0
010	Total Nitrogen (5%)	0220	5.645	0.0900	5.185	0.1746	0.0672	71	2.64	010.11	0
010	Total Nitrogen (5%)	0360	5.785	0.1900	5.185	0.1746	0.0672	71	3.44	010.60	0
010	Total Nitrogen (5%)	0230	5.300	0.6200	5.185	0.1746	0.0672	71	0.66	010.60	1
010	Total Nitrogen (5%)	0356	3.560*	0.0000	5.185	0.1746	0.0672	71	-9.30	010.60	2
020	Total Phosphorus as P2O5 (%)	0096	11.08	0.1400	19.59	0.5583	0.2566	51	-15.25	020.40	0
020	Total Phosphorus as P2O5 (%)	0157	18.30	0.2000	19.59	0.5583	0.2566	51	-2.32	020.50	0
020	Total Phosphorus as P2O5 (%)	0523	18.75	0.5000	19.59	0.5583	0.2566	51	-1.51	020.50	0
020	Total Phosphorus as P2O5 (%)	0472	18.79	0.1400	19.59	0.5583	0.2566	51	-1.44	020.50	0
020	Total Phosphorus as P2O5 (%)	0389	18.87	0.2400	19.59	0.5583	0.2566	51	-1.30	020.50	0
020	Total Phosphorus as P2O5 (%)	0415	18.90	0.0126	19.59	0.5583	0.2566	51	-1.25	020.20	0
020	Total Phosphorus as P2O5 (%)	0309	19.05	0.5500	19.59	0.5583	0.2566	51	-0.98	020.20	0
020	Total Phosphorus as P2O5 (%)	0524	19.11	0.5429	19.59	0.5583	0.2566	51	-0.87	020.50	0
020	Total Phosphorus as P2O5 (%)	0371	19.14	0.0200	19.59	0.5583	0.2566	51	-0.81	020.20	0
020	Total Phosphorus as P2O5 (%)	0042	19.15	0.5000	19.59	0.5583	0.2566	51	-0.80	020.40	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 (%)	0444	19.23	0.1500	19.59	0.5583	0.2566	51	-0.66	020.10	0
020	Total Phosphorus as P2O5 (%)	0169	19.23	0.0500	19.59	0.5583	0.2566	51	-0.66	020.20	0
020	Total Phosphorus as P2O5 (%)	0444	19.23	0.1500	19.59	0.5583	0.2566	51	-0.66	020.50	0
020	Total Phosphorus as P2O5 (%)	0481	19.26	0.0000	19.59	0.5583	0.2566	51	-0.60	020.20	0
020	Total Phosphorus as P2O5 (%)	0494	19.27	0.4500	19.59	0.5583	0.2566	51	-0.59	020.10	0
020	Total Phosphorus as P2O5 (%)	0487	19.35	0.1000	19.59	0.5583	0.2566	51	-0.44	020.99	0
020	Total Phosphorus as P2O5 (%)	0177	19.36	0.0019	19.59	0.5583	0.2566	51	-0.42	020.20	0
020	Total Phosphorus as P2O5 (%)	0157	19.40	0.2000	19.59	0.5583	0.2566	51	-0.35	020.10	0
020	Total Phosphorus as P2O5 (%)	0500	19.41	0.0100	19.59	0.5583	0.2566	51	-0.34	020.40	0
020	Total Phosphorus as P2O5 (%)	0513	19.43	0.0200	19.59	0.5583	0.2566	51	-0.30	020.99	0
020	Total Phosphorus as P2O5 (%)	0522	19.44	1.030	19.59	0.5583	0.2566	51	-0.29	020.20	0
020	Total Phosphorus as P2O5 (%)	0457	19.46	0.1900	19.59	0.5583	0.2566	51	-0.25	020.20	0
020	Total Phosphorus as P2O5 (%)	0234	19.47	0.3500	19.59	0.5583	0.2566	51	-0.23	020.50	0
020	Total Phosphorus as P2O5 (%)	0105	19.48	0.0000	19.59	0.5583	0.2566	51	-0.21	020.40	0
020	Total Phosphorus as P2O5 (%)	0456	19.52	0.0300	19.59	0.5583	0.2566	51	-0.14	020.40	0
020	Total Phosphorus as P2O5 (%)	0324	19.60	0.2000	19.59	0.5583	0.2566	51	0.01	020.20	0
020	Total Phosphorus as P2O5 (%)	0356	19.62	0.3100	19.59	0.5583	0.2566	51	0.04	020.20	0
020	Total Phosphorus as P2O5 (%)	0105	19.63	0.1700	19.59	0.5583	0.2566	51	0.05	020.10	0
020	Total Phosphorus as P2O5 (%)	0049	19.64	0.2800	19.59	0.5583	0.2566	51	0.08	020.10	0
020	Total Phosphorus as P2O5 (%)	0231	19.64	0.0600	19.59	0.5583	0.2566	51	0.08	020.20	0
020	Total Phosphorus as P2O5 (%)	0506	19.70	0.8000	19.59	0.5583	0.2566	51	0.19	020.20	0
020	Total Phosphorus as P2O5 (%)	0428	19.72	0.1980	19.59	0.5583	0.2566	51	0.22	020.20	0
020	Total Phosphorus as P2O5 (%)	0433	19.72	0.0320	19.59	0.5583	0.2566	51	0.23	020.50	0
020	Total Phosphorus as P2O5 (%)	0211	19.75	0.0800	19.59	0.5583	0.2566	51	0.28	020.10	0
020	Total Phosphorus as P2O5 (%)	0482	19.80	1.200	19.59	0.5583	0.2566	51	0.37	020.50	0
020	Total Phosphorus as P2O5 (%)	0451	19.84	0.3700	19.59	0.5583	0.2566	51	0.43	020.50	0
020	Total Phosphorus as P2O5 (%)	0493	19.85	0.1000	19.59	0.5583	0.2566	51	0.46	020.10	0
020	Total Phosphorus as P2O5 (%)	0508	19.87	0.1300	19.59	0.5583	0.2566	51	0.48	020.50	0
020	Total Phosphorus as P2O5 (%)	0090	19.88	0.0500	19.59	0.5583	0.2566	51	0.50	020.10	0
020	Total Phosphorus as P2O5 (%)	0292	19.89	0.0100	19.59	0.5583	0.2566	51	0.52	020.20	0
020	Total Phosphorus as P2O5 (%)	0368	19.96	0.3260	19.59	0.5583	0.2566	51	0.65	020.50	0
020	Total Phosphorus as P2O5 (%)	0510	20.01	0.0159	19.59	0.5583	0.2566	51	0.74	020.20	0
020	Total Phosphorus as P2O5 (%)	0520	20.16	0.0100	19.59	0.5583	0.2566	51	1.00	020.99	0
020	Total Phosphorus as P2O5 (%)	0420	20.29	0.3800	19.59	0.5583	0.2566	51	1.25	020.20	0
020	Total Phosphorus as P2O5 (%)	0307	20.47	0.3390	19.59	0.5583	0.2566	51	1.57	020.50	0
020	Total Phosphorus as P2O5 (%)	0452	20.56	0.0300	19.59	0.5583	0.2566	51	1.72	020.50	0
020	Total Phosphorus as P2O5 (%)	0035	20.60	2.060	19.59	0.5583	0.2566	51	1.80	020.40	0
020	Total Phosphorus as P2O5 (%)	0483	20.73	0.1100	19.59	0.5583	0.2566	51	2.02	020.50	0
020	Total Phosphorus as P2O5 (%)	0422	22.27	0.2000	19.59	0.5583	0.2566	51	4.79	020.50	0
020	Total Phosphorus as P2O5 (%)	0421	24.53	0.0500	19.59	0.5583	0.2566	51	8.83	020.50	0
020	Total Phosphorus as P2O5 (%)	0521	27.00	0.0000	19.59	0.5583	0.2566	51	13.26	020.50	0
020	Total Phosphorus as P2O5 (%)	0260	23.98	4.570	19.59	0.5583	0.2566	51	7.85	020.50	1
041	Direct Available Phosphorus as P2O5 (20%)	0472	11.74*	0.1600	19.39	0.3884	0.1830	31	-19.69	041.60	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				
041	Direct Available Phosphorus as P2O5 (20%)	0230	12.90*	1.200	19.39	0.3884	0.1830	31	-16.71	041.60	0
041	Direct Available Phosphorus as P2O5 (20%)	0486	17.58*	0.1300	19.39	0.3884	0.1830	31	-4.67	041.60	0
041	Direct Available Phosphorus as P2O5 (20%)	0007	18.55*	0.7000	19.39	0.3884	0.1830	31	-2.16	041.50	0
041	Direct Available Phosphorus as P2O5 (20%)	0117	18.87	0.1900	19.39	0.3884	0.1830	31	-1.35	041.51	0
041	Direct Available Phosphorus as P2O5 (20%)	0220	19.04	0.0000	19.39	0.3884	0.1830	31	-0.90	041.11	0
041	Direct Available Phosphorus as P2O5 (20%)	0029	19.05	0.0700	19.39	0.3884	0.1830	31	-0.88	041.60	0
041	Direct Available Phosphorus as P2O5 (20%)	0494	19.05	0.3000	19.39	0.3884	0.1830	31	-0.87	041.51	0
041	Direct Available Phosphorus as P2O5 (20%)	0360	19.10	0.0700	19.39	0.3884	0.1830	31	-0.76	041.51	0
041	Direct Available Phosphorus as P2O5 (20%)	0055	19.35	0.0800	19.39	0.3884	0.1830	31	-0.10	041.11	0
041	Direct Available Phosphorus as P2O5 (20%)	0027	19.36	0.1530	19.39	0.3884	0.1830	31	-0.08	041.20	0
041	Direct Available Phosphorus as P2O5 (20%)	0073	19.41	0.3300	19.39	0.3884	0.1830	31	0.04	041.60	0
041	Direct Available Phosphorus as P2O5 (20%)	0105	19.43	0.0600	19.39	0.3884	0.1830	31	0.11	041.60	0
041	Direct Available Phosphorus as P2O5 (20%)	0025	19.47	0.3430	19.39	0.3884	0.1830	31	0.21	041.51	0
041	Direct Available Phosphorus as P2O5 (20%)	0377	19.48	0.3500	19.39	0.3884	0.1830	31	0.22	041.51	0
041	Direct Available Phosphorus as P2O5 (20%)	0513	19.50	0.0800	19.39	0.3884	0.1830	31	0.29	041.60	0
041	Direct Available Phosphorus as P2O5 (20%)	0105	19.51	0.0700	19.39	0.3884	0.1830	31	0.30	041.99	0
041	Direct Available Phosphorus as P2O5 (20%)	0519	19.51	0.0100	19.39	0.3884	0.1830	31	0.30	041.20	0
041	Direct Available Phosphorus as P2O5 (20%)	0522	19.52	0.1700	19.39	0.3884	0.1830	31	0.33	041.21	0
041	Direct Available Phosphorus as P2O5 (20%)	0034	19.52	0.0190	19.39	0.3884	0.1830	31	0.35	041.60	0
041	Direct Available Phosphorus as P2O5 (20%)	0095	19.53	0.0300	19.39	0.3884	0.1830	31	0.35	041.40	0
041	Direct Available Phosphorus as P2O5 (20%)	0105	19.54	0.0400	19.39	0.3884	0.1830	31	0.39	041.11	0
041	Direct Available Phosphorus as P2O5 (20%)	0086	19.54	0.0463	19.39	0.3884	0.1830	31	0.39	041.10	0
041	Direct Available Phosphorus as P2O5 (20%)	0040	19.55	0.1000	19.39	0.3884	0.1830	31	0.42	041.10	0
041	Direct Available Phosphorus as P2O5 (20%)	0368	19.63	0.0670	19.39	0.3884	0.1830	31	0.62	041.50	0
041	Direct Available Phosphorus as P2O5 (20%)	0231	19.64	0.0800	19.39	0.3884	0.1830	31	0.65	041.60	0
041	Direct Available Phosphorus as P2O5 (20%)	0136	19.65	0.0100	19.39	0.3884	0.1830	31	0.66	041.60	0
041	Direct Available Phosphorus as P2O5 (20%)	0131	19.84	0.2400	19.39	0.3884	0.1830	31	1.16	041.40	0
041	Direct Available Phosphorus as P2O5 (20%)	0354	19.86	0.0340	19.39	0.3884	0.1830	31	1.20	041.60	0
041	Direct Available Phosphorus as P2O5 (20%)	0102	19.95	0.5000	19.39	0.3884	0.1830	31	1.45	041.10	0
041	Direct Available Phosphorus as P2O5 (20%)	0023	19.97	0.0400	19.39	0.3884	0.1830	31	1.50	041.51	0
041	Direct Available Phosphorus as P2O5 (20%)	0511	19.34	1.530	19.39	0.3884	0.1830	31	-0.14	041.51	1
041	Direct Available Phosphorus as P2O5 (20%)	0325	20.40	1.600	19.39	0.3884	0.1830	31	2.60	041.50	1
048	Water Soluble Phosphorus as P2O5 (%)	0420	11.49	0.2400	17.06	3.363	0.1112	5	-1.66	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0513	16.48	0.0300	17.06	3.363	0.1112	5	-0.17	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0415	18.21	0.0262	17.06	3.363	0.1112	5	0.34	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0520	19.56	0.0100	17.06	3.363	0.1112	5	0.74	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0444	19.58	0.2500	17.06	3.363	0.1112	5	0.75	048.50	0
050	Soluble Potassium as K2O (4%)	0041	3.325*	0.2300	3.963	0.2257	0.0760	76	-2.82	050.60	0
050	Soluble Potassium as K2O (4%)	0500	3.470*	0.0000	3.963	0.2257	0.0760	76	-2.18	050.99	0
050	Soluble Potassium as K2O (4%)	0456	3.520*	0.1600	3.963	0.2257	0.0760	76	-1.96	050.61	0
050	Soluble Potassium as K2O (4%)	0055	3.575	0.0460	3.963	0.2257	0.0760	76	-1.72	050.50	0
050	Soluble Potassium as K2O (4%)	0136	3.640	0.0800	3.963	0.2257	0.0760	76	-1.43	050.30	0
050	Soluble Potassium as K2O (4%)	0040	3.650	0.1000	3.963	0.2257	0.0760	76	-1.39	050.30	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				
050	Soluble Potassium as K2O (4%)	0405	3.690	0.0200	3.963	0.2257	0.0760	76	-1.21	050.00	0
050	Soluble Potassium as K2O (4%)	0034	3.717	0.2330	3.963	0.2257	0.0760	76	-1.09	050.62	0
050	Soluble Potassium as K2O (4%)	0029	3.720	0.0200	3.963	0.2257	0.0760	76	-1.07	050.62	0
050	Soluble Potassium as K2O (4%)	0157	3.730	0.1800	3.963	0.2257	0.0760	76	-1.03	050.50	0
050	Soluble Potassium as K2O (4%)	0007	3.750	0.1000	3.963	0.2257	0.0760	76	-0.94	050.51	0
050	Soluble Potassium as K2O (4%)	0523	3.750	0.1000	3.963	0.2257	0.0760	76	-0.94	050.99	0
050	Soluble Potassium as K2O (4%)	0105	3.770	0.0400	3.963	0.2257	0.0760	76	-0.85	050.62	0
050	Soluble Potassium as K2O (4%)	0090	3.785	0.0500	3.963	0.2257	0.0760	76	-0.79	050.00	0
050	Soluble Potassium as K2O (4%)	0096	3.805	0.0100	3.963	0.2257	0.0760	76	-0.70	050.99	0
050	Soluble Potassium as K2O (4%)	0105	3.810	0.0000	3.963	0.2257	0.0760	76	-0.68	050.99	0
050	Soluble Potassium as K2O (4%)	0482	3.810	0.2000	3.963	0.2257	0.0760	76	-0.68	050.99	0
050	Soluble Potassium as K2O (4%)	0025	3.815	0.0410	3.963	0.2257	0.0760	76	-0.66	050.52	0
050	Soluble Potassium as K2O (4%)	0105	3.815	0.0100	3.963	0.2257	0.0760	76	-0.65	050.60	0
050	Soluble Potassium as K2O (4%)	0524	3.819	0.1145	3.963	0.2257	0.0760	76	-0.64	050.99	0
050	Soluble Potassium as K2O (4%)	0231	3.825	0.0500	3.963	0.2257	0.0760	76	-0.61	050.00	0
050	Soluble Potassium as K2O (4%)	0483	3.830	0.0800	3.963	0.2257	0.0760	76	-0.59	050.51	0
050	Soluble Potassium as K2O (4%)	0513	3.835	0.0700	3.963	0.2257	0.0760	76	-0.57	050.62	0
050	Soluble Potassium as K2O (4%)	0230	3.860	0.1200	3.963	0.2257	0.0760	76	-0.45	050.50	0
050	Soluble Potassium as K2O (4%)	0292	3.865	0.0500	3.963	0.2257	0.0760	76	-0.43	050.50	0
050	Soluble Potassium as K2O (4%)	0211	3.870	0.0400	3.963	0.2257	0.0760	76	-0.41	050.00	0
050	Soluble Potassium as K2O (4%)	0291	3.870	0.0000	3.963	0.2257	0.0760	76	-0.41	050.51	0
050	Soluble Potassium as K2O (4%)	0157	3.875	0.0300	3.963	0.2257	0.0760	76	-0.39	050.30	0
050	Soluble Potassium as K2O (4%)	0422	3.880	0.0200	3.963	0.2257	0.0760	76	-0.37	050.50	0
050	Soluble Potassium as K2O (4%)	0493	3.880	0.1000	3.963	0.2257	0.0760	76	-0.37	050.99	0
050	Soluble Potassium as K2O (4%)	0433	3.897	0.0530	3.963	0.2257	0.0760	76	-0.29	050.99	0
050	Soluble Potassium as K2O (4%)	0457	3.900	0.0390	3.963	0.2257	0.0760	76	-0.28	050.99	0
050	Soluble Potassium as K2O (4%)	0102	3.900	0.2000	3.963	0.2257	0.0760	76	-0.28	050.00	0
050	Soluble Potassium as K2O (4%)	0095	3.900	0.0000	3.963	0.2257	0.0760	76	-0.28	050.62	0
050	Soluble Potassium as K2O (4%)	0360	3.920	0.0200	3.963	0.2257	0.0760	76	-0.19	050.52	0
050	Soluble Potassium as K2O (4%)	0377	3.920	0.0200	3.963	0.2257	0.0760	76	-0.19	050.52	0
050	Soluble Potassium as K2O (4%)	0177	3.924	0.0143	3.963	0.2257	0.0760	76	-0.17	050.99	0
050	Soluble Potassium as K2O (4%)	0117	3.925	0.0740	3.963	0.2257	0.0760	76	-0.17	050.52	0
050	Soluble Potassium as K2O (4%)	0522	3.930	0.0200	3.963	0.2257	0.0760	76	-0.14	050.00	0
050	Soluble Potassium as K2O (4%)	0389	3.945	0.0300	3.963	0.2257	0.0760	76	-0.08	050.99	0
050	Soluble Potassium as K2O (4%)	0368	3.946	0.0787	3.963	0.2257	0.0760	76	-0.07	050.99	0
050	Soluble Potassium as K2O (4%)	0487	3.950	0.1000	3.963	0.2257	0.0760	76	-0.06	050.99	0
050	Soluble Potassium as K2O (4%)	0324	3.960	0.0000	3.963	0.2257	0.0760	76	-0.01	050.50	0
050	Soluble Potassium as K2O (4%)	0220	3.970	0.0000	3.963	0.2257	0.0760	76	0.03	050.00	0
050	Soluble Potassium as K2O (4%)	0511	3.975	0.3100	3.963	0.2257	0.0760	76	0.05	050.51	0
050	Soluble Potassium as K2O (4%)	0520	3.985	0.0100	3.963	0.2257	0.0760	76	0.10	050.99	0
050	Soluble Potassium as K2O (4%)	0506	3.995	0.1900	3.963	0.2257	0.0760	76	0.14	050.99	0
050	Soluble Potassium as K2O (4%)	0042	4.000	0.0000	3.963	0.2257	0.0760	76	0.17	050.99	0
050	Soluble Potassium as K2O (4%)	0472	4.010	0.0400	3.963	0.2257	0.0760	76	0.21	050.31	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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050	Soluble Potassium as K2O (4%)	0234	4.010	0.0400	3.963	0.2257	0.0760	76	0.21	050.99	0
050	Soluble Potassium as K2O (4%)	0131	4.025	0.0300	3.963	0.2257	0.0760	76	0.28	050.61	0
050	Soluble Potassium as K2O (4%)	0023	4.045	0.1100	3.963	0.2257	0.0760	76	0.36	050.52	0
050	Soluble Potassium as K2O (4%)	0307	4.049	0.0210	3.963	0.2257	0.0760	76	0.38	050.99	0
050	Soluble Potassium as K2O (4%)	0486	4.050	0.1000	3.963	0.2257	0.0760	76	0.39	050.52	0
050	Soluble Potassium as K2O (4%)	0519	4.080	0.0000	3.963	0.2257	0.0760	76	0.52	050.99	0
050	Soluble Potassium as K2O (4%)	0055	4.095	0.0100	3.963	0.2257	0.0760	76	0.59	050.00	0
050	Soluble Potassium as K2O (4%)	0073	4.095	0.0900	3.963	0.2257	0.0760	76	0.59	050.30	0
050	Soluble Potassium as K2O (4%)	0444	4.135	0.1300	3.963	0.2257	0.0760	76	0.76	050.50	0
050	Soluble Potassium as K2O (4%)	0452	4.150	0.0800	3.963	0.2257	0.0760	76	0.83	050.51	0
050	Soluble Potassium as K2O (4%)	0325	4.150	0.3000	3.963	0.2257	0.0760	76	0.83	050.99	0
050	Soluble Potassium as K2O (4%)	0494	4.185	0.0300	3.963	0.2257	0.0760	76	0.99	050.52	0
050	Soluble Potassium as K2O (4%)	0510	4.190	0.0000	3.963	0.2257	0.0760	76	1.01	050.60	0
050	Soluble Potassium as K2O (4%)	0035	4.200	0.2000	3.963	0.2257	0.0760	76	1.05	050.61	0
050	Soluble Potassium as K2O (4%)	0494	4.205	0.0500	3.963	0.2257	0.0760	76	1.07	050.00	0
050	Soluble Potassium as K2O (4%)	0049	4.225	0.0700	3.963	0.2257	0.0760	76	1.16	050.00	0
050	Soluble Potassium as K2O (4%)	0451	4.225	0.0900	3.963	0.2257	0.0760	76	1.16	050.99	0
050	Soluble Potassium as K2O (4%)	0508	4.250	0.0800	3.963	0.2257	0.0760	76	1.27	050.99	0
050	Soluble Potassium as K2O (4%)	0169	4.280	0.0400	3.963	0.2257	0.0760	76	1.41	050.60	0
050	Soluble Potassium as K2O (4%)	0027	4.296	0.1810	3.963	0.2257	0.0760	76	1.47	050.99	0
050	Soluble Potassium as K2O (4%)	0428	4.315	0.3020	3.963	0.2257	0.0760	76	1.56	050.30	0
050	Soluble Potassium as K2O (4%)	0354	4.322	0.0340	3.963	0.2257	0.0760	76	1.59	050.52	0
050	Soluble Potassium as K2O (4%)	0421	4.815	0.2000	3.963	0.2257	0.0760	76	3.78	050.99	0
050	Soluble Potassium as K2O (4%)	0356	4.890	0.0600	3.963	0.2257	0.0760	76	4.11	050.30	0
050	Soluble Potassium as K2O (4%)	0420	5.182	0.0030	3.963	0.2257	0.0760	76	5.40	050.50	0
050	Soluble Potassium as K2O (4%)	0481	5.565	0.0300	3.963	0.2257	0.0760	76	7.10	050.99	0
050	Soluble Potassium as K2O (4%)	0521	5.570	0.0000	3.963	0.2257	0.0760	76	7.12	050.99	0
050	Soluble Potassium as K2O (4%)	0309	3.610	0.5400	3.963	0.2257	0.0760	76	-1.56	050.30	1
050	Soluble Potassium as K2O (4%)	0260	5.145	1.090	3.963	0.2257	0.0760	76	5.24	050.51	1
101	Acid Soluble Calcium (%)	0102	0.0122	0.0021	0.0188	0.0062	0.0047	14	-1.07	101.30	0
101	Acid Soluble Calcium (%)	0117	0.0140	0.0024	0.0188	0.0062	0.0047	14	-0.78	101.33	0
101	Acid Soluble Calcium (%)	0105	0.0148	0.0012	0.0188	0.0062	0.0047	14	-0.65	101.00	0
101	Acid Soluble Calcium (%)	0472	0.0150	0.0100	0.0188	0.0062	0.0047	14	-0.61	101.30	0
101	Acid Soluble Calcium (%)	0420	0.0151	0.0004	0.0188	0.0062	0.0047	14	-0.60	101.30	0
101	Acid Soluble Calcium (%)	0494	0.0159	0.0009	0.0188	0.0062	0.0047	14	-0.48	101.33	0
101	Acid Soluble Calcium (%)	0105	0.0166	0.0009	0.0188	0.0062	0.0047	14	-0.36	101.03	0
101	Acid Soluble Calcium (%)	0389	0.0175	0.0050	0.0188	0.0062	0.0047	14	-0.21	101.99	0
101	Acid Soluble Calcium (%)	0521	0.0185	0.0000	0.0188	0.0062	0.0047	14	-0.05	101.32	0
101	Acid Soluble Calcium (%)	0096	0.0195	0.0010	0.0188	0.0062	0.0047	14	0.11	101.30	0
101	Acid Soluble Calcium (%)	0482	0.0200	0.0000	0.0188	0.0062	0.0047	14	0.19	101.30	0
101	Acid Soluble Calcium (%)	0035	0.0295	0.0230	0.0188	0.0062	0.0047	14	1.73	101.30	0
101	Acid Soluble Calcium (%)	0421	0.0300	0.0000	0.0188	0.0062	0.0047	14	1.81	101.33	0
101	Acid Soluble Calcium (%)	0354	0.1175	0.0190	0.0188	0.0062	0.0047	14	15.92	101.30	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				
101	Acid Soluble Calcium (%)	0483	0.2300	0.0600	0.0188	0.0062	0.0047	14	34.07	101.30	1
121	Acid Soluble Magnesium (0.05%)	0042	0.0640	0.0020	0.1222	0.0126	0.0042	44	-4.63	121.99	0
121	Acid Soluble Magnesium (0.05%)	0519	0.0650	0.0100	0.1222	0.0126	0.0042	44	-4.55	121.30	0
121	Acid Soluble Magnesium (0.05%)	0307	0.0700	0.0060	0.1222	0.0126	0.0042	44	-4.15	121.30	0
121	Acid Soluble Magnesium (0.05%)	0506	0.0800	0.0000	0.1222	0.0126	0.0042	44	-3.36	121.99	0
121	Acid Soluble Magnesium (0.05%)	0520	0.0965	0.0010	0.1222	0.0126	0.0042	44	-2.04	121.99	0
121	Acid Soluble Magnesium (0.05%)	0027	0.1055	0.0010	0.1222	0.0126	0.0042	44	-1.33	121.99	0
121	Acid Soluble Magnesium (0.05%)	0515	0.1100	0.0051	0.1222	0.0126	0.0042	44	-0.98	121.33	0
121	Acid Soluble Magnesium (0.05%)	0105	0.1118	0.0037	0.1222	0.0126	0.0042	44	-0.83	121.03	0
121	Acid Soluble Magnesium (0.05%)	0324	0.1125	0.0030	0.1222	0.0126	0.0042	44	-0.77	121.30	0
121	Acid Soluble Magnesium (0.05%)	0055	0.1150	0.0100	0.1222	0.0126	0.0042	44	-0.57	121.30	0
121	Acid Soluble Magnesium (0.05%)	0231	0.1150	0.0100	0.1222	0.0126	0.0042	44	-0.57	121.30	0
121	Acid Soluble Magnesium (0.05%)	0524	0.1157	0.0001	0.1222	0.0126	0.0042	44	-0.52	121.99	0
121	Acid Soluble Magnesium (0.05%)	0230	0.1165	0.0010	0.1222	0.0126	0.0042	44	-0.46	121.30	0
121	Acid Soluble Magnesium (0.05%)	0035	0.1170	0.0040	0.1222	0.0126	0.0042	44	-0.42	121.30	0
121	Acid Soluble Magnesium (0.05%)	0105	0.1195	0.0047	0.1222	0.0126	0.0042	44	-0.22	121.00	0
121	Acid Soluble Magnesium (0.05%)	0377	0.1195	0.0070	0.1222	0.0126	0.0042	44	-0.22	121.30	0
121	Acid Soluble Magnesium (0.05%)	0029	0.1199	0.0023	0.1222	0.0126	0.0042	44	-0.19	121.00	0
121	Acid Soluble Magnesium (0.05%)	0220	0.1200	0.0000	0.1222	0.0126	0.0042	44	-0.18	121.30	0
121	Acid Soluble Magnesium (0.05%)	0234	0.1200	0.0000	0.1222	0.0126	0.0042	44	-0.18	121.30	0
121	Acid Soluble Magnesium (0.05%)	0360	0.1200	0.0000	0.1222	0.0126	0.0042	44	-0.18	121.30	0
121	Acid Soluble Magnesium (0.05%)	0452	0.1200	0.0000	0.1222	0.0126	0.0042	44	-0.18	121.30	0
121	Acid Soluble Magnesium (0.05%)	0157	0.1220	0.0020	0.1222	0.0126	0.0042	44	-0.02	121.30	0
121	Acid Soluble Magnesium (0.05%)	0354	0.1220	0.0140	0.1222	0.0126	0.0042	44	-0.02	121.30	0
121	Acid Soluble Magnesium (0.05%)	0457	0.1230	0.0020	0.1222	0.0126	0.0042	44	0.06	121.00	0
121	Acid Soluble Magnesium (0.05%)	0117	0.1245	0.0043	0.1222	0.0126	0.0042	44	0.18	121.33	0
121	Acid Soluble Magnesium (0.05%)	0095	0.1250	0.0100	0.1222	0.0126	0.0042	44	0.22	121.30	0
121	Acid Soluble Magnesium (0.05%)	0096	0.1250	0.0100	0.1222	0.0126	0.0042	44	0.22	121.30	0
121	Acid Soluble Magnesium (0.05%)	0482	0.1250	0.0100	0.1222	0.0126	0.0042	44	0.22	121.30	0
121	Acid Soluble Magnesium (0.05%)	0389	0.1265	0.0010	0.1222	0.0126	0.0042	44	0.34	121.99	0
121	Acid Soluble Magnesium (0.05%)	0102	0.1268	0.0001	0.1222	0.0126	0.0042	44	0.36	121.30	0
121	Acid Soluble Magnesium (0.05%)	0040	0.1270	0.0020	0.1222	0.0126	0.0042	44	0.38	121.00	0
121	Acid Soluble Magnesium (0.05%)	0037	0.1275	0.0050	0.1222	0.0126	0.0042	44	0.42	121.33	0
121	Acid Soluble Magnesium (0.05%)	0368	0.1284	0.0015	0.1222	0.0126	0.0042	44	0.49	121.30	0
121	Acid Soluble Magnesium (0.05%)	0444	0.1300	0.0000	0.1222	0.0126	0.0042	44	0.62	121.30	0
121	Acid Soluble Magnesium (0.05%)	0523	0.1300	0.0000	0.1222	0.0126	0.0042	44	0.62	121.99	0
121	Acid Soluble Magnesium (0.05%)	0515	0.1310	0.0197	0.1222	0.0126	0.0042	44	0.69	121.99	0
121	Acid Soluble Magnesium (0.05%)	0433	0.1317	0.0042	0.1222	0.0126	0.0042	44	0.75	121.30	0
121	Acid Soluble Magnesium (0.05%)	0157	0.1330	0.0000	0.1222	0.0126	0.0042	44	0.86	121.00	0
121	Acid Soluble Magnesium (0.05%)	0511	0.1400	0.0000	0.1222	0.0126	0.0042	44	1.41	121.30	0
121	Acid Soluble Magnesium (0.05%)	0521	0.1442	0.0000	0.1222	0.0126	0.0042	44	1.75	121.32	0
121	Acid Soluble Magnesium (0.05%)	0483	0.1715	0.0070	0.1222	0.0126	0.0042	44	3.91	121.30	0
121	Acid Soluble Magnesium (0.05%)	0420	0.2001	0.0004	0.1222	0.0126	0.0042	44	6.19	121.30	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				
121	Acid Soluble Magnesium (0.05%)	0481	0.2100	0.0000	0.1222	0.0126	0.0042	44	6.97	121.00	0
121	Acid Soluble Magnesium (0.05%)	0494	1.299	0.0190	0.1222	0.0126	0.0042	44	93.45	121.33	0
121	Acid Soluble Magnesium (0.05%)	0472	0.0500	0.0600	0.1222	0.0126	0.0042	44	-5.74	121.30	1
121	Acid Soluble Magnesium (0.05%)	0421	0.2700	0.0400	0.1222	0.0126	0.0042	44	11.74	121.33	1
121	Acid Soluble Magnesium (0.05%)	0291	19.57	0.0200	0.1222	0.0126	0.0042	44	1545.10	121.30	2
131	Water Soluble Magnesium (%)	0444	0.1100	0.0000				2		131.30	0
131	Water Soluble Magnesium (%)	0220	0.1200	0.0000				2		131.30	0
143	Elemental Sulfur (%)	0472	0.5700	0.0200				2		143.99	0
143	Elemental Sulfur (%)	0389	0.5820	0.0020				2		143.99	0
148	Total Sulfur (%)	0307	0.4295	0.0410	0.5508	0.0854	0.0199	12	-1.42	148.99	0
148	Total Sulfur (%)	0292	0.4950	0.0100	0.5508	0.0854	0.0199	12	-0.65	148.07	0
148	Total Sulfur (%)	0096	0.5024	0.0047	0.5508	0.0854	0.0199	12	-0.57	148.99	0
148	Total Sulfur (%)	0354	0.5125	0.0050	0.5508	0.0854	0.0199	12	-0.45	148.99	0
148	Total Sulfur (%)	0117	0.5204	0.0328	0.5508	0.0854	0.0199	12	-0.36	148.07	0
148	Total Sulfur (%)	0494	0.5306	0.0454	0.5508	0.0854	0.0199	12	-0.24	148.07	0
148	Total Sulfur (%)	0457	0.5361	0.0001	0.5508	0.0854	0.0199	12	-0.17	148.01	0
148	Total Sulfur (%)	0482	0.5400	0.0400	0.5508	0.0854	0.0199	12	-0.13	148.99	0
148	Total Sulfur (%)	0102	0.5544	0.0087	0.5508	0.0854	0.0199	12	0.04	148.07	0
148	Total Sulfur (%)	0483	0.6355	0.0210	0.5508	0.0854	0.0199	12	0.99	148.07	0
148	Total Sulfur (%)	0421	0.6750	0.0300	0.5508	0.0854	0.0199	12	1.45	148.07	0
148	Total Sulfur (%)	0105	0.7000	0.0000	0.5508	0.0854	0.0199	12	1.75	148.01	0
149	Sulfur - HNO3 soluble (%)	0524	0.5456	0.0084				2		149.04	0
149	Sulfur - HNO3 soluble (%)	0521	0.7499	0.0000				2		149.04	0
151	Acid Soluble Arsenic (ppm)	0136	0.2500	0.1000	0.5220	0.2355	0.1920	6	-1.03	151.00	0
151	Acid Soluble Arsenic (ppm)	0515	0.3994	0.2466	0.5220	0.2355	0.1920	6	-0.46	151.33	0
151	Acid Soluble Arsenic (ppm)	0519	0.4100	0.0200	0.5220	0.2355	0.1920	6	-0.42	151.30	0
151	Acid Soluble Arsenic (ppm)	0511	0.5800	0.0000	0.5220	0.2355	0.1920	6	0.22	151.30	0
151	Acid Soluble Arsenic (ppm)	0102	0.6745	0.4470	0.5220	0.2355	0.1920	6	0.58	151.30	0
151	Acid Soluble Arsenic (ppm)	0515	0.8178	0.3384	0.5220	0.2355	0.1920	6	1.12	151.34	0
151	Acid Soluble Arsenic (ppm)	0368	0.0000	0.0000	0.5220	0.2355	0.1920	6		151.30	4
165	Acid Soluble Boron (0.02%)	0506	0.0200	0.0000	0.0242	0.0039	0.0013	28	-1.05	165.00	0
165	Acid Soluble Boron (0.02%)	0095	0.0200	0.0000	0.0242	0.0039	0.0013	28	-1.05	165.99	0
165	Acid Soluble Boron (0.02%)	0231	0.0200	0.0000	0.0242	0.0039	0.0013	28	-1.05	165.99	0
165	Acid Soluble Boron (0.02%)	0472	0.0200	0.0000	0.0242	0.0039	0.0013	28	-1.05	165.99	0
165	Acid Soluble Boron (0.02%)	0524	0.0206	0.0006	0.0242	0.0039	0.0013	28	-0.90	165.99	0
165	Acid Soluble Boron (0.02%)	0230	0.0207	0.0002	0.0242	0.0039	0.0013	28	-0.88	165.99	0
165	Acid Soluble Boron (0.02%)	0444	0.0215	0.0050	0.0242	0.0039	0.0013	28	-0.67	165.30	0
165	Acid Soluble Boron (0.02%)	0324	0.0216	0.0017	0.0242	0.0039	0.0013	28	-0.66	165.30	0
165	Acid Soluble Boron (0.02%)	0117	0.0218	0.0003	0.0242	0.0039	0.0013	28	-0.61	165.99	0
165	Acid Soluble Boron (0.02%)	0520	0.0218	0.0000	0.0242	0.0039	0.0013	28	-0.60	165.99	0
165	Acid Soluble Boron (0.02%)	0481	0.0225	0.0010	0.0242	0.0039	0.0013	28	-0.42	165.00	0
165	Acid Soluble Boron (0.02%)	0377	0.0225	0.0010	0.0242	0.0039	0.0013	28	-0.42	165.30	0
165	Acid Soluble Boron (0.02%)	0452	0.0230	0.0000	0.0242	0.0039	0.0013	28	-0.29	165.99	0

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165	Acid Soluble Boron (0.02%)	0220	0.0235	0.0010	0.0242	0.0039	0.0013	28	-0.17	165.00	0
165	Acid Soluble Boron (0.02%)	0360	0.0235	0.0010	0.0242	0.0039	0.0013	28	-0.17	165.99	0
165	Acid Soluble Boron (0.02%)	0090	0.0240	0.0000	0.0242	0.0039	0.0013	28	-0.04	165.30	0
165	Acid Soluble Boron (0.02%)	0433	0.0243	0.0011	0.0242	0.0039	0.0013	28	0.02	165.30	0
165	Acid Soluble Boron (0.02%)	0521	0.0243	0.0000	0.0242	0.0039	0.0013	28	0.03	165.30	0
165	Acid Soluble Boron (0.02%)	0105	0.0244	0.0059	0.0242	0.0039	0.0013	28	0.05	165.00	0
165	Acid Soluble Boron (0.02%)	0389	0.0255	0.0010	0.0242	0.0039	0.0013	28	0.34	165.30	0
165	Acid Soluble Boron (0.02%)	0483	0.0262	0.0003	0.0242	0.0039	0.0013	28	0.50	165.99	0
165	Acid Soluble Boron (0.02%)	0421	0.0268	0.0005	0.0242	0.0039	0.0013	28	0.66	165.99	0
165	Acid Soluble Boron (0.02%)	0042	0.0285	0.0030	0.0242	0.0039	0.0013	28	1.10	165.99	0
165	Acid Soluble Boron (0.02%)	0515	0.0297	0.0078	0.0242	0.0039	0.0013	28	1.40	165.99	0
165	Acid Soluble Boron (0.02%)	0482	0.0300	0.0000	0.0242	0.0039	0.0013	28	1.48	165.99	0
165	Acid Soluble Boron (0.02%)	0511	0.0300	0.0000	0.0242	0.0039	0.0013	28	1.48	165.99	0
165	Acid Soluble Boron (0.02%)	0354	0.0305	0.0030	0.0242	0.0039	0.0013	28	1.60	165.30	0
165	Acid Soluble Boron (0.02%)	0519	0.0405	0.0010	0.0242	0.0039	0.0013	28	4.14	165.99	0
165	Acid Soluble Boron (0.02%)	0234	0.0250	0.0100	0.0242	0.0039	0.0013	28	0.21	165.30	1
165	Acid Soluble Boron (0.02%)	0055	0.1025	0.0010	0.0242	0.0039	0.0013	28	19.84	165.00	2
171	Water Soluble Boron (%)	0444	0.0210	0.0040	0.0217	0.0006	0.0027	3	-1.15	171.99	0
171	Water Soluble Boron (%)	0027	0.0220	0.0000	0.0217	0.0006	0.0027	3	0.58	171.99	0
171	Water Soluble Boron (%)	0307	0.0220	0.0040	0.0217	0.0006	0.0027	3	0.58	171.99	0
181	Acid Soluble Cadmium (ppm)	0444	3.735	0.0300	4.821	0.5805	0.1654	21	-1.87	181.30	0
181	Acid Soluble Cadmium (ppm)	0096	4.000	0.2000	4.821	0.5805	0.1654	21	-1.41	181.30	0
181	Acid Soluble Cadmium (ppm)	0523	4.170	0.0400	4.821	0.5805	0.1654	21	-1.12	181.30	0
181	Acid Soluble Cadmium (ppm)	0035	4.180	0.3600	4.821	0.5805	0.1654	21	-1.10	181.30	0
181	Acid Soluble Cadmium (ppm)	0524	4.197	0.0990	4.821	0.5805	0.1654	21	-1.08	181.30	0
181	Acid Soluble Cadmium (ppm)	0519	4.540	0.0800	4.821	0.5805	0.1654	21	-0.48	181.30	0
181	Acid Soluble Cadmium (ppm)	0515	4.587	0.5940	4.821	0.5805	0.1654	21	-0.40	181.34	0
181	Acid Soluble Cadmium (ppm)	0136	4.700	0.0000	4.821	0.5805	0.1654	21	-0.21	181.00	0
181	Acid Soluble Cadmium (ppm)	0220	4.800	0.0000	4.821	0.5805	0.1654	21	-0.04	181.99	0
181	Acid Soluble Cadmium (ppm)	0494	4.846	0.1374	4.821	0.5805	0.1654	21	0.04	181.33	0
181	Acid Soluble Cadmium (ppm)	0520	4.870	0.0000	4.821	0.5805	0.1654	21	0.08	181.30	0
181	Acid Soluble Cadmium (ppm)	0230	4.885	0.1300	4.821	0.5805	0.1654	21	0.11	181.34	0
181	Acid Soluble Cadmium (ppm)	0511	4.900	0.0000	4.821	0.5805	0.1654	21	0.14	181.30	0
181	Acid Soluble Cadmium (ppm)	0102	5.024	0.0140	4.821	0.5805	0.1654	21	0.35	181.30	0
181	Acid Soluble Cadmium (ppm)	0037	5.065	0.1300	4.821	0.5805	0.1654	21	0.42	181.33	0
181	Acid Soluble Cadmium (ppm)	0452	5.225	0.0100	4.821	0.5805	0.1654	21	0.70	181.30	0
181	Acid Soluble Cadmium (ppm)	0481	5.260	0.3000	4.821	0.5805	0.1654	21	0.76	181.99	0
181	Acid Soluble Cadmium (ppm)	0482	5.350	0.3000	4.821	0.5805	0.1654	21	0.91	181.30	0
181	Acid Soluble Cadmium (ppm)	0389	5.450	0.1000	4.821	0.5805	0.1654	21	1.08	181.30	0
181	Acid Soluble Cadmium (ppm)	0368	5.550	0.3000	4.821	0.5805	0.1654	21	1.26	181.30	0
181	Acid Soluble Cadmium (ppm)	0506	8.775	0.6500	4.821	0.5805	0.1654	21	6.81	181.99	0
181	Acid Soluble Cadmium (ppm)	0515	5.307	0.9830	4.821	0.5805	0.1654	21	0.84	181.33	1
190	Water Soluble Chlorine (%)	0105	1.320	0.1000				1		190.00	0

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191	Acid Soluble Chromium (ppm)	0444	76.88	0.8800	95.51	9.056	2.276	21	-2.06	191.30	0
191	Acid Soluble Chromium (ppm)	0523	81.38	0.2500	95.51	9.056	2.276	21	-1.56	191.30	0
191	Acid Soluble Chromium (ppm)	0035	84.85	0.9000	95.51	9.056	2.276	21	-1.18	191.30	0
191	Acid Soluble Chromium (ppm)	0027	85.33	0.9940	95.51	9.056	2.276	21	-1.12	191.30	0
191	Acid Soluble Chromium (ppm)	0117	88.61	2.720	95.51	9.056	2.276	21	-0.76	191.33	0
191	Acid Soluble Chromium (ppm)	0520	90.00	0.0000	95.51	9.056	2.276	21	-0.61	191.30	0
191	Acid Soluble Chromium (ppm)	0230	92.20	0.0000	95.51	9.056	2.276	21	-0.37	191.34	0
191	Acid Soluble Chromium (ppm)	0494	92.99	3.619	95.51	9.056	2.276	21	-0.28	191.33	0
191	Acid Soluble Chromium (ppm)	0096	94.35	1.900	95.51	9.056	2.276	21	-0.13	191.30	0
191	Acid Soluble Chromium (ppm)	0220	96.00	0.0000	95.51	9.056	2.276	21	0.05	191.99	0
191	Acid Soluble Chromium (ppm)	0511	96.30	0.0000	95.51	9.056	2.276	21	0.09	191.30	0
191	Acid Soluble Chromium (ppm)	0482	97.20	4.800	95.51	9.056	2.276	21	0.19	191.30	0
191	Acid Soluble Chromium (ppm)	0037	98.38	2.950	95.51	9.056	2.276	21	0.32	191.33	0
191	Acid Soluble Chromium (ppm)	0481	98.65	7.100	95.51	9.056	2.276	21	0.35	191.99	0
191	Acid Soluble Chromium (ppm)	0519	99.99	0.0500	95.51	9.056	2.276	21	0.49	191.30	0
191	Acid Soluble Chromium (ppm)	0102	101.3	1.417	95.51	9.056	2.276	21	0.64	191.30	0
191	Acid Soluble Chromium (ppm)	0389	101.5	1.000	95.51	9.056	2.276	21	0.66	191.30	0
191	Acid Soluble Chromium (ppm)	0452	102.5	0.9000	95.51	9.056	2.276	21	0.77	191.30	0
191	Acid Soluble Chromium (ppm)	0368	103.5	3.000	95.51	9.056	2.276	21	0.88	191.30	0
191	Acid Soluble Chromium (ppm)	0506	113.0	2.000	95.51	9.056	2.276	21	1.93	191.99	0
191	Acid Soluble Chromium (ppm)	0515	157.4	13.32	95.51	9.056	2.276	21	6.84	191.33	0
191	Acid Soluble Chromium (ppm)	0515	138.5	32.28	95.51	9.056	2.276	21	4.75	191.34	1
202	Acid Soluble Cobalt (ppm)	0519	0.0850	0.0100	0.3415	0.2310	0.0840	8	-1.02	202.30	0
202	Acid Soluble Cobalt (ppm)	0102	0.1400	0.0200	0.3415	0.2310	0.0840	8	-0.80	202.30	0
202	Acid Soluble Cobalt (ppm)	0524	0.2000	0.0000	0.3415	0.2310	0.0840	8	-0.56	202.30	0
202	Acid Soluble Cobalt (ppm)	0494	0.2469	0.0141	0.3415	0.2310	0.0840	8	-0.37	202.33	0
202	Acid Soluble Cobalt (ppm)	0515	0.4102	0.1675	0.3415	0.2310	0.0840	8	0.27	202.33	0
202	Acid Soluble Cobalt (ppm)	0389	0.4500	0.1000	0.3415	0.2310	0.0840	8	0.43	202.30	0
202	Acid Soluble Cobalt (ppm)	0452	0.5500	0.0600	0.3415	0.2310	0.0840	8	0.83	202.30	0
202	Acid Soluble Cobalt (ppm)	0368	0.6500	0.3000	0.3415	0.2310	0.0840	8	1.22	202.30	0
202	Acid Soluble Cobalt (ppm)	0511	0.0000	0.0000	0.3415	0.2310	0.0840	8		202.30	4
202	Acid Soluble Cobalt (ppm)	0515	0.0402	0.0803	0.3415	0.2310	0.0840	8		202.34	4
221	Acid Soluble Copper (%)	0368	0.0001	0.0000	0.0006	0.0004	0.0003	7	-1.13	221.30	0
221	Acid Soluble Copper (%)	0389	0.0001	0.0000	0.0006	0.0004	0.0003	7	-1.13	221.99	0
221	Acid Soluble Copper (%)	0515	0.0005	0.0002	0.0006	0.0004	0.0003	7	-0.13	221.99	0
221	Acid Soluble Copper (%)	0515	0.0006	0.0001	0.0006	0.0004	0.0003	7	0.00	221.33	0
221	Acid Soluble Copper (%)	0055	0.0008	0.0001	0.0006	0.0004	0.0003	7	0.50	221.30	0
221	Acid Soluble Copper (%)	0433	0.0009	0.0015	0.0006	0.0004	0.0003	7	0.75	221.30	0
221	Acid Soluble Copper (%)	0519	0.0010	0.0000	0.0006	0.0004	0.0003	7	1.13	221.99	0
221	Acid Soluble Copper (%)	0483	0.0020	0.0017	0.0006	0.0004	0.0003	7	3.52	221.30	1
221	Acid Soluble Copper (%)	0354	0.0000	0.0000	0.0006	0.0004	0.0003	7		221.30	4
221	Acid Soluble Copper (%)	0377	0.0000	0.0000	0.0006	0.0004	0.0003	7		221.30	4
221	Acid Soluble Copper (%)	0511	0.0000	0.0000	0.0006	0.0004	0.0003	7		221.30	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				
221	Acid Soluble Copper (%)	0521	0.0000	0.0000	0.0006	0.0004	0.0003	7		221.32	4
221	Acid Soluble Copper (%)	0524	0.0000	0.0000	0.0006	0.0004	0.0003	7		221.99	4
241	Acid Soluble Iron (0.05%)	0519	0.04500*	0.0100	0.1567	0.0144	0.0056	40	-7.73	241.99	0
241	Acid Soluble Iron (0.05%)	0102	0.06740*	0.0006	0.1567	0.0144	0.0056	40	-6.18	241.30	0
241	Acid Soluble Iron (0.05%)	0042	0.07250*	0.0010	0.1567	0.0144	0.0056	40	-5.83	241.99	0
241	Acid Soluble Iron (0.05%)	0481	0.1000*	0.0000	0.1567	0.0144	0.0056	40	-3.92	241.00	0
241	Acid Soluble Iron (0.05%)	0027	0.1195*	0.0010	0.1567	0.0144	0.0056	40	-2.57	241.99	0
241	Acid Soluble Iron (0.05%)	0506	0.1300*	0.0000	0.1567	0.0144	0.0056	40	-1.85	241.99	0
241	Acid Soluble Iron (0.05%)	0515	0.1405	0.0204	0.1567	0.0144	0.0056	40	-1.12	241.33	0
241	Acid Soluble Iron (0.05%)	0354	0.1425	0.0050	0.1567	0.0144	0.0056	40	-0.98	241.30	0
241	Acid Soluble Iron (0.05%)	0220	0.1440	0.0040	0.1567	0.0144	0.0056	40	-0.88	241.99	0
241	Acid Soluble Iron (0.05%)	0117	0.1475	0.0066	0.1567	0.0144	0.0056	40	-0.64	241.33	0
241	Acid Soluble Iron (0.05%)	0523	0.1480	0.0020	0.1567	0.0144	0.0056	40	-0.60	241.99	0
241	Acid Soluble Iron (0.05%)	0231	0.1500	0.0200	0.1567	0.0144	0.0056	40	-0.46	241.30	0
241	Acid Soluble Iron (0.05%)	0524	0.1522	0.0029	0.1567	0.0144	0.0056	40	-0.31	241.99	0
241	Acid Soluble Iron (0.05%)	0433	0.1544	0.0016	0.1567	0.0144	0.0056	40	-0.16	241.30	0
241	Acid Soluble Iron (0.05%)	0515	0.1546	0.0148	0.1567	0.0144	0.0056	40	-0.14	241.99	0
241	Acid Soluble Iron (0.05%)	0035	0.1550	0.0060	0.1567	0.0144	0.0056	40	-0.12	241.30	0
241	Acid Soluble Iron (0.05%)	0029	0.1580	0.0114	0.1567	0.0144	0.0056	40	0.09	241.00	0
241	Acid Soluble Iron (0.05%)	0095	0.1600	0.0000	0.1567	0.0144	0.0056	40	0.23	241.30	0
241	Acid Soluble Iron (0.05%)	0096	0.1600	0.0000	0.1567	0.0144	0.0056	40	0.23	241.30	0
241	Acid Soluble Iron (0.05%)	0234	0.1600	0.0200	0.1567	0.0144	0.0056	40	0.23	241.30	0
241	Acid Soluble Iron (0.05%)	0452	0.1600	0.0000	0.1567	0.0144	0.0056	40	0.23	241.30	0
241	Acid Soluble Iron (0.05%)	0494	0.1607	0.0039	0.1567	0.0144	0.0056	40	0.28	241.33	0
241	Acid Soluble Iron (0.05%)	0389	0.1610	0.0020	0.1567	0.0144	0.0056	40	0.30	241.99	0
241	Acid Soluble Iron (0.05%)	0324	0.1625	0.0010	0.1567	0.0144	0.0056	40	0.40	241.30	0
241	Acid Soluble Iron (0.05%)	0360	0.1625	0.0010	0.1567	0.0144	0.0056	40	0.40	241.30	0
241	Acid Soluble Iron (0.05%)	0090	0.1630	0.0100	0.1567	0.0144	0.0056	40	0.44	241.30	0
241	Acid Soluble Iron (0.05%)	0037	0.1630	0.0060	0.1567	0.0144	0.0056	40	0.44	241.33	0
241	Acid Soluble Iron (0.05%)	0157	0.1635	0.0170	0.1567	0.0144	0.0056	40	0.47	241.30	0
241	Acid Soluble Iron (0.05%)	0368	0.1644	0.0044	0.1567	0.0144	0.0056	40	0.53	241.30	0
241	Acid Soluble Iron (0.05%)	0105	0.1647	0.0087	0.1567	0.0144	0.0056	40	0.55	241.03	0
241	Acid Soluble Iron (0.05%)	0105	0.1650	0.0000	0.1567	0.0144	0.0056	40	0.58	241.00	0
241	Acid Soluble Iron (0.05%)	0377	0.1650	0.0020	0.1567	0.0144	0.0056	40	0.58	241.30	0
241	Acid Soluble Iron (0.05%)	0472	0.1650	0.0100	0.1567	0.0144	0.0056	40	0.58	241.30	0
241	Acid Soluble Iron (0.05%)	0482	0.1650	0.0100	0.1567	0.0144	0.0056	40	0.58	241.30	0
241	Acid Soluble Iron (0.05%)	0055	0.1661	0.0020	0.1567	0.0144	0.0056	40	0.65	241.30	0
241	Acid Soluble Iron (0.05%)	0511	0.1700	0.0000	0.1567	0.0144	0.0056	40	0.92	241.30	0
241	Acid Soluble Iron (0.05%)	0483	0.1740	0.0020	0.1567	0.0144	0.0056	40	1.20	241.30	0
241	Acid Soluble Iron (0.05%)	0421	0.2000	0.0000	0.1567	0.0144	0.0056	40	3.00	241.33	0
241	Acid Soluble Iron (0.05%)	0521	0.2070	0.0000	0.1567	0.0144	0.0056	40	3.48	241.32	0
241	Acid Soluble Iron (0.05%)	0420	0.2707	0.0149	0.1567	0.0144	0.0056	40	7.89	241.30	0
241	Acid Soluble Iron (0.05%)	0444	0.1750	0.0300	0.1567	0.0144	0.0056	40	1.27	241.30	1

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
251	Acid Soluble Lead (ppm)	0519	0.3500	0.0200	0.6736	0.3463	0.0315	8	-0.85	251.30	0
251	Acid Soluble Lead (ppm)	0511	0.3700	0.0000	0.6736	0.3463	0.0315	8	-0.80	251.30	0
251	Acid Soluble Lead (ppm)	0524	0.3840	0.0180	0.6736	0.3463	0.0315	8	-0.76	251.30	0
251	Acid Soluble Lead (ppm)	0452	0.5550	0.0100	0.6736	0.3463	0.0315	8	-0.31	251.30	0
251	Acid Soluble Lead (ppm)	0102	0.7115	0.0710	0.6736	0.3463	0.0315	8	0.10	251.30	0
251	Acid Soluble Lead (ppm)	0494	0.8976	0.0018	0.6736	0.3463	0.0315	8	0.59	251.33	0
251	Acid Soluble Lead (ppm)	0136	1.000	0.0000	0.6736	0.3463	0.0315	8	0.86	251.00	0
251	Acid Soluble Lead (ppm)	0515	1.121	0.1310	0.6736	0.3463	0.0315	8	1.18	251.34	0
251	Acid Soluble Lead (ppm)	0515	0.9221	0.4019	0.6736	0.3463	0.0315	8	0.66	251.33	1
261	Acid Soluble Manganese (0.2%)	0519	0.1900*	0.0000	0.2642	0.0168	0.0067	40	-4.41	261.99	0
261	Acid Soluble Manganese (0.2%)	0506	0.2100*	0.0000	0.2642	0.0168	0.0067	40	-3.22	261.99	0
261	Acid Soluble Manganese (0.2%)	0042	0.2300*	0.0000	0.2642	0.0168	0.0067	40	-2.03	261.99	0
261	Acid Soluble Manganese (0.2%)	0523	0.2420	0.0020	0.2642	0.0168	0.0067	40	-1.32	261.99	0
261	Acid Soluble Manganese (0.2%)	0035	0.2450	0.0020	0.2642	0.0168	0.0067	40	-1.14	261.30	0
261	Acid Soluble Manganese (0.2%)	0231	0.2450	0.0300	0.2642	0.0168	0.0067	40	-1.14	261.32	0
261	Acid Soluble Manganese (0.2%)	0515	0.2456	0.0288	0.2642	0.0168	0.0067	40	-1.10	261.99	0
261	Acid Soluble Manganese (0.2%)	0433	0.2474	0.0046	0.2642	0.0168	0.0067	40	-1.00	261.30	0
261	Acid Soluble Manganese (0.2%)	0117	0.2490	0.0085	0.2642	0.0168	0.0067	40	-0.90	261.35	0
261	Acid Soluble Manganese (0.2%)	0234	0.2500	0.0000	0.2642	0.0168	0.0067	40	-0.84	261.31	0
261	Acid Soluble Manganese (0.2%)	0524	0.2518	0.0016	0.2642	0.0168	0.0067	40	-0.73	261.99	0
261	Acid Soluble Manganese (0.2%)	0157	0.2585	0.0130	0.2642	0.0168	0.0067	40	-0.34	261.30	0
261	Acid Soluble Manganese (0.2%)	0095	0.2600	0.0200	0.2642	0.0168	0.0067	40	-0.25	261.99	0
261	Acid Soluble Manganese (0.2%)	0377	0.2605	0.0070	0.2642	0.0168	0.0067	40	-0.22	261.30	0
261	Acid Soluble Manganese (0.2%)	0324	0.2615	0.0070	0.2642	0.0168	0.0067	40	-0.16	261.31	0
261	Acid Soluble Manganese (0.2%)	0457	0.2619	0.0019	0.2642	0.0168	0.0067	40	-0.14	261.12	0
261	Acid Soluble Manganese (0.2%)	0177	0.2631	0.0059	0.2642	0.0168	0.0067	40	-0.07	261.35	0
261	Acid Soluble Manganese (0.2%)	0096	0.2637	0.0008	0.2642	0.0168	0.0067	40	-0.03	261.30	0
261	Acid Soluble Manganese (0.2%)	0360	0.2640	0.0000	0.2642	0.0168	0.0067	40	-0.01	261.31	0
261	Acid Soluble Manganese (0.2%)	0090	0.2645	0.0150	0.2642	0.0168	0.0067	40	0.02	261.30	0
261	Acid Soluble Manganese (0.2%)	0354	0.2645	0.0030	0.2642	0.0168	0.0067	40	0.02	261.30	0
261	Acid Soluble Manganese (0.2%)	0105	0.2649	0.0190	0.2642	0.0168	0.0067	40	0.04	261.15	0
261	Acid Soluble Manganese (0.2%)	0368	0.2667	0.0003	0.2642	0.0168	0.0067	40	0.15	261.30	0
261	Acid Soluble Manganese (0.2%)	0055	0.2674	0.0007	0.2642	0.0168	0.0067	40	0.19	261.32	0
261	Acid Soluble Manganese (0.2%)	0037	0.2680	0.0100	0.2642	0.0168	0.0067	40	0.23	261.35	0
261	Acid Soluble Manganese (0.2%)	0494	0.2693	0.0154	0.2642	0.0168	0.0067	40	0.30	261.35	0
261	Acid Soluble Manganese (0.2%)	0452	0.2700	0.0000	0.2642	0.0168	0.0067	40	0.35	261.30	0
261	Acid Soluble Manganese (0.2%)	0389	0.2700	0.0020	0.2642	0.0168	0.0067	40	0.35	261.99	0
261	Acid Soluble Manganese (0.2%)	0481	0.2700	0.0000	0.2642	0.0168	0.0067	40	0.35	261.99	0
261	Acid Soluble Manganese (0.2%)	0472	0.2750	0.0100	0.2642	0.0168	0.0067	40	0.64	261.30	0
261	Acid Soluble Manganese (0.2%)	0029	0.2760	0.0160	0.2642	0.0168	0.0067	40	0.70	261.12	0
261	Acid Soluble Manganese (0.2%)	0483	0.2760	0.0020	0.2642	0.0168	0.0067	40	0.70	261.32	0
261	Acid Soluble Manganese (0.2%)	0040	0.2780	0.0060	0.2642	0.0168	0.0067	40	0.82	261.12	0
261	Acid Soluble Manganese (0.2%)	0511	0.2800	0.0000	0.2642	0.0168	0.0067	40	0.94	261.31	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
261	Acid Soluble Manganese (0.2%)	0105	0.2807	0.0055	0.2642	0.0168	0.0067	40	0.98	261.12	0
261	Acid Soluble Manganese (0.2%)	0102	0.2828	0.0008	0.2642	0.0168	0.0067	40	1.11	261.30	0
261	Acid Soluble Manganese (0.2%)	0482	0.3000	0.0200	0.2642	0.0168	0.0067	40	2.13	261.31	0
261	Acid Soluble Manganese (0.2%)	0421	0.3200	0.0000	0.2642	0.0168	0.0067	40	3.32	261.35	0
261	Acid Soluble Manganese (0.2%)	0521	0.3655	0.0000	0.2642	0.0168	0.0067	40	6.02	261.34	0
261	Acid Soluble Manganese (0.2%)	0420	0.4371	0.0092	0.2642	0.0168	0.0067	40	10.27	261.30	0
261	Acid Soluble Manganese (0.2%)	0027	0.2445	0.0470	0.2642	0.0168	0.0067	40	-1.17	261.99	1
261	Acid Soluble Manganese (0.2%)	0515	0.2790	0.0421	0.2642	0.0168	0.0067	40	0.88	261.35	1
271	Water Soluble Manganese (%)	0444	0.2450	0.0100				1		271.30	0
281	Acid Soluble Mercury (ppm)	0519	0.0200	0.0000				1		281.30	0
281	Acid Soluble Mercury (ppm)	0511	0.0000	0.0000				1		281.00	4
281	Acid Soluble Mercury (ppm)	0515	0.0000	0.0000				1		281.30	4
289	Acid Soluble Molybdenum (30ppm)	0234	0.1000*	0.0000	34.88	3.377	0.5507	26	-10.30	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0511	23.50	0.0000	34.88	3.377	0.5507	26	-3.37	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0035	30.60	3.200	34.88	3.377	0.5507	26	-1.27	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0042	30.75	0.7000	34.88	3.377	0.5507	26	-1.22	289.99	0
289	Acid Soluble Molybdenum (30ppm)	0519	31.05	0.1000	34.88	3.377	0.5507	26	-1.13	289.99	0
289	Acid Soluble Molybdenum (30ppm)	0433	33.18	0.2367	34.88	3.377	0.5507	26	-0.50	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0220	33.30	0.8000	34.88	3.377	0.5507	26	-0.47	289.00	0
289	Acid Soluble Molybdenum (30ppm)	0027	33.41	0.2160	34.88	3.377	0.5507	26	-0.44	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0524	33.69	0.2120	34.88	3.377	0.5507	26	-0.35	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0220	34.00	0.0000	34.88	3.377	0.5507	26	-0.26	289.99	0
289	Acid Soluble Molybdenum (30ppm)	0520	34.01	0.0000	34.88	3.377	0.5507	26	-0.26	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0515	34.16	0.2990	34.88	3.377	0.5507	26	-0.21	289.33	0
289	Acid Soluble Molybdenum (30ppm)	0521	34.30	0.0000	34.88	3.377	0.5507	26	-0.17	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0494	34.89	0.8137	34.88	3.377	0.5507	26	0.00	289.33	0
289	Acid Soluble Molybdenum (30ppm)	0117	35.12	0.7400	34.88	3.377	0.5507	26	0.07	289.33	0
289	Acid Soluble Molybdenum (30ppm)	0230	35.85	0.5000	34.88	3.377	0.5507	26	0.29	289.34	0
289	Acid Soluble Molybdenum (30ppm)	0096	36.30	0.6000	34.88	3.377	0.5507	26	0.42	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0102	36.36	0.1010	34.88	3.377	0.5507	26	0.44	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0389	36.60	0.6000	34.88	3.377	0.5507	26	0.51	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0040	37.30	0.2000	34.88	3.377	0.5507	26	0.72	289.33	0
289	Acid Soluble Molybdenum (30ppm)	0368	37.50	1.000	34.88	3.377	0.5507	26	0.77	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0037	37.72	1.170	34.88	3.377	0.5507	26	0.84	289.33	0
289	Acid Soluble Molybdenum (30ppm)	0095	38.50	1.000	34.88	3.377	0.5507	26	1.07	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0452	38.85	0.0300	34.88	3.377	0.5507	26	1.17	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0506	51.95	1.300	34.88	3.377	0.5507	26	5.05	289.99	0
289	Acid Soluble Molybdenum (30ppm)	0377	76.05	0.5000	34.88	3.377	0.5507	26	12.19	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0515	31.66	5.652	34.88	3.377	0.5507	26	-0.95	289.34	1
289	Acid Soluble Molybdenum (30ppm)	0444	35.69	7.320	34.88	3.377	0.5507	26	0.24	289.30	1
291	Acid Soluble Nickel (ppm)	0515	0.6534	0.2072	1.127	0.2026	0.1461	14	-2.34	291.34	0
291	Acid Soluble Nickel (ppm)	0515	0.9129	0.4142	1.127	0.2026	0.1461	14	-1.06	291.33	0
291	Acid Soluble Nickel (ppm)	0444	0.9500	0.1600	1.127	0.2026	0.1461	14	-0.87	291.30	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				
291	Acid Soluble Nickel (ppm)	0524	0.9540	0.0140	1.127	0.2026	0.1461	14	-0.85	291.30	0
291	Acid Soluble Nickel (ppm)	0136	1.000	0.0000	1.127	0.2026	0.1461	14	-0.63	291.00	0
291	Acid Soluble Nickel (ppm)	0368	1.100	0.0000	1.127	0.2026	0.1461	14	-0.13	291.30	0
291	Acid Soluble Nickel (ppm)	0102	1.143	0.1110	1.127	0.2026	0.1461	14	0.08	291.30	0
291	Acid Soluble Nickel (ppm)	0494	1.165	0.3294	1.127	0.2026	0.1461	14	0.19	291.33	0
291	Acid Soluble Nickel (ppm)	0521	1.192	0.0000	1.127	0.2026	0.1461	14	0.32	291.30	0
291	Acid Soluble Nickel (ppm)	0519	1.195	0.0100	1.127	0.2026	0.1461	14	0.34	291.30	0
291	Acid Soluble Nickel (ppm)	0511	1.270	0.0000	1.127	0.2026	0.1461	14	0.71	291.30	0
291	Acid Soluble Nickel (ppm)	0452	1.300	0.0800	1.127	0.2026	0.1461	14	0.85	291.30	0
291	Acid Soluble Nickel (ppm)	0035	1.340	0.2200	1.127	0.2026	0.1461	14	1.05	291.30	0
291	Acid Soluble Nickel (ppm)	0220	3.750	0.5000	1.127	0.2026	0.1461	14	12.95	291.99	0
301	Acid Soluble Selenium (ppm)	0519	0.0100	0.0000	0.8963	0.5760	0.2835	5	-1.34	301.30	0
301	Acid Soluble Selenium (ppm)	0515	0.8536	1.059	0.8963	0.5760	0.2835	5	-0.06	301.34	0
301	Acid Soluble Selenium (ppm)	0515	0.9434	0.0207	0.8963	0.5760	0.2835	5	0.07	301.33	0
301	Acid Soluble Selenium (ppm)	0494	1.064	0.2978	0.8963	0.5760	0.2835	5	0.25	301.33	0
301	Acid Soluble Selenium (ppm)	0524	1.610	0.0400	0.8963	0.5760	0.2835	5	1.08	301.30	0
301	Acid Soluble Selenium (ppm)	0511	0.0000	0.0000	0.8963	0.5760	0.2835	5		301.30	4
311	Sodium (%)	0035	0.7560	0.0480	0.8724	0.1197	0.0285	7	-0.88	311.33	0
311	Sodium (%)	0354	0.7690	0.0240	0.8724	0.1197	0.0285	7	-0.78	311.99	0
311	Sodium (%)	0102	0.8023	0.0663	0.8724	0.1197	0.0285	7	-0.53	311.33	0
311	Sodium (%)	0494	0.8825	0.0114	0.8724	0.1197	0.0285	7	0.08	311.99	0
311	Sodium (%)	0096	0.9100	0.0000	0.8724	0.1197	0.0285	7	0.28	311.99	0
311	Sodium (%)	0482	0.9350	0.0500	0.8724	0.1197	0.0285	7	0.47	311.99	0
311	Sodium (%)	0521	1.196	0.0000	0.8724	0.1197	0.0285	7	2.44	311.32	0
321	Acid Soluble Zinc (0.03%)	0042	0.03050*	0.0010	0.0642	0.0058	0.0015	43	-5.85	321.99	0
321	Acid Soluble Zinc (0.03%)	0519	0.04000*	0.0000	0.0642	0.0058	0.0015	43	-4.20	321.99	0
321	Acid Soluble Zinc (0.03%)	0457	0.04850*	0.0002	0.0642	0.0058	0.0015	43	-2.73	321.00	0
321	Acid Soluble Zinc (0.03%)	0027	0.04950*	0.0010	0.0642	0.0058	0.0015	43	-2.55	321.99	0
321	Acid Soluble Zinc (0.03%)	0354	0.0565	0.0010	0.0642	0.0058	0.0015	43	-1.34	321.30	0
321	Acid Soluble Zinc (0.03%)	0220	0.0585	0.0010	0.0642	0.0058	0.0015	43	-0.99	321.33	0
321	Acid Soluble Zinc (0.03%)	0523	0.0595	0.0010	0.0642	0.0058	0.0015	43	-0.82	321.99	0
321	Acid Soluble Zinc (0.03%)	0481	0.0600	0.0000	0.0642	0.0058	0.0015	43	-0.73	321.00	0
321	Acid Soluble Zinc (0.03%)	0231	0.0600	0.0000	0.0642	0.0058	0.0015	43	-0.73	321.30	0
321	Acid Soluble Zinc (0.03%)	0292	0.0600	0.0000	0.0642	0.0058	0.0015	43	-0.73	321.30	0
321	Acid Soluble Zinc (0.03%)	0482	0.0600	0.0000	0.0642	0.0058	0.0015	43	-0.73	321.30	0
321	Acid Soluble Zinc (0.03%)	0506	0.0600	0.0000	0.0642	0.0058	0.0015	43	-0.73	321.99	0
321	Acid Soluble Zinc (0.03%)	0428	0.0607	0.0003	0.0642	0.0058	0.0015	43	-0.62	321.00	0
321	Acid Soluble Zinc (0.03%)	0494	0.0613	0.0004	0.0642	0.0058	0.0015	43	-0.50	321.33	0
321	Acid Soluble Zinc (0.03%)	0117	0.0617	0.0013	0.0642	0.0058	0.0015	43	-0.44	321.33	0
321	Acid Soluble Zinc (0.03%)	0433	0.0623	0.0002	0.0642	0.0058	0.0015	43	-0.33	321.30	0
321	Acid Soluble Zinc (0.03%)	0105	0.0636	0.0015	0.0642	0.0058	0.0015	43	-0.11	321.03	0
321	Acid Soluble Zinc (0.03%)	0230	0.0638	0.0005	0.0642	0.0058	0.0015	43	-0.08	321.30	0
321	Acid Soluble Zinc (0.03%)	0029	0.0639	0.0001	0.0642	0.0058	0.0015	43	-0.06	321.00	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321	Acid Soluble Zinc (0.03%)	0040	0.0640	0.0000	0.0642	0.0058	0.0015	43	-0.03	321.00	0
321	Acid Soluble Zinc (0.03%)	0324	0.0640	0.0000	0.0642	0.0058	0.0015	43	-0.03	321.30	0
321	Acid Soluble Zinc (0.03%)	0090	0.0645	0.0010	0.0642	0.0058	0.0015	43	0.05	321.30	0
321	Acid Soluble Zinc (0.03%)	0035	0.0647	0.0021	0.0642	0.0058	0.0015	43	0.08	321.30	0
321	Acid Soluble Zinc (0.03%)	0105	0.0649	0.0027	0.0642	0.0058	0.0015	43	0.11	321.00	0
321	Acid Soluble Zinc (0.03%)	0095	0.0650	0.0100	0.0642	0.0058	0.0015	43	0.14	321.30	0
321	Acid Soluble Zinc (0.03%)	0472	0.0650	0.0100	0.0642	0.0058	0.0015	43	0.14	321.30	0
321	Acid Soluble Zinc (0.03%)	0524	0.0657	0.0005	0.0642	0.0058	0.0015	43	0.25	321.99	0
321	Acid Soluble Zinc (0.03%)	0055	0.0659	0.0004	0.0642	0.0058	0.0015	43	0.30	321.30	0
321	Acid Soluble Zinc (0.03%)	0377	0.0660	0.0040	0.0642	0.0058	0.0015	43	0.31	321.30	0
321	Acid Soluble Zinc (0.03%)	0037	0.0660	0.0020	0.0642	0.0058	0.0015	43	0.31	321.33	0
321	Acid Soluble Zinc (0.03%)	0096	0.0664	0.0005	0.0642	0.0058	0.0015	43	0.38	321.30	0
321	Acid Soluble Zinc (0.03%)	0389	0.0665	0.0010	0.0642	0.0058	0.0015	43	0.40	321.99	0
321	Acid Soluble Zinc (0.03%)	0102	0.0674	0.0006	0.0642	0.0058	0.0015	43	0.56	321.30	0
321	Acid Soluble Zinc (0.03%)	0368	0.0680	0.0036	0.0642	0.0058	0.0015	43	0.66	321.30	0
321	Acid Soluble Zinc (0.03%)	0452	0.0680	0.0000	0.0642	0.0058	0.0015	43	0.66	321.30	0
321	Acid Soluble Zinc (0.03%)	0511	0.0680	0.0000	0.0642	0.0058	0.0015	43	0.66	321.30	0
321	Acid Soluble Zinc (0.03%)	0360	0.0705	0.0030	0.0642	0.0058	0.0015	43	1.10	321.30	0
321	Acid Soluble Zinc (0.03%)	0444	0.0720	0.0020	0.0642	0.0058	0.0015	43	1.36	321.30	0
321	Acid Soluble Zinc (0.03%)	0420	0.0780	0.0028	0.0642	0.0058	0.0015	43	2.40	321.30	0
321	Acid Soluble Zinc (0.03%)	0421	0.0800	0.0000	0.0642	0.0058	0.0015	43	2.75	321.33	0
321	Acid Soluble Zinc (0.03%)	0483	0.0841	0.0044	0.0642	0.0058	0.0015	43	3.46	321.30	0
321	Acid Soluble Zinc (0.03%)	0521	0.0935	0.0000	0.0642	0.0058	0.0015	43	5.09	321.32	0
321	Acid Soluble Zinc (0.03%)	0515	0.1616	0.0055	0.0642	0.0058	0.0015	43	16.92	321.99	0
321	Acid Soluble Zinc (0.03%)	0234	0.04000*	0.0400	0.0642	0.0058	0.0015	43	-4.20	321.30	1
321	Acid Soluble Zinc (0.03%)	0515	0.1170	0.0288	0.0642	0.0058	0.0015	43	9.18	321.33	1
325	Water Soluble Zinc (%)	0444	0.0670	0.0020				1		325.30	0

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier and a 4 flag indicates rejected due to 0 value submitted. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are included for information only (Grey). An offset lab value with an astrix indicates that the value is lower than the Analyte value less the IA. Method or Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for the purpose of this Proficiency Testing program.