

# magruder fertilizer

## check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 150311

Grade 6-9-22

### Statistical Summary

# Analytes: 38

# Labs Reporting: 87

Issue Date : 04/30/2015

Analyte Code	Analyte	# Tests Submitted	# Tests in Robust	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 (%)	25	24	4.816	0.3913	4.738		0.1644	0.0237	3.47%		0.0729	3.16%
007	Urea (%)	1		4.685									
009	Ammoniacal Plus Nitrate Nitrogen (%)	5	5	4.883	0.1738	4.883		0.1738	0.0550	3.56%		0.0380	3.15%
010	Total Nitrogen (6%)	71	68	4.877	0.3630	4.795	0.5059	0.0770	0.0066	1.61%	5.28%	0.0497	3.16%
020	Total Phosphorus as P2O5 (%)	51	50	8.587	2.623	8.114		0.2245	0.0224	2.77%		0.1095	2.92%
030	Citrate Insoluble Phosphorus as P2O5 (%)	1		0.0550									
040	Indirect Available Phosphorus as P2O5 (9%)	3	3	7.992	0.0993	7.992	0.6800	0.0993	0.0405	1.24%	4.25%	0.0767	2.93%
041	Direct Available Phosphorus as P2O5 (9%)	44	44	8.048	0.2843	8.048	0.6800	0.1922	0.0205	2.39%	4.22%	0.1351	2.92%
048	Water Soluble Phosphorus as P2O5 (%)	3	3	6.043	0.2741	6.043		0.2741	0.1119	4.53%		0.0333	3.05%
050	Soluble Potassium as K2O (22%)	83	82	20.86	1.984	20.99	1.1148	0.8004	0.0625	3.81%	2.65%	0.3301	2.53%
060	Water (%)	4	4	1.453	1.076	1.452		1.076	0.3806	74.11%		0.0326	3.78%
101	Acid Soluble Calcium (%)	17	16	5.744	0.2974	5.779		0.2434	0.0430	4.21%		0.1533	3.07%
121	Acid Soluble Magnesium (1.2%)	54	54	1.268	0.0817	1.273	0.2637	0.0657	0.0063	5.16%	10.35%	0.0332	3.86%
131	Water Soluble Magnesium (%)	13	12	1.083	0.1761	1.124		0.1126	0.0230	10.02%		0.0296	3.93%
143	Elemental Sulfur (%)	6	5	10.42	0.3947	10.42		0.3947	0.1248	3.79%		0.0800	2.81%
145	Sulfate Sulfur, HCl soluble (%)	7	7	9.930	1.111	10.06		0.5658	0.1512	5.62%		0.2086	2.83%
146	Total Sulfur in Liquid (%)	2	2	10.50	1.114								
148	Total Sulfur (12%)	36	35	10.33	0.7355	10.23	0.7115	0.5069	0.0606	4.96%	3.48%	0.1899	2.82%
149	Sulfur - HNO3 soluble (%)	3	3	9.768	0.0569	9.768		0.0569	0.0232	0.58%		0.2500	2.84%
151	Acid Soluble Arsenic (ppm)	18	18	23.21	6.480	25.01		2.480	0.4134	9.92%		1.058	9.85%
165	Acid Soluble Boron (0.45%)	44	43	0.3410	0.0488	0.3424	0.0544	0.0328	0.0035	9.58%	7.94%	0.0116	4.70%
171	Water Soluble Boron (%)	2	2	0.3503	0.0357								
181	Acid Soluble Cadmium (ppm)	21	20	11.51	2.435	11.19		0.6640	0.1050	5.93%		0.2665	11.12%
190	Water Soluble Chlorine (18%)	22	21	16.34	1.277	16.19	1.0000	0.2999	0.0463	1.85%	3.09%	0.1343	2.63%
191	Acid Soluble Chromium (ppm)	16	16	34.69	5.129	34.43		5.082	0.8984	14.76%		1.636	9.39%
202	Acid Soluble Cobalt (ppm)	13	13	4.200	0.9462	4.307		0.7055	0.1384	16.38%		0.3202	12.84%
221	Acid Soluble Copper (%)	31	31	0.0516	0.0093	0.0501		0.0047	0.0006	9.34%		0.0034	6.28%
241	Acid Soluble Iron (0.1%)	60	59	0.4304	0.0681	0.4406	0.0491	0.0490	0.0045	11.12%	5.57%	0.0153	4.52%
251	Acid Soluble Lead (ppm)	21	21	123.0	18.00	125.5		12.19	1.881	9.71%		5.611	7.73%
261	Acid Soluble Manganese (0.05%)	57	56	0.0480	0.0631	0.0362	0.0086	0.0041	0.0004	11.34%	11.90%	0.0027	6.59%
271	Water Soluble Manganese (%)	1		0.0185									

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281	Acid Soluble Mercury (ppm)	4	4	3.696	7.203	3.696		7.202	2.546	194.86%		0.2558	13.14%
289	Acid Soluble Molybdenum (ppm)	16	16	17.13	4.343	16.33		2.861	0.5058	17.52%		0.8274	10.51%
291	Acid Soluble Nickel (ppm)	17	17	12.18	1.927	12.14		1.607	0.2756	13.24%		0.9750	10.99%
301	Acid Soluble Selenium (ppm)	4	3	0.0676	0.1116	0.0676		0.1116	0.0456	165.03%		0.0157	23.99%
311	Sodium (%)	10	10	0.5963	0.0319	0.5916		0.0212	0.0048	3.59%		0.0203	4.33%
321	Acid Soluble Zinc (1.5%)	62	61	1.386	0.1292	1.393	0.1443	0.0971	0.0088	6.97%	5.18%	0.0521	3.81%
325	Water Soluble Zinc (%)	1		1.035									

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# Analytes: 38

Sample # 150311

Lab Values

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Grade 6-9-22

Issue Date : 04/30/2015

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 (%)	0420	4.445	0.0300	4.738	0.1644	0.0729	24	-1.78	001.99	0
001	Ammoniacal Nitrogen (%)	0389	4.500	0.0400	4.738	0.1644	0.0729	24	-1.45	001.10	0
001	Ammoniacal Nitrogen (%)	0368	4.560	0.0200	4.738	0.1644	0.0729	24	-1.09	001.10	0
001	Ammoniacal Nitrogen (%)	0230	4.595	0.2300	4.738	0.1644	0.0729	24	-0.87	001.10	0
001	Ammoniacal Nitrogen (%)	0231	4.615	0.0100	4.738	0.1644	0.0729	24	-0.75	001.10	0
001	Ammoniacal Nitrogen (%)	0493	4.625	0.0500	4.738	0.1644	0.0729	24	-0.69	001.99	0
001	Ammoniacal Nitrogen (%)	0169	4.635	0.0300	4.738	0.1644	0.0729	24	-0.63	001.10	0
001	Ammoniacal Nitrogen (%)	0096	4.635	0.0300	4.738	0.1644	0.0729	24	-0.63	001.99	0
001	Ammoniacal Nitrogen (%)	0416	4.670	0.0400	4.738	0.1644	0.0729	24	-0.42	001.10	0
001	Ammoniacal Nitrogen (%)	0394	4.700	0.0000	4.738	0.1644	0.0729	24	-0.23	001.99	0
001	Ammoniacal Nitrogen (%)	0500	4.730	0.0200	4.738	0.1644	0.0729	24	-0.05	001.10	0
001	Ammoniacal Nitrogen (%)	0397	4.735	0.0300	4.738	0.1644	0.0729	24	-0.02	001.99	0
001	Ammoniacal Nitrogen (%)	0371	4.735	0.0100	4.738	0.1644	0.0729	24	-0.02	001.99	0
001	Ammoniacal Nitrogen (%)	0220	4.745	0.0300	4.738	0.1644	0.0729	24	0.04	001.99	0
001	Ammoniacal Nitrogen (%)	0090	4.760	0.0200	4.738	0.1644	0.0729	24	0.13	001.10	0
001	Ammoniacal Nitrogen (%)	0405	4.760	0.0200	4.738	0.1644	0.0729	24	0.13	001.10	0
001	Ammoniacal Nitrogen (%)	0481	4.760	0.1000	4.738	0.1644	0.0729	24	0.13	001.10	0
001	Ammoniacal Nitrogen (%)	0456	4.810	0.1800	4.738	0.1644	0.0729	24	0.44	001.10	0
001	Ammoniacal Nitrogen (%)	0027	4.885	0.3100	4.738	0.1644	0.0729	24	0.89	001.99	0
001	Ammoniacal Nitrogen (%)	0444	4.890	0.0400	4.738	0.1644	0.0729	24	0.92	001.10	0
001	Ammoniacal Nitrogen (%)	0513	5.000	0.0400	4.738	0.1644	0.0729	24	1.59	001.10	0
001	Ammoniacal Nitrogen (%)	0506	5.150	0.2400	4.738	0.1644	0.0729	24	2.50	001.99	0
001	Ammoniacal Nitrogen (%)	0498	5.200	0.2000	4.738	0.1644	0.0729	24	2.81	001.10	0
001	Ammoniacal Nitrogen (%)	0510	6.445	0.0300	4.738	0.1644	0.0729	24	10.38	001.99	0
001	Ammoniacal Nitrogen (%)	0487	6.050	0.7000	4.738	0.1644	0.0729	24	7.98	001.99	1
007	Urea (%)	0444	4.685	0.0100			0.0100	1			
009	Ammoniacal Plus Nitrate Nitrogen (%)	0397	4.725	0.0100	4.883	0.1738	0.0380	5	-0.91	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0090	4.780	0.0200	4.883	0.1738	0.0380	5	-0.59	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0169	4.810	0.0200	4.883	0.1738	0.0380	5	-0.42	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0444	4.940	0.1200	4.883	0.1738	0.0380	5	0.33	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0513	5.160	0.0200	4.883	0.1738	0.0380	5	1.59	009.10	0
010	Total Nitrogen (6%)	0275	4.415	0.0900	4.795	0.0770	0.0497	68	-4.93	010.60	0
010	Total Nitrogen (6%)	0041	4.540	0.0800	4.795	0.0770	0.0497	68	-3.31	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 (6%)	0472	4.665	0.0300	4.795	0.0770	0.0497	68	-1.68	010.60	0
010	Total Nitrogen (6%)	0494	4.695	0.0500	4.795	0.0770	0.0497	68	-1.29	010.60	0
010	Total Nitrogen (6%)	0230	4.700	0.1400	4.795	0.0770	0.0497	68	-1.23	010.60	0
010	Total Nitrogen (6%)	0007	4.700	0.0000	4.795	0.0770	0.0497	68	-1.23	010.60	0
010	Total Nitrogen (6%)	0028	4.700	0.0200	4.795	0.0770	0.0497	68	-1.23	010.60	0
010	Total Nitrogen (6%)	0493	4.700	0.1000	4.795	0.0770	0.0497	68	-1.23	010.99	0
010	Total Nitrogen (6%)	0390	4.705	0.0300	4.795	0.0770	0.0497	68	-1.16	010.60	0
010	Total Nitrogen (6%)	0043	4.710	0.0800	4.795	0.0770	0.0497	68	-1.10	010.60	0
010	Total Nitrogen (6%)	0360	4.720	0.0200	4.795	0.0770	0.0497	68	-0.97	010.60	0
010	Total Nitrogen (6%)	0501	4.725	0.0300	4.795	0.0770	0.0497	68	-0.90	010.60	0
010	Total Nitrogen (6%)	0220	4.730	0.0000	4.795	0.0770	0.0497	68	-0.84	010.11	0
010	Total Nitrogen (6%)	0042	4.730	0.0600	4.795	0.0770	0.0497	68	-0.84	010.60	0
010	Total Nitrogen (6%)	0105	4.740	0.0800	4.795	0.0770	0.0497	68	-0.71	010.60	0
010	Total Nitrogen (6%)	0023	4.745	0.0326	4.795	0.0770	0.0497	68	-0.65	010.60	0
010	Total Nitrogen (6%)	0040	4.750	0.1000	4.795	0.0770	0.0497	68	-0.58	010.60	0
010	Total Nitrogen (6%)	0292	4.750	0.0200	4.795	0.0770	0.0497	68	-0.58	010.60	0
010	Total Nitrogen (6%)	0324	4.750	0.1000	4.795	0.0770	0.0497	68	-0.58	010.60	0
010	Total Nitrogen (6%)	0114	4.755	0.0100	4.795	0.0770	0.0497	68	-0.51	010.11	0
010	Total Nitrogen (6%)	0136	4.755	0.0700	4.795	0.0770	0.0497	68	-0.51	010.60	0
010	Total Nitrogen (6%)	0291	4.755	0.0100	4.795	0.0770	0.0497	68	-0.51	010.60	0
010	Total Nitrogen (6%)	0354	4.760	0.0010	4.795	0.0770	0.0497	68	-0.46	010.60	0
010	Total Nitrogen (6%)	0234	4.760	0.0200	4.795	0.0770	0.0497	68	-0.45	010.60	0
010	Total Nitrogen (6%)	0474	4.765	0.0100	4.795	0.0770	0.0497	68	-0.38	010.11	0
010	Total Nitrogen (6%)	0185	4.765	0.1300	4.795	0.0770	0.0497	68	-0.38	010.12	0
010	Total Nitrogen (6%)	0486	4.765	0.1100	4.795	0.0770	0.0497	68	-0.38	010.60	0
010	Total Nitrogen (6%)	0086	4.771	0.0152	4.795	0.0770	0.0497	68	-0.31	010.60	0
010	Total Nitrogen (6%)	0371	4.775	0.0300	4.795	0.0770	0.0497	68	-0.25	010.11	0
010	Total Nitrogen (6%)	0233	4.776	0.0010	4.795	0.0770	0.0497	68	-0.25	010.60	0
010	Total Nitrogen (6%)	0090	4.780	0.0200	4.795	0.0770	0.0497	68	-0.19	010.11	0
010	Total Nitrogen (6%)	0049	4.780	0.0400	4.795	0.0770	0.0497	68	-0.19	010.60	0
010	Total Nitrogen (6%)	0073	4.780	0.0200	4.795	0.0770	0.0497	68	-0.19	010.60	0
010	Total Nitrogen (6%)	0096	4.780	0.0200	4.795	0.0770	0.0497	68	-0.19	010.60	0
010	Total Nitrogen (6%)	0482	4.780	0.0200	4.795	0.0770	0.0497	68	-0.19	010.60	0
010	Total Nitrogen (6%)	0420	4.780	0.1000	4.795	0.0770	0.0497	68	-0.19	010.99	0
010	Total Nitrogen (6%)	0105	4.785	0.1300	4.795	0.0770	0.0497	68	-0.12	010.11	0
010	Total Nitrogen (6%)	0389	4.785	0.0300	4.795	0.0770	0.0497	68	-0.12	010.60	0
010	Total Nitrogen (6%)	0177	4.789	0.0210	4.795	0.0770	0.0497	68	-0.08	010.60	0
010	Total Nitrogen (6%)	0451	4.792	0.0050	4.795	0.0770	0.0497	68	-0.04	010.60	0
010	Total Nitrogen (6%)	0325	4.800	0.0000	4.795	0.0770	0.0497	68	0.07	010.60	0
010	Total Nitrogen (6%)	0356	4.805	0.0700	4.795	0.0770	0.0497	68	0.13	010.60	0
010	Total Nitrogen (6%)	0307	4.820	0.0400	4.795	0.0770	0.0497	68	0.33	010.60	0
010	Total Nitrogen (6%)	0423	4.820	0.0600	4.795	0.0770	0.0497	68	0.33	010.60	0
010	Total Nitrogen (6%)	0481	4.825	0.0700	4.795	0.0770	0.0497	68	0.39	010.12	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 (6%)	0452	4.830	0.0200	4.795	0.0770	0.0497	68	0.46	010.60	0
010	Total Nitrogen (6%)	0483	4.830	0.0400	4.795	0.0770	0.0497	68	0.46	010.60	0
010	Total Nitrogen (6%)	0405	4.835	0.0100	4.795	0.0770	0.0497	68	0.52	010.60	0
010	Total Nitrogen (6%)	0231	4.840	0.0200	4.795	0.0770	0.0497	68	0.59	010.60	0
010	Total Nitrogen (6%)	0157	4.855	0.0300	4.795	0.0770	0.0497	68	0.78	010.60	0
010	Total Nitrogen (6%)	0102	4.865	0.0100	4.795	0.0770	0.0497	68	0.91	010.60	0
010	Total Nitrogen (6%)	0368	4.865	0.0100	4.795	0.0770	0.0497	68	0.91	010.60	0
010	Total Nitrogen (6%)	0025	4.875	0.0430	4.795	0.0770	0.0497	68	1.04	010.60	0
010	Total Nitrogen (6%)	0029	4.878	0.1080	4.795	0.0770	0.0497	68	1.08	010.60	0
010	Total Nitrogen (6%)	0351	4.887	0.1110	4.795	0.0770	0.0497	68	1.20	010.60	0
010	Total Nitrogen (6%)	0095	4.895	0.0500	4.795	0.0770	0.0497	68	1.30	010.60	0
010	Total Nitrogen (6%)	0117	4.920	0.0200	4.795	0.0770	0.0497	68	1.63	010.60	0
010	Total Nitrogen (6%)	0443	4.960	0.0000	4.795	0.0770	0.0497	68	2.15	010.60	0
010	Total Nitrogen (6%)	0406	4.965	0.0300	4.795	0.0770	0.0497	68	2.21	010.60	0
010	Total Nitrogen (6%)	0055	4.980	0.0400	4.795	0.0770	0.0497	68	2.41	010.60	0
010	Total Nitrogen (6%)	0402	4.995	0.0100	4.795	0.0770	0.0497	68	2.60	010.60	0
010	Total Nitrogen (6%)	0444	5.085	0.0900	4.795	0.0770	0.0497	68	3.77	010.60	0
010	Total Nitrogen (6%)	0470	5.110	0.0200	4.795	0.0770	0.0497	68	4.09	010.11	0
010	Total Nitrogen (6%)	0506	5.150	0.2400	4.795	0.0770	0.0497	68	4.61	010.99	0
010	Total Nitrogen (6%)	0498	5.350	0.1000	4.795	0.0770	0.0497	68	7.21	010.12	0
010	Total Nitrogen (6%)	0456	5.940	0.1200	4.795	0.0770	0.0497	68	14.87	010.11	0
010	Total Nitrogen (6%)	0510	6.270	0.0400	4.795	0.0770	0.0497	68	19.16	010.11	0
010	Total Nitrogen (6%)	0455	6.950	0.1000	4.795	0.0770	0.0497	68	27.98	010.12	0
010	Total Nitrogen (6%)	0377	4.710	0.3000	4.795	0.0770	0.0497	68	-1.10	010.60	1
010	Total Nitrogen (6%)	0421	4.945	0.2700	4.795	0.0770	0.0497	68	1.95	010.60	1
010	Total Nitrogen (6%)	0487	6.250	0.3000	4.795	0.0770	0.0497	68	18.90	010.99	1
020	Total Phosphorus as P2O5 (%)	0443	4.050	0.0000	8.114	0.2245	0.1095	50	-18.10	020.99	0
020	Total Phosphorus as P2O5 (%)	0444	7.645	0.2100	8.114	0.2245	0.1095	50	-2.09	020.50	0
020	Total Phosphorus as P2O5 (%)	0472	7.780	0.0400	8.114	0.2245	0.1095	50	-1.49	020.50	0
020	Total Phosphorus as P2O5 (%)	0157	7.785	0.2900	8.114	0.2245	0.1095	50	-1.47	020.50	0
020	Total Phosphorus as P2O5 (%)	0420	7.805	0.1700	8.114	0.2245	0.1095	50	-1.38	020.20	0
020	Total Phosphorus as P2O5 (%)	0027	7.815	0.0100	8.114	0.2245	0.1095	50	-1.33	020.20	0
020	Total Phosphorus as P2O5 (%)	0405	7.890	0.1000	8.114	0.2245	0.1095	50	-1.00	020.20	0
020	Total Phosphorus as P2O5 (%)	0487	7.900	0.0000	8.114	0.2245	0.1095	50	-0.95	020.99	0
020	Total Phosphorus as P2O5 (%)	0506	7.925	0.0500	8.114	0.2245	0.1095	50	-0.84	020.20	0
020	Total Phosphorus as P2O5 (%)	0481	7.935	0.0500	8.114	0.2245	0.1095	50	-0.80	020.20	0
020	Total Phosphorus as P2O5 (%)	0169	7.945	0.1100	8.114	0.2245	0.1095	50	-0.75	020.20	0
020	Total Phosphorus as P2O5 (%)	0500	7.950	0.0200	8.114	0.2245	0.1095	50	-0.73	020.10	0
020	Total Phosphorus as P2O5 (%)	0096	7.955	0.0100	8.114	0.2245	0.1095	50	-0.71	020.40	0
020	Total Phosphorus as P2O5 (%)	0389	7.970	0.0800	8.114	0.2245	0.1095	50	-0.64	020.50	0
020	Total Phosphorus as P2O5 (%)	0513	7.970	0.0200	8.114	0.2245	0.1095	50	-0.64	020.20	0
020	Total Phosphorus as P2O5 (%)	0474	7.995	0.0900	8.114	0.2245	0.1095	50	-0.53	020.20	0
020	Total Phosphorus as P2O5 (%)	0371	8.000	0.0000	8.114	0.2245	0.1095	50	-0.51	020.20	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
020	Total Phosphorus as P2O5 (%)	0394	8.000	0.0000	8.114	0.2245	0.1095	50	-0.51	020.20	0
020	Total Phosphorus as P2O5 (%)	0470	8.025	0.0100	8.114	0.2245	0.1095	50	-0.40	020.10	0
020	Total Phosphorus as P2O5 (%)	0105	8.045	0.0100	8.114	0.2245	0.1095	50	-0.31	020.10	0
020	Total Phosphorus as P2O5 (%)	0470	8.065	0.0100	8.114	0.2245	0.1095	50	-0.22	020.40	0
020	Total Phosphorus as P2O5 (%)	0105	8.080	0.0000	8.114	0.2245	0.1095	50	-0.15	020.40	0
020	Total Phosphorus as P2O5 (%)	0444	8.100	0.2600	8.114	0.2245	0.1095	50	-0.06	020.10	0
020	Total Phosphorus as P2O5 (%)	0231	8.110	0.0200	8.114	0.2245	0.1095	50	-0.02	020.20	0
020	Total Phosphorus as P2O5 (%)	0258	8.110	0.0200	8.114	0.2245	0.1095	50	-0.02	020.20	0
020	Total Phosphorus as P2O5 (%)	0482	8.115	0.2100	8.114	0.2245	0.1095	50	0.00	020.50	0
020	Total Phosphorus as P2O5 (%)	0090	8.130	0.0600	8.114	0.2245	0.1095	50	0.07	020.10	0
020	Total Phosphorus as P2O5 (%)	0513	8.140	0.0600	8.114	0.2245	0.1095	50	0.12	020.10	0
020	Total Phosphorus as P2O5 (%)	0501	8.140	0.0800	8.114	0.2245	0.1095	50	0.12	020.50	0
020	Total Phosphorus as P2O5 (%)	0028	8.145	0.0300	8.114	0.2245	0.1095	50	0.14	020.40	0
020	Total Phosphorus as P2O5 (%)	0415	8.150	0.1000	8.114	0.2245	0.1095	50	0.16	020.20	0
020	Total Phosphorus as P2O5 (%)	0292	8.165	0.0100	8.114	0.2245	0.1095	50	0.23	020.20	0
020	Total Phosphorus as P2O5 (%)	0368	8.205	0.2500	8.114	0.2245	0.1095	50	0.40	020.50	0
020	Total Phosphorus as P2O5 (%)	0291	8.225	0.0100	8.114	0.2245	0.1095	50	0.49	020.50	0
020	Total Phosphorus as P2O5 (%)	0042	8.235	0.0300	8.114	0.2245	0.1095	50	0.54	020.20	0
020	Total Phosphorus as P2O5 (%)	0234	8.235	0.0900	8.114	0.2245	0.1095	50	0.54	020.50	0
020	Total Phosphorus as P2O5 (%)	0402	8.235	0.1900	8.114	0.2245	0.1095	50	0.54	020.50	0
020	Total Phosphorus as P2O5 (%)	0416	8.240	0.0400	8.114	0.2245	0.1095	50	0.56	020.20	0
020	Total Phosphorus as P2O5 (%)	0324	8.245	0.4500	8.114	0.2245	0.1095	50	0.58	020.20	0
020	Total Phosphorus as P2O5 (%)	0307	8.272	0.3010	8.114	0.2245	0.1095	50	0.70	020.50	0
020	Total Phosphorus as P2O5 (%)	0483	8.360	0.4600	8.114	0.2245	0.1095	50	1.10	020.50	0
020	Total Phosphorus as P2O5 (%)	0035	8.370	0.2200	8.114	0.2245	0.1095	50	1.14	020.40	0
020	Total Phosphorus as P2O5 (%)	0451	8.380	0.5000	8.114	0.2245	0.1095	50	1.18	020.50	0
020	Total Phosphorus as P2O5 (%)	0356	8.400	0.1600	8.114	0.2245	0.1095	50	1.27	020.20	0
020	Total Phosphorus as P2O5 (%)	0406	8.400	0.0400	8.114	0.2245	0.1095	50	1.27	020.20	0
020	Total Phosphorus as P2O5 (%)	0510	9.125	0.0100	8.114	0.2245	0.1095	50	4.50	020.20	0
020	Total Phosphorus as P2O5 (%)	0456	9.385	0.3300	8.114	0.2245	0.1095	50	5.66	020.40	0
020	Total Phosphorus as P2O5 (%)	0455	9.455	0.0900	8.114	0.2245	0.1095	50	5.97	020.99	0
020	Total Phosphorus as P2O5 (%)	0371	20.75	0.1700	8.114	0.2245	0.1095	50	56.27	020.99	0
020	Total Phosphorus as P2O5 (%)	0322	21.01	0.0030	8.114	0.2245	0.1095	50	57.44	020.10	0
020	Total Phosphorus as P2O5 (%)	0390	7.845	0.7100	8.114	0.2245	0.1095	50	-1.20	020.50	1
030	Citrate Insoluble Phosphorus as P2O5 (%)	0096	0.0550	0.0100			0.0100	1			
040	Indirect Available Phosphorus as P2O5 (9%)	0096	7.905	0.0100	7.992	0.0993	0.0767	3	-0.87	040.40	0
040	Indirect Available Phosphorus as P2O5 (9%)	0513	7.970	0.0200	7.992	0.0993	0.0767	3	-0.22	040.20	0
040	Indirect Available Phosphorus as P2O5 (9%)	0498	8.100	0.2000	7.992	0.0993	0.0767	3	1.09	040.20	0
041	Direct Available Phosphorus as P2O5 (9%)	0506	6.970*	0.0600	8.048	0.1922	0.1351	44	-5.61	041.99	0
041	Direct Available Phosphorus as P2O5 (9%)	0423	7.535	0.0300	8.048	0.1922	0.1351	44	-2.67	041.51	0
041	Direct Available Phosphorus as P2O5 (9%)	0230	7.650	0.6000	8.048	0.1922	0.1351	44	-2.07	041.99	0
041	Direct Available Phosphorus as P2O5 (9%)	0027	7.735	0.3500	8.048	0.1922	0.1351	44	-1.63	041.20	0
041	Direct Available Phosphorus as P2O5 (9%)	0472	7.760	0.0400	8.048	0.1922	0.1351	44	-1.50	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 (9%)	0513	7.830	0.0400	8.048	0.1922	0.1351	44	-1.13	041.60	0
041	Direct Available Phosphorus as P2O5 (9%)	0325	7.850	0.5000	8.048	0.1922	0.1351	44	-1.03	041.50	0
041	Direct Available Phosphorus as P2O5 (9%)	0043	7.860	0.0200	8.048	0.1922	0.1351	44	-0.98	041.50	0
041	Direct Available Phosphorus as P2O5 (9%)	0007	7.900	0.6000	8.048	0.1922	0.1351	44	-0.77	041.50	0
041	Direct Available Phosphorus as P2O5 (9%)	0493	7.925	0.0500	8.048	0.1922	0.1351	44	-0.64	041.10	0
041	Direct Available Phosphorus as P2O5 (9%)	0049	7.935	0.0100	8.048	0.1922	0.1351	44	-0.59	041.10	0
041	Direct Available Phosphorus as P2O5 (9%)	0177	7.953	0.0720	8.048	0.1922	0.1351	44	-0.49	041.60	0
041	Direct Available Phosphorus as P2O5 (9%)	0105	7.975	0.0100	8.048	0.1922	0.1351	44	-0.38	041.11	0
041	Direct Available Phosphorus as P2O5 (9%)	0086	7.993	0.0634	8.048	0.1922	0.1351	44	-0.29	041.10	0
041	Direct Available Phosphorus as P2O5 (9%)	0040	8.000	0.2000	8.048	0.1922	0.1351	44	-0.25	041.10	0
041	Direct Available Phosphorus as P2O5 (9%)	0102	8.000	0.0000	8.048	0.1922	0.1351	44	-0.25	041.10	0
041	Direct Available Phosphorus as P2O5 (9%)	0220	8.000	0.0200	8.048	0.1922	0.1351	44	-0.25	041.11	0
041	Direct Available Phosphorus as P2O5 (9%)	0485	8.000	0.0200	8.048	0.1922	0.1351	44	-0.25	041.11	0
041	Direct Available Phosphorus as P2O5 (9%)	0029	8.000	0.0200	8.048	0.1922	0.1351	44	-0.25	041.60	0
041	Direct Available Phosphorus as P2O5 (9%)	0043	8.015	0.0300	8.048	0.1922	0.1351	44	-0.17	041.60	0
041	Direct Available Phosphorus as P2O5 (9%)	0177	8.016	0.0024	8.048	0.1922	0.1351	44	-0.16	041.10	0
041	Direct Available Phosphorus as P2O5 (9%)	0397	8.020	0.0200	8.048	0.1922	0.1351	44	-0.14	041.60	0
041	Direct Available Phosphorus as P2O5 (9%)	0041	8.035	0.1100	8.048	0.1922	0.1351	44	-0.07	041.10	0
041	Direct Available Phosphorus as P2O5 (9%)	0055	8.040	0.0200	8.048	0.1922	0.1351	44	-0.04	041.11	0
041	Direct Available Phosphorus as P2O5 (9%)	0185	8.055	0.1300	8.048	0.1922	0.1351	44	0.04	041.10	0
041	Direct Available Phosphorus as P2O5 (9%)	0136	8.060	0.1600	8.048	0.1922	0.1351	44	0.06	041.60	0
041	Direct Available Phosphorus as P2O5 (9%)	0377	8.065	0.0100	8.048	0.1922	0.1351	44	0.09	041.51	0
041	Direct Available Phosphorus as P2O5 (9%)	0421	8.085	0.1300	8.048	0.1922	0.1351	44	0.19	041.51	0
041	Direct Available Phosphorus as P2O5 (9%)	0105	8.090	0.1000	8.048	0.1922	0.1351	44	0.22	041.99	0
041	Direct Available Phosphorus as P2O5 (9%)	0034	8.104	0.2544	8.048	0.1922	0.1351	44	0.29	041.60	0
041	Direct Available Phosphorus as P2O5 (9%)	0055	8.140	0.0000	8.048	0.1922	0.1351	44	0.48	041.21	0
041	Direct Available Phosphorus as P2O5 (9%)	0368	8.160	0.2600	8.048	0.1922	0.1351	44	0.58	041.50	0
041	Direct Available Phosphorus as P2O5 (9%)	0452	8.180	0.0200	8.048	0.1922	0.1351	44	0.69	041.50	0
041	Direct Available Phosphorus as P2O5 (9%)	0231	8.200	0.1400	8.048	0.1922	0.1351	44	0.79	041.60	0
041	Direct Available Phosphorus as P2O5 (9%)	0486	8.235	0.0700	8.048	0.1922	0.1351	44	0.97	041.51	0
041	Direct Available Phosphorus as P2O5 (9%)	0494	8.255	0.5100	8.048	0.1922	0.1351	44	1.08	041.10	0
041	Direct Available Phosphorus as P2O5 (9%)	0494	8.265	0.5900	8.048	0.1922	0.1351	44	1.13	041.60	0
041	Direct Available Phosphorus as P2O5 (9%)	0354	8.326	0.0820	8.048	0.1922	0.1351	44	1.45	041.60	0
041	Direct Available Phosphorus as P2O5 (9%)	0117	8.340	0.1200	8.048	0.1922	0.1351	44	1.52	041.60	0
041	Direct Available Phosphorus as P2O5 (9%)	0105	8.375	0.0300	8.048	0.1922	0.1351	44	1.70	041.60	0
041	Direct Available Phosphorus as P2O5 (9%)	0025	8.380	0.2000	8.048	0.1922	0.1351	44	1.73	041.50	0
041	Direct Available Phosphorus as P2O5 (9%)	0023	8.500	0.1600	8.048	0.1922	0.1351	44	2.35	041.50	0
041	Direct Available Phosphorus as P2O5 (9%)	0360	8.570	0.0800	8.048	0.1922	0.1351	44	2.72	041.51	0
041	Direct Available Phosphorus as P2O5 (9%)	0095	8.725	0.0100	8.048	0.1922	0.1351	44	3.52	041.40	0
048	Water Soluble Phosphorus as P2O5 (%)	0405	5.840	0.0200	6.043	0.2741	0.0333	3	-0.74	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0096	5.935	0.0500	6.043	0.2741	0.0333	3	-0.40	048.40	0
048	Water Soluble Phosphorus as P2O5 (%)	0420	6.355	0.0300	6.043	0.2741	0.0333	3	1.14	048.20	0
050	Soluble Potassium as K2O (22%)	0322	7.971*	0.0220	20.99	0.8004	0.3301	82	-16.27	050.10	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 (22%)	0443	16.93*	0.0000	20.99	0.8004	0.3301	82	-5.08	050.60	0
050	Soluble Potassium as K2O (22%)	0389	17.54*	0.1600	20.99	0.8004	0.3301	82	-4.32	050.99	0
050	Soluble Potassium as K2O (22%)	0506	18.25*	0.5000	20.99	0.8004	0.3301	82	-3.43	050.99	0
050	Soluble Potassium as K2O (22%)	0501	18.35*	0.2200	20.99	0.8004	0.3301	82	-3.30	050.99	0
050	Soluble Potassium as K2O (22%)	0472	19.07*	0.4200	20.99	0.8004	0.3301	82	-2.40	050.31	0
050	Soluble Potassium as K2O (22%)	0234	19.41*	0.1200	20.99	0.8004	0.3301	82	-1.98	050.99	0
050	Soluble Potassium as K2O (22%)	0481	19.60*	0.4000	20.99	0.8004	0.3301	82	-1.74	050.99	0
050	Soluble Potassium as K2O (22%)	0157	19.65*	0.3000	20.99	0.8004	0.3301	82	-1.68	050.30	0
050	Soluble Potassium as K2O (22%)	0292	19.72*	0.0800	20.99	0.8004	0.3301	82	-1.59	050.50	0
050	Soluble Potassium as K2O (22%)	0423	19.94	0.0900	20.99	0.8004	0.3301	82	-1.32	050.52	0
050	Soluble Potassium as K2O (22%)	0402	19.96	0.3200	20.99	0.8004	0.3301	82	-1.29	050.99	0
050	Soluble Potassium as K2O (22%)	0482	20.05	1.300	20.99	0.8004	0.3301	82	-1.18	050.99	0
050	Soluble Potassium as K2O (22%)	0485	20.12	0.6200	20.99	0.8004	0.3301	82	-1.09	050.52	0
050	Soluble Potassium as K2O (22%)	0394	20.15	0.1000	20.99	0.8004	0.3301	82	-1.06	050.99	0
050	Soluble Potassium as K2O (22%)	0025	20.25	0.5000	20.99	0.8004	0.3301	82	-0.93	050.51	0
050	Soluble Potassium as K2O (22%)	0220	20.29	0.2800	20.99	0.8004	0.3301	82	-0.88	050.00	0
050	Soluble Potassium as K2O (22%)	0444	20.39	0.0900	20.99	0.8004	0.3301	82	-0.76	050.50	0
050	Soluble Potassium as K2O (22%)	0042	20.42	0.2100	20.99	0.8004	0.3301	82	-0.72	050.61	0
050	Soluble Potassium as K2O (22%)	0356	20.43	0.2900	20.99	0.8004	0.3301	82	-0.71	050.30	0
050	Soluble Potassium as K2O (22%)	0136	20.60	0.0800	20.99	0.8004	0.3301	82	-0.49	050.30	0
050	Soluble Potassium as K2O (22%)	0007	20.60	0.6000	20.99	0.8004	0.3301	82	-0.49	050.51	0
050	Soluble Potassium as K2O (22%)	0105	20.60	0.1600	20.99	0.8004	0.3301	82	-0.49	050.60	0
050	Soluble Potassium as K2O (22%)	0027	20.61	0.4900	20.99	0.8004	0.3301	82	-0.49	050.99	0
050	Soluble Potassium as K2O (22%)	0444	20.64	0.3600	20.99	0.8004	0.3301	82	-0.44	050.99	0
050	Soluble Potassium as K2O (22%)	0421	20.65	0.3000	20.99	0.8004	0.3301	82	-0.43	050.52	0
050	Soluble Potassium as K2O (22%)	0034	20.65	0.1789	20.99	0.8004	0.3301	82	-0.43	050.61	0
050	Soluble Potassium as K2O (22%)	0040	20.70	0.2000	20.99	0.8004	0.3301	82	-0.37	050.30	0
050	Soluble Potassium as K2O (22%)	0169	20.70	0.1600	20.99	0.8004	0.3301	82	-0.37	050.60	0
050	Soluble Potassium as K2O (22%)	0090	20.77	0.0000	20.99	0.8004	0.3301	82	-0.28	050.00	0
050	Soluble Potassium as K2O (22%)	0405	20.78	0.0200	20.99	0.8004	0.3301	82	-0.27	050.00	0
050	Soluble Potassium as K2O (22%)	0055	20.81	0.1400	20.99	0.8004	0.3301	82	-0.23	050.50	0
050	Soluble Potassium as K2O (22%)	0456	20.81	0.7800	20.99	0.8004	0.3301	82	-0.23	050.61	0
050	Soluble Potassium as K2O (22%)	0416	20.83	0.0500	20.99	0.8004	0.3301	82	-0.21	050.00	0
050	Soluble Potassium as K2O (22%)	0043	20.85	0.2700	20.99	0.8004	0.3301	82	-0.19	050.99	0
050	Soluble Potassium as K2O (22%)	0231	20.85	0.0000	20.99	0.8004	0.3301	82	-0.18	050.00	0
050	Soluble Potassium as K2O (22%)	0258	20.86	0.1200	20.99	0.8004	0.3301	82	-0.17	050.00	0
050	Soluble Potassium as K2O (22%)	0177	20.88	0.0774	20.99	0.8004	0.3301	82	-0.15	050.99	0
050	Soluble Potassium as K2O (22%)	0105	20.89	0.2300	20.99	0.8004	0.3301	82	-0.14	050.99	0
050	Soluble Potassium as K2O (22%)	0043	20.93	0.0600	20.99	0.8004	0.3301	82	-0.08	050.51	0
050	Soluble Potassium as K2O (22%)	0049	20.99	0.1500	20.99	0.8004	0.3301	82	-0.01	050.00	0
050	Soluble Potassium as K2O (22%)	0029	21.01	0.4100	20.99	0.8004	0.3301	82	0.01	050.62	0
050	Soluble Potassium as K2O (22%)	0105	21.01	0.0200	20.99	0.8004	0.3301	82	0.02	050.62	0
050	Soluble Potassium as K2O (22%)	0494	21.08	0.0700	20.99	0.8004	0.3301	82	0.10	050.61	0



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050	Soluble Potassium as K2O (22%)	0157	21.10	0.2000	20.99	0.8004	0.3301	82	0.13	050.50	0
050	Soluble Potassium as K2O (22%)	0397	21.13	0.3500	20.99	0.8004	0.3301	82	0.16	050.50	0
050	Soluble Potassium as K2O (22%)	0494	21.14	0.4100	20.99	0.8004	0.3301	82	0.18	050.00	0
050	Soluble Potassium as K2O (22%)	0095	21.15	0.7800	20.99	0.8004	0.3301	82	0.19	050.62	0
050	Soluble Potassium as K2O (22%)	0470	21.20	0.0000	20.99	0.8004	0.3301	82	0.26	050.60	0
050	Soluble Potassium as K2O (22%)	0470	21.26	0.0200	20.99	0.8004	0.3301	82	0.33	050.00	0
050	Soluble Potassium as K2O (22%)	0483	21.26	0.8400	20.99	0.8004	0.3301	82	0.33	050.51	0
050	Soluble Potassium as K2O (22%)	0452	21.29	0.0300	20.99	0.8004	0.3301	82	0.36	050.50	0
050	Soluble Potassium as K2O (22%)	0500	21.30	0.2000	20.99	0.8004	0.3301	82	0.38	050.99	0
050	Soluble Potassium as K2O (22%)	0096	21.31	0.5500	20.99	0.8004	0.3301	82	0.39	050.99	0
050	Soluble Potassium as K2O (22%)	0377	21.35	0.2000	20.99	0.8004	0.3301	82	0.44	050.52	0
050	Soluble Potassium as K2O (22%)	0028	21.36	0.1600	20.99	0.8004	0.3301	82	0.46	050.62	0
050	Soluble Potassium as K2O (22%)	0360	21.39	0.1600	20.99	0.8004	0.3301	82	0.49	050.52	0
050	Soluble Potassium as K2O (22%)	0291	21.41	0.4500	20.99	0.8004	0.3301	82	0.51	050.51	0
050	Soluble Potassium as K2O (22%)	0390	21.44	0.2400	20.99	0.8004	0.3301	82	0.56	050.50	0
050	Soluble Potassium as K2O (22%)	0055	21.45	0.1800	20.99	0.8004	0.3301	82	0.57	050.00	0
050	Soluble Potassium as K2O (22%)	0325	21.45	0.1000	20.99	0.8004	0.3301	82	0.57	050.99	0
050	Soluble Potassium as K2O (22%)	0368	21.55	0.3100	20.99	0.8004	0.3301	82	0.69	050.99	0
050	Soluble Potassium as K2O (22%)	0354	21.56	0.1410	20.99	0.8004	0.3301	82	0.70	050.51	0
050	Soluble Potassium as K2O (22%)	0354	21.56	0.1410	20.99	0.8004	0.3301	82	0.70	050.52	0
050	Soluble Potassium as K2O (22%)	0324	21.60	1.200	20.99	0.8004	0.3301	82	0.76	050.50	0
050	Soluble Potassium as K2O (22%)	0513	21.63	0.0600	20.99	0.8004	0.3301	82	0.79	050.61	0
050	Soluble Potassium as K2O (22%)	0185	21.64	0.3400	20.99	0.8004	0.3301	82	0.81	050.30	0
050	Soluble Potassium as K2O (22%)	0451	21.65	1.190	20.99	0.8004	0.3301	82	0.81	050.99	0
050	Soluble Potassium as K2O (22%)	0307	21.86	0.1720	20.99	0.8004	0.3301	82	1.08	050.99	0
050	Soluble Potassium as K2O (22%)	0023	21.87	0.0100	20.99	0.8004	0.3301	82	1.09	050.51	0
050	Soluble Potassium as K2O (22%)	0041	21.94	1.260	20.99	0.8004	0.3301	82	1.18	050.60	0
050	Soluble Potassium as K2O (22%)	0420	21.96	0.3220	20.99	0.8004	0.3301	82	1.21	050.50	0
050	Soluble Potassium as K2O (22%)	0487	22.00	0.6000	20.99	0.8004	0.3301	82	1.26	050.99	0
050	Soluble Potassium as K2O (22%)	0035	22.07	0.4300	20.99	0.8004	0.3301	82	1.34	050.61	0
050	Soluble Potassium as K2O (22%)	0486	22.18	0.7700	20.99	0.8004	0.3301	82	1.47	050.51	0
050	Soluble Potassium as K2O (22%)	0510	22.34	0.0200	20.99	0.8004	0.3301	82	1.68	050.60	0
050	Soluble Potassium as K2O (22%)	0406	22.61	1.000	20.99	0.8004	0.3301	82	2.02	050.50	0
050	Soluble Potassium as K2O (22%)	0102	22.90	0.0000	20.99	0.8004	0.3301	82	2.38	050.00	0
050	Soluble Potassium as K2O (22%)	0474	23.03	0.2400	20.99	0.8004	0.3301	82	2.54	050.99	0
050	Soluble Potassium as K2O (22%)	0230	23.30	1.400	20.99	0.8004	0.3301	82	2.88	050.00	0
050	Soluble Potassium as K2O (22%)	0498	23.60	0.4000	20.99	0.8004	0.3301	82	3.26	050.31	0
050	Soluble Potassium as K2O (22%)	0073	28.24	1.240	20.99	0.8004	0.3301	82	9.05	050.30	0
050	Soluble Potassium as K2O (22%)	0455	135.6	230.2	20.99	0.8004	0.3301	82	143.19	050.99	2
060	Water (Free) (%)	0456	0.7750	0.0300	1.452	1.076	0.0326	4	-0.63	060.00	0
060	Water (Free) (%)	0096	0.9700	0.0400	1.452	1.076	0.0326	4	-0.45	060.00	0
060	Water (Free) (%)	0416	1.005	0.0004	1.452	1.076	0.0326	4	-0.42	060.00	0
060	Water (Free) (%)	0510	3.060	0.0600	1.452	1.076	0.0326	4	1.49	060.99	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				
101	Acid Soluble Calcium (%)	0035	4.945	0.3700	5.779	0.2434	0.1533	16	-3.43	101.30	0
101	Acid Soluble Calcium (%)	0389	5.345	0.4100	5.779	0.2434	0.1533	16	-1.78	101.99	0
101	Acid Soluble Calcium (%)	0117	5.575	0.2100	5.779	0.2434	0.1533	16	-0.84	101.33	0
101	Acid Soluble Calcium (%)	0354	5.616	0.1490	5.779	0.2434	0.1533	16	-0.67	101.30	0
101	Acid Soluble Calcium (%)	0482	5.635	0.3100	5.779	0.2434	0.1533	16	-0.59	101.30	0
101	Acid Soluble Calcium (%)	0423	5.672	0.0040	5.779	0.2434	0.1533	16	-0.44	101.32	0
101	Acid Soluble Calcium (%)	0474	5.715	0.0500	5.779	0.2434	0.1533	16	-0.26	101.99	0
101	Acid Soluble Calcium (%)	0049	5.750	0.0200	5.779	0.2434	0.1533	16	-0.12	101.30	0
101	Acid Soluble Calcium (%)	0472	5.818	0.0550	5.779	0.2434	0.1533	16	0.16	101.30	0
101	Acid Soluble Calcium (%)	0494	5.837	0.2261	5.779	0.2434	0.1533	16	0.24	101.33	0
101	Acid Soluble Calcium (%)	0102	5.845	0.0700	5.779	0.2434	0.1533	16	0.27	101.30	0
101	Acid Soluble Calcium (%)	0420	5.924	0.0589	5.779	0.2434	0.1533	16	0.60	101.30	0
101	Acid Soluble Calcium (%)	0421	5.950	0.1800	5.779	0.2434	0.1533	16	0.70	101.33	0
101	Acid Soluble Calcium (%)	0494	6.026	0.0619	5.779	0.2434	0.1533	16	1.02	101.30	0
101	Acid Soluble Calcium (%)	0041	6.095	0.0700	5.779	0.2434	0.1533	16	1.30	101.30	0
101	Acid Soluble Calcium (%)	0307	6.149	0.2080	5.779	0.2434	0.1533	16	1.52	101.30	0
101	Acid Soluble Calcium (%)	0096	6.680	1.000	5.779	0.2434	0.1533	16	3.70	101.30	1
121	Acid Soluble Magnesium (1.2%)	0230	0.9995*	0.0010	1.273	0.0657	0.0332	54	-4.17	121.30	0
121	Acid Soluble Magnesium (1.2%)	0482	1.105	0.0300	1.273	0.0657	0.0332	54	-2.56	121.30	0
121	Acid Soluble Magnesium (1.2%)	0474	1.120	0.1200	1.273	0.0657	0.0332	54	-2.33	121.30	0
121	Acid Soluble Magnesium (1.2%)	0397	1.125	0.0100	1.273	0.0657	0.0332	54	-2.25	121.33	0
121	Acid Soluble Magnesium (1.2%)	0486	1.135	0.0100	1.273	0.0657	0.0332	54	-2.10	121.33	0
121	Acid Soluble Magnesium (1.2%)	0035	1.145	0.0100	1.273	0.0657	0.0332	54	-1.95	121.30	0
121	Acid Soluble Magnesium (1.2%)	0090	1.185	0.0300	1.273	0.0657	0.0332	54	-1.34	121.30	0
121	Acid Soluble Magnesium (1.2%)	0102	1.185	0.0100	1.273	0.0657	0.0332	54	-1.34	121.30	0
121	Acid Soluble Magnesium (1.2%)	0394	1.200	0.0000	1.273	0.0657	0.0332	54	-1.11	121.30	0
121	Acid Soluble Magnesium (1.2%)	0029	1.219	0.0100	1.273	0.0657	0.0332	54	-0.82	121.00	0
121	Acid Soluble Magnesium (1.2%)	0506	1.220	0.0800	1.273	0.0657	0.0332	54	-0.81	121.99	0
121	Acid Soluble Magnesium (1.2%)	0231	1.225	0.0100	1.273	0.0657	0.0332	54	-0.73	121.30	0
121	Acid Soluble Magnesium (1.2%)	0423	1.225	0.0100	1.273	0.0657	0.0332	54	-0.73	121.32	0
121	Acid Soluble Magnesium (1.2%)	0258	1.230	0.0000	1.273	0.0657	0.0332	54	-0.66	121.00	0
121	Acid Soluble Magnesium (1.2%)	0444	1.235	0.0700	1.273	0.0657	0.0332	54	-0.58	121.30	0
121	Acid Soluble Magnesium (1.2%)	0095	1.240	0.0600	1.273	0.0657	0.0332	54	-0.50	121.30	0
121	Acid Soluble Magnesium (1.2%)	0157	1.240	0.0400	1.273	0.0657	0.0332	54	-0.50	121.30	0
121	Acid Soluble Magnesium (1.2%)	0501	1.240	0.0600	1.273	0.0657	0.0332	54	-0.50	121.30	0
121	Acid Soluble Magnesium (1.2%)	0105	1.243	0.0510	1.273	0.0657	0.0332	54	-0.47	121.00	0
121	Acid Soluble Magnesium (1.2%)	0114	1.250	0.0000	1.273	0.0657	0.0332	54	-0.35	121.30	0
121	Acid Soluble Magnesium (1.2%)	0354	1.255	0.0370	1.273	0.0657	0.0332	54	-0.28	121.30	0
121	Acid Soluble Magnesium (1.2%)	0389	1.255	0.0300	1.273	0.0657	0.0332	54	-0.28	121.99	0
121	Acid Soluble Magnesium (1.2%)	0055	1.260	0.0200	1.273	0.0657	0.0332	54	-0.20	121.30	0
121	Acid Soluble Magnesium (1.2%)	0040	1.265	0.0700	1.273	0.0657	0.0332	54	-0.12	121.00	0
121	Acid Soluble Magnesium (1.2%)	0025	1.265	0.0100	1.273	0.0657	0.0332	54	-0.12	121.33	0
121	Acid Soluble Magnesium (1.2%)	0043	1.269	0.0170	1.273	0.0657	0.0332	54	-0.07	121.00	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				
121	Acid Soluble Magnesium (1.2%)	0034	1.274	0.0120	1.273	0.0657	0.0332	54	0.01	121.33	0
121	Acid Soluble Magnesium (1.2%)	0360	1.275	0.0100	1.273	0.0657	0.0332	54	0.03	121.30	0
121	Acid Soluble Magnesium (1.2%)	0390	1.275	0.0700	1.273	0.0657	0.0332	54	0.03	121.30	0
121	Acid Soluble Magnesium (1.2%)	0023	1.276	0.0430	1.273	0.0657	0.0332	54	0.04	121.30	0
121	Acid Soluble Magnesium (1.2%)	0049	1.290	0.0200	1.273	0.0657	0.0332	54	0.26	121.30	0
121	Acid Soluble Magnesium (1.2%)	0234	1.290	0.0200	1.273	0.0657	0.0332	54	0.26	121.30	0
121	Acid Soluble Magnesium (1.2%)	0096	1.295	0.0500	1.273	0.0657	0.0332	54	0.33	121.30	0
121	Acid Soluble Magnesium (1.2%)	0307	1.301	0.0360	1.273	0.0657	0.0332	54	0.42	121.30	0
121	Acid Soluble Magnesium (1.2%)	0177	1.303	0.0128	1.273	0.0657	0.0332	54	0.46	121.33	0
121	Acid Soluble Magnesium (1.2%)	0485	1.310	0.0400	1.273	0.0657	0.0332	54	0.56	121.00	0
121	Acid Soluble Magnesium (1.2%)	0324	1.310	0.0600	1.273	0.0657	0.0332	54	0.56	121.30	0
121	Acid Soluble Magnesium (1.2%)	0368	1.310	0.0000	1.273	0.0657	0.0332	54	0.56	121.30	0
121	Acid Soluble Magnesium (1.2%)	0117	1.310	0.0000	1.273	0.0657	0.0332	54	0.56	121.33	0
121	Acid Soluble Magnesium (1.2%)	0421	1.310	0.1000	1.273	0.0657	0.0332	54	0.56	121.33	0
121	Acid Soluble Magnesium (1.2%)	0420	1.313	0.0140	1.273	0.0657	0.0332	54	0.61	121.30	0
121	Acid Soluble Magnesium (1.2%)	0037	1.320	0.0500	1.273	0.0657	0.0332	54	0.71	121.33	0
121	Acid Soluble Magnesium (1.2%)	0494	1.323	0.0056	1.273	0.0657	0.0332	54	0.76	121.30	0
121	Acid Soluble Magnesium (1.2%)	0433	1.329	0.0120	1.273	0.0657	0.0332	54	0.85	121.30	0
121	Acid Soluble Magnesium (1.2%)	0220	1.330	0.0200	1.273	0.0657	0.0332	54	0.87	121.33	0
121	Acid Soluble Magnesium (1.2%)	0291	1.335	0.0100	1.273	0.0657	0.0332	54	0.94	121.30	0
121	Acid Soluble Magnesium (1.2%)	0494	1.345	0.0235	1.273	0.0657	0.0332	54	1.10	121.33	0
121	Acid Soluble Magnesium (1.2%)	0169	1.355	0.0500	1.273	0.0657	0.0332	54	1.25	121.00	0
121	Acid Soluble Magnesium (1.2%)	0041	1.355	0.0500	1.273	0.0657	0.0332	54	1.25	121.30	0
121	Acid Soluble Magnesium (1.2%)	0028	1.360	0.0200	1.273	0.0657	0.0332	54	1.32	121.00	0
121	Acid Soluble Magnesium (1.2%)	0513	1.360	0.0200	1.273	0.0657	0.0332	54	1.32	121.00	0
121	Acid Soluble Magnesium (1.2%)	0371	1.390	0.0600	1.273	0.0657	0.0332	54	1.78	121.30	0
121	Acid Soluble Magnesium (1.2%)	0483	1.435	0.1300	1.273	0.0657	0.0332	54	2.46	121.30	0
121	Acid Soluble Magnesium (1.2%)	0472	1.450	0.0600	1.273	0.0657	0.0332	54	2.69	121.30	0
131	Water Soluble Magnesium (%)	0444	0.7350	0.0900	1.124	0.1126	0.0296	12	-3.45	131.30	0
131	Water Soluble Magnesium (%)	0498	0.7500	0.1000	1.124	0.1126	0.0296	12	-3.32	131.00	0
131	Water Soluble Magnesium (%)	0394	0.9900	0.0200	1.124	0.1126	0.0296	12	-1.19	131.30	0
131	Water Soluble Magnesium (%)	0025	1.070	0.0600	1.124	0.1126	0.0296	12	-0.48	131.30	0
131	Water Soluble Magnesium (%)	0368	1.080	0.0000	1.124	0.1126	0.0296	12	-0.39	131.30	0
131	Water Soluble Magnesium (%)	0029	1.114	0.0250	1.124	0.1126	0.0296	12	-0.09	131.00	0
131	Water Soluble Magnesium (%)	0513	1.190	0.0200	1.124	0.1126	0.0296	12	0.59	131.00	0
131	Water Soluble Magnesium (%)	0485	1.195	0.0100	1.124	0.1126	0.0296	12	0.63	131.00	0
131	Water Soluble Magnesium (%)	0220	1.200	0.0000	1.124	0.1126	0.0296	12	0.68	131.30	0
131	Water Soluble Magnesium (%)	0230	1.200	0.0000	1.124	0.1126	0.0296	12	0.68	131.30	0
131	Water Soluble Magnesium (%)	0510	1.230	0.0000	1.124	0.1126	0.0296	12	0.94	131.70	0
131	Water Soluble Magnesium (%)	0027	1.245	0.0300	1.124	0.1126	0.0296	12	1.08	131.30	0
131	Water Soluble Magnesium (%)	0481	10.65	0.1000	1.124	0.1126	0.0296	12	84.61	131.00	2
143	Elemental Sulfur (%)	0472	9.990	0.1400	10.42	0.3947	0.0800	5	-1.08	143.99	0
143	Elemental Sulfur (%)	0025	10.13	0.0400	10.42	0.3947	0.0800	5	-0.73	143.00	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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143	Elemental Sulfur (%)	0389	10.31	0.0500	10.42	0.3947	0.0800	5	-0.29	143.99	0
143	Elemental Sulfur (%)	0055	10.82	0.1100	10.42	0.3947	0.0800	5	1.01	143.00	0
143	Elemental Sulfur (%)	0291	10.85	0.0600	10.42	0.3947	0.0800	5	1.09	143.99	0
143	Elemental Sulfur (%)	0390	9.850	0.7000	10.42	0.3947	0.0800	5	-1.44	143.99	1
145	Sulfate Sulfur, HCl soluble (%)	0510	8.230	0.0000	10.06	0.5658	0.2086	7	-3.23	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0444	8.855	0.2500	10.06	0.5658	0.2086	7	-2.13	145.99	0
145	Sulfate Sulfur, HCl soluble (%)	0027	9.945	0.1500	10.06	0.5658	0.2086	7	-0.20	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0368	10.10	0.4600	10.06	0.5658	0.2086	7	0.07	145.99	0
145	Sulfate Sulfur, HCl soluble (%)	0043	10.34	0.0300	10.06	0.5658	0.2086	7	0.49	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0397	10.40	0.2000	10.06	0.5658	0.2086	7	0.60	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0169	11.65	0.3700	10.06	0.5658	0.2086	7	2.80	145.99	0
146	Total Sulfur in Liquid (%)	0483	9.715	0.3100	10.50	1.114	0.2150	2	-0.71	146.99	0
146	Total Sulfur in Liquid (%)	0292	11.29	0.1200	10.50	1.114	0.2150	2	0.71	146.00	0
148	Total Sulfur (12%)	0117	9.165*	0.2100	10.23	0.5069	0.1899	35	-2.10	148.07	0
148	Total Sulfur (12%)	0157	9.315*	0.2100	10.23	0.5069	0.1899	35	-1.80	148.00	0
148	Total Sulfur (12%)	0451	9.430*	0.0800	10.23	0.5069	0.1899	35	-1.58	148.00	0
148	Total Sulfur (12%)	0360	9.500*	0.2600	10.23	0.5069	0.1899	35	-1.44	148.00	0
148	Total Sulfur (12%)	0354	9.698	0.1880	10.23	0.5069	0.1899	35	-1.05	148.99	0
148	Total Sulfur (12%)	0136	9.750	0.1600	10.23	0.5069	0.1899	35	-0.95	148.00	0
148	Total Sulfur (12%)	0444	9.770	0.2600	10.23	0.5069	0.1899	35	-0.91	148.07	0
148	Total Sulfur (12%)	0394	9.800	0.4000	10.23	0.5069	0.1899	35	-0.85	148.04	0
148	Total Sulfur (12%)	0513	9.830	0.0200	10.23	0.5069	0.1899	35	-0.79	148.99	0
148	Total Sulfur (12%)	0481	9.915	0.1300	10.23	0.5069	0.1899	35	-0.62	148.01	0
148	Total Sulfur (12%)	0351	9.946	0.1007	10.23	0.5069	0.1899	35	-0.56	148.99	0
148	Total Sulfur (12%)	0096	10.10	0.2200	10.23	0.5069	0.1899	35	-0.26	148.99	0
148	Total Sulfur (12%)	0029	10.15	0.1500	10.23	0.5069	0.1899	35	-0.17	148.00	0
148	Total Sulfur (12%)	0324	10.15	0.1000	10.23	0.5069	0.1899	35	-0.16	148.01	0
148	Total Sulfur (12%)	0023	10.17	0.3590	10.23	0.5069	0.1899	35	-0.12	148.07	0
148	Total Sulfur (12%)	0485	10.20	0.1500	10.23	0.5069	0.1899	35	-0.07	148.01	0
148	Total Sulfur (12%)	0102	10.20	0.0700	10.23	0.5069	0.1899	35	-0.07	148.07	0
148	Total Sulfur (12%)	0102	10.24	0.0500	10.23	0.5069	0.1899	35	0.01	148.01	0
148	Total Sulfur (12%)	0029	10.25	0.0600	10.23	0.5069	0.1899	35	0.04	148.01	0
148	Total Sulfur (12%)	0482	10.25	0.1000	10.23	0.5069	0.1899	35	0.04	148.99	0
148	Total Sulfur (12%)	0028	10.26	0.0900	10.23	0.5069	0.1899	35	0.05	148.01	0
148	Total Sulfur (12%)	0506	10.31	0.1900	10.23	0.5069	0.1899	35	0.15	148.99	0
148	Total Sulfur (12%)	0494	10.31	1.018	10.23	0.5069	0.1899	35	0.15	148.07	0
148	Total Sulfur (12%)	0157	10.40	0.0000	10.23	0.5069	0.1899	35	0.34	148.01	0
148	Total Sulfur (12%)	0177	10.44	0.0641	10.23	0.5069	0.1899	35	0.42	148.07	0
148	Total Sulfur (12%)	0095	10.45	0.1700	10.23	0.5069	0.1899	35	0.42	148.01	0
148	Total Sulfur (12%)	0037	10.50	0.3700	10.23	0.5069	0.1899	35	0.52	148.07	0
148	Total Sulfur (12%)	0307	10.62	0.2960	10.23	0.5069	0.1899	35	0.77	148.99	0
148	Total Sulfur (12%)	0040	10.80	0.2000	10.23	0.5069	0.1899	35	1.12	148.01	0
148	Total Sulfur (12%)	0035	10.80	0.0000	10.23	0.5069	0.1899	35	1.12	148.99	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				
148	Total Sulfur (12%)	0049	10.90	0.4000	10.23	0.5069	0.1899	35	1.32	148.00	0
148	Total Sulfur (12%)	0486	11.66	0.2500	10.23	0.5069	0.1899	35	2.81	148.07	0
148	Total Sulfur (12%)	0220	11.85	0.0500	10.23	0.5069	0.1899	35	3.19	148.99	0
148	Total Sulfur (12%)	0230	12.20	0.2000	10.23	0.5069	0.1899	35	3.89	148.01	0
148	Total Sulfur (12%)	0513	12.32	0.0700	10.23	0.5069	0.1899	35	4.11	148.01	0
148	Total Sulfur (12%)	0474	12.59	2.150	10.23	0.5069	0.1899	35	4.65	148.99	1
149	Sulfur - HNO3 soluble (%)	0423	9.705	0.0500	9.768	0.0569	0.2500	3	-1.11	149.04	0
149	Sulfur - HNO3 soluble (%)	0501	9.785	0.1300	9.768	0.0569	0.2500	3	0.29	149.04	0
149	Sulfur - HNO3 soluble (%)	0009	9.815	0.5700	9.768	0.0569	0.2500	3	0.82	149.04	0
151	Acid Soluble Arsenic (ppm)	0096	7.450	0.7000	25.01	2.480	1.058	18	-7.08	151.30	0
151	Acid Soluble Arsenic (ppm)	0474	9.250	2.900	25.01	2.480	1.058	18	-6.35	151.30	0
151	Acid Soluble Arsenic (ppm)	0498	15.15	1.100	25.01	2.480	1.058	18	-3.98	151.00	0
151	Acid Soluble Arsenic (ppm)	0394	20.50	0.4000	25.01	2.480	1.058	18	-1.82	151.30	0
151	Acid Soluble Arsenic (ppm)	0481	21.45	0.1000	25.01	2.480	1.058	18	-1.44	151.00	0
151	Acid Soluble Arsenic (ppm)	0368	23.90	0.2000	25.01	2.480	1.058	18	-0.45	151.30	0
151	Acid Soluble Arsenic (ppm)	0102	24.89	1.300	25.01	2.480	1.058	18	-0.05	151.30	0
151	Acid Soluble Arsenic (ppm)	0230	24.90	1.000	25.01	2.480	1.058	18	-0.05	151.30	0
151	Acid Soluble Arsenic (ppm)	0136	25.50	1.000	25.01	2.480	1.058	18	0.20	151.00	0
151	Acid Soluble Arsenic (ppm)	0095	25.50	3.000	25.01	2.480	1.058	18	0.20	151.30	0
151	Acid Soluble Arsenic (ppm)	0220	25.50	0.6000	25.01	2.480	1.058	18	0.20	151.33	0
151	Acid Soluble Arsenic (ppm)	0220	25.50	0.6000	25.01	2.480	1.058	18	0.20	151.34	0
151	Acid Soluble Arsenic (ppm)	0389	26.45	0.7000	25.01	2.480	1.058	18	0.58	151.30	0
151	Acid Soluble Arsenic (ppm)	0037	26.88	0.2400	25.01	2.480	1.058	18	0.75	151.33	0
151	Acid Soluble Arsenic (ppm)	0049	26.98	0.0100	25.01	2.480	1.058	18	0.79	151.30	0
151	Acid Soluble Arsenic (ppm)	0220	27.50	1.000	25.01	2.480	1.058	18	1.00	151.99	0
151	Acid Soluble Arsenic (ppm)	0009	27.60	1.400	25.01	2.480	1.058	18	1.04	151.30	0
151	Acid Soluble Arsenic (ppm)	0494	32.82	2.789	25.01	2.480	1.058	18	3.15	151.33	0
165	Acid Soluble Boron (0.45%)	0055	0.1715*	0.0010	0.3424	0.0328	0.0116	43	-5.21	165.00	0
165	Acid Soluble Boron (0.45%)	0258	0.2385*	0.0050	0.3424	0.0328	0.0116	43	-3.17	165.00	0
165	Acid Soluble Boron (0.45%)	0324	0.2700*	0.0580	0.3424	0.0328	0.0116	43	-2.21	165.30	0
165	Acid Soluble Boron (0.45%)	0506	0.3000	0.0000	0.3424	0.0328	0.0116	43	-1.29	165.00	0
165	Acid Soluble Boron (0.45%)	0397	0.3000	0.0020	0.3424	0.0328	0.0116	43	-1.29	165.30	0
165	Acid Soluble Boron (0.45%)	0230	0.3030	0.0620	0.3424	0.0328	0.0116	43	-1.20	165.99	0
165	Acid Soluble Boron (0.45%)	0291	0.3050	0.0100	0.3424	0.0328	0.0116	43	-1.14	165.99	0
165	Acid Soluble Boron (0.45%)	0423	0.3070	0.0020	0.3424	0.0328	0.0116	43	-1.08	165.99	0
165	Acid Soluble Boron (0.45%)	0029	0.3160	0.0120	0.3424	0.0328	0.0116	43	-0.80	165.00	0
165	Acid Soluble Boron (0.45%)	0513	0.3175	0.0050	0.3424	0.0328	0.0116	43	-0.76	165.99	0
165	Acid Soluble Boron (0.45%)	0354	0.3180	0.0080	0.3424	0.0328	0.0116	43	-0.74	165.30	0
165	Acid Soluble Boron (0.45%)	0472	0.3200	0.0000	0.3424	0.0328	0.0116	43	-0.68	165.99	0
165	Acid Soluble Boron (0.45%)	0009	0.3300	0.0000	0.3424	0.0328	0.0116	43	-0.38	165.99	0
165	Acid Soluble Boron (0.45%)	0501	0.3300	0.0000	0.3424	0.0328	0.0116	43	-0.38	165.99	0
165	Acid Soluble Boron (0.45%)	0494	0.3311	0.0136	0.3424	0.0328	0.0116	43	-0.34	165.30	0
165	Acid Soluble Boron (0.45%)	0023	0.3335	0.0030	0.3424	0.0328	0.0116	43	-0.27	165.30	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				
165	Acid Soluble Boron (0.45%)	0481	0.3350	0.0100	0.3424	0.0328	0.0116	43	-0.22	165.00	0
165	Acid Soluble Boron (0.45%)	0394	0.3350	0.0100	0.3424	0.0328	0.0116	43	-0.22	165.30	0
165	Acid Soluble Boron (0.45%)	0090	0.3365	0.0070	0.3424	0.0328	0.0116	43	-0.18	165.30	0
165	Acid Soluble Boron (0.45%)	0389	0.3375	0.0430	0.3424	0.0328	0.0116	43	-0.15	165.30	0
165	Acid Soluble Boron (0.45%)	0037	0.3380	0.0240	0.3424	0.0328	0.0116	43	-0.13	165.00	0
165	Acid Soluble Boron (0.45%)	0307	0.3420	0.0120	0.3424	0.0328	0.0116	43	-0.01	165.30	0
165	Acid Soluble Boron (0.45%)	0040	0.3480	0.0040	0.3424	0.0328	0.0116	43	0.17	165.99	0
165	Acid Soluble Boron (0.45%)	0421	0.3500	0.0000	0.3424	0.0328	0.0116	43	0.23	165.99	0
165	Acid Soluble Boron (0.45%)	0482	0.3500	0.0000	0.3424	0.0328	0.0116	43	0.23	165.99	0
165	Acid Soluble Boron (0.45%)	0485	0.3520	0.0180	0.3424	0.0328	0.0116	43	0.29	165.30	0
165	Acid Soluble Boron (0.45%)	0028	0.3525	0.0050	0.3424	0.0328	0.0116	43	0.31	165.00	0
165	Acid Soluble Boron (0.45%)	0049	0.3550	0.0100	0.3424	0.0328	0.0116	43	0.39	165.99	0
165	Acid Soluble Boron (0.45%)	0095	0.3550	0.0100	0.3424	0.0328	0.0116	43	0.39	165.99	0
165	Acid Soluble Boron (0.45%)	0513	0.3585	0.0030	0.3424	0.0328	0.0116	43	0.49	165.00	0
165	Acid Soluble Boron (0.45%)	0234	0.3600	0.0400	0.3424	0.0328	0.0116	43	0.54	165.30	0
165	Acid Soluble Boron (0.45%)	0220	0.3630	0.0060	0.3424	0.0328	0.0116	43	0.63	165.00	0
165	Acid Soluble Boron (0.45%)	0444	0.3650	0.0100	0.3424	0.0328	0.0116	43	0.69	165.30	0
165	Acid Soluble Boron (0.45%)	0368	0.3650	0.0100	0.3424	0.0328	0.0116	43	0.69	165.99	0
165	Acid Soluble Boron (0.45%)	0486	0.3700	0.0200	0.3424	0.0328	0.0116	43	0.84	165.30	0
165	Acid Soluble Boron (0.45%)	0433	0.3715	0.0007	0.3424	0.0328	0.0116	43	0.89	165.30	0
165	Acid Soluble Boron (0.45%)	0360	0.3745	0.0030	0.3424	0.0328	0.0116	43	0.98	165.99	0
165	Acid Soluble Boron (0.45%)	0117	0.3785	0.0030	0.3424	0.0328	0.0116	43	1.10	165.30	0
165	Acid Soluble Boron (0.45%)	0043	0.3800	0.0100	0.3424	0.0328	0.0116	43	1.15	165.99	0
165	Acid Soluble Boron (0.45%)	0498	0.3850	0.0100	0.3424	0.0328	0.0116	43	1.30	165.00	0
165	Acid Soluble Boron (0.45%)	0231	0.3900	0.0000	0.3424	0.0328	0.0116	43	1.45	165.30	0
165	Acid Soluble Boron (0.45%)	0371	0.4250	0.0100	0.3424	0.0328	0.0116	43	2.52	165.30	0
165	Acid Soluble Boron (0.45%)	0042	0.5000	0.0400	0.3424	0.0328	0.0116	43	4.81	165.99	0
165	Acid Soluble Boron (0.45%)	0483	3.815	130.0	0.3424	0.0328	0.0116	43	116315.74	165.99	2
171	Water Soluble Boron (%)	0444	0.3250	0.0500	0.3503	0.0357	0.0325	2	-0.71	171.99	0
171	Water Soluble Boron (%)	0027	0.3755	0.0150	0.3503	0.0357	0.0325	2	0.71	171.99	0
181	Acid Soluble Cadmium (ppm)	0035	9.230	0.1200	11.19	0.6640	0.2665	20	-2.95	181.30	0
181	Acid Soluble Cadmium (ppm)	0230	9.305	0.0700	11.19	0.6640	0.2665	20	-2.84	181.30	0
181	Acid Soluble Cadmium (ppm)	0096	10.05	0.3000	11.19	0.6640	0.2665	20	-1.72	181.30	0
181	Acid Soluble Cadmium (ppm)	0487	10.42	0.2400	11.19	0.6640	0.2665	20	-1.16	181.99	0
181	Acid Soluble Cadmium (ppm)	0444	10.49	0.5900	11.19	0.6640	0.2665	20	-1.06	181.30	0
181	Acid Soluble Cadmium (ppm)	0481	10.60	0.4000	11.19	0.6640	0.2665	20	-0.89	181.00	0
181	Acid Soluble Cadmium (ppm)	0394	10.70	0.6000	11.19	0.6640	0.2665	20	-0.74	181.30	0
181	Acid Soluble Cadmium (ppm)	0220	11.00	0.2000	11.19	0.6640	0.2665	20	-0.29	181.34	0
181	Acid Soluble Cadmium (ppm)	0009	11.10	0.2000	11.19	0.6640	0.2665	20	-0.13	181.30	0
181	Acid Soluble Cadmium (ppm)	0037	11.28	0.6800	11.19	0.6640	0.2665	20	0.14	181.33	0
181	Acid Soluble Cadmium (ppm)	0102	11.40	0.0200	11.19	0.6640	0.2665	20	0.32	181.30	0
181	Acid Soluble Cadmium (ppm)	0389	11.50	1.000	11.19	0.6640	0.2665	20	0.47	181.30	0
181	Acid Soluble Cadmium (ppm)	0368	11.50	0.0000	11.19	0.6640	0.2665	20	0.47	181.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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181	Acid Soluble Cadmium (ppm)	0136	11.55	0.1000	11.19	0.6640	0.2665	20	0.54	181.00	0
181	Acid Soluble Cadmium (ppm)	0474	11.58	0.0100	11.19	0.6640	0.2665	20	0.58	181.30	0
181	Acid Soluble Cadmium (ppm)	0482	11.70	0.0000	11.19	0.6640	0.2665	20	0.77	181.30	0
181	Acid Soluble Cadmium (ppm)	0220	11.70	0.0000	11.19	0.6640	0.2665	20	0.77	181.33	0
181	Acid Soluble Cadmium (ppm)	0506	11.80	0.6000	11.19	0.6640	0.2665	20	0.92	181.99	0
181	Acid Soluble Cadmium (ppm)	0095	12.00	0.0000	11.19	0.6640	0.2665	20	1.22	181.30	0
181	Acid Soluble Cadmium (ppm)	0498	21.30	0.2000	11.19	0.6640	0.2665	20	15.23	181.00	0
181	Acid Soluble Cadmium (ppm)	0494	11.59	2.133	11.19	0.6640	0.2665	20	0.61	181.33	1
190	Water Soluble Chlorine (18%)	0506	14.00*	0.2000	16.19	0.2999	0.1343	21	-7.30	190.00	0
190	Water Soluble Chlorine (18%)	0444	15.70	0.4000	16.19	0.2999	0.1343	21	-1.63	190.00	0
190	Water Soluble Chlorine (18%)	0055	15.79	0.0200	16.19	0.2999	0.1343	21	-1.33	190.00	0
190	Water Soluble Chlorine (18%)	0397	15.90	0.0000	16.19	0.2999	0.1343	21	-0.97	190.00	0
190	Water Soluble Chlorine (18%)	0043	16.02	0.0800	16.19	0.2999	0.1343	21	-0.57	190.00	0
190	Water Soluble Chlorine (18%)	0029	16.04	0.1500	16.19	0.2999	0.1343	21	-0.52	190.99	0
190	Water Soluble Chlorine (18%)	0220	16.04	0.0200	16.19	0.2999	0.1343	21	-0.50	190.00	0
190	Water Soluble Chlorine (18%)	0102	16.10	0.0600	16.19	0.2999	0.1343	21	-0.30	190.00	0
190	Water Soluble Chlorine (18%)	0027	16.15	0.5000	16.19	0.2999	0.1343	21	-0.13	190.00	0
190	Water Soluble Chlorine (18%)	0481	16.16	0.2100	16.19	0.2999	0.1343	21	-0.12	190.00	0
190	Water Soluble Chlorine (18%)	0494	16.19	0.3300	16.19	0.2999	0.1343	21	-0.02	190.00	0
190	Water Soluble Chlorine (18%)	0394	16.20	0.0000	16.19	0.2999	0.1343	21	0.03	190.00	0
190	Water Soluble Chlorine (18%)	0105	16.25	0.0500	16.19	0.2999	0.1343	21	0.18	190.00	0
190	Water Soluble Chlorine (18%)	0028	16.26	0.0200	16.19	0.2999	0.1343	21	0.23	190.00	0
190	Water Soluble Chlorine (18%)	0389	16.38	0.2400	16.19	0.2999	0.1343	21	0.63	190.99	0
190	Water Soluble Chlorine (18%)	0485	16.41	0.0600	16.19	0.2999	0.1343	21	0.73	190.00	0
190	Water Soluble Chlorine (18%)	0029	16.43	0.0500	16.19	0.2999	0.1343	21	0.78	190.00	0
190	Water Soluble Chlorine (18%)	0513	16.48	0.0700	16.19	0.2999	0.1343	21	0.95	190.00	0
190	Water Soluble Chlorine (18%)	0389	16.49	0.1500	16.19	0.2999	0.1343	21	0.98	190.00	0
190	Water Soluble Chlorine (18%)	0455	16.70	0.0100	16.19	0.2999	0.1343	21	1.68	190.99	0
190	Water Soluble Chlorine (18%)	0498	21.40	0.2000	16.19	0.2999	0.1343	21	17.37	190.00	0
190	Water Soluble Chlorine (18%)	0368	0.1200*	0.0200	16.19	0.2999	0.1343	21	-53.58	190.99	2
191	Acid Soluble Chromium (ppm)	0474	26.00	0.0000	34.43	5.082	1.636	16	-1.66	191.30	0
191	Acid Soluble Chromium (ppm)	0368	29.60	1.200	34.43	5.082	1.636	16	-0.95	191.30	0
191	Acid Soluble Chromium (ppm)	0027	30.50	1.000	34.43	5.082	1.636	16	-0.77	191.30	0
191	Acid Soluble Chromium (ppm)	0394	30.50	0.4000	34.43	5.082	1.636	16	-0.77	191.30	0
191	Acid Soluble Chromium (ppm)	0482	30.90	1.000	34.43	5.082	1.636	16	-0.70	191.30	0
191	Acid Soluble Chromium (ppm)	0230	31.45	0.7000	34.43	5.082	1.636	16	-0.59	191.30	0
191	Acid Soluble Chromium (ppm)	0481	32.00	0.0000	34.43	5.082	1.636	16	-0.48	191.00	0
191	Acid Soluble Chromium (ppm)	0102	32.59	0.1400	34.43	5.082	1.636	16	-0.36	191.30	0
191	Acid Soluble Chromium (ppm)	0035	35.30	0.4000	34.43	5.082	1.636	16	0.17	191.30	0
191	Acid Soluble Chromium (ppm)	0096	36.45	3.700	34.43	5.082	1.636	16	0.40	191.30	0
191	Acid Soluble Chromium (ppm)	0037	36.63	1.790	34.43	5.082	1.636	16	0.43	191.33	0
191	Acid Soluble Chromium (ppm)	0494	37.15	6.252	34.43	5.082	1.636	16	0.53	191.33	0
191	Acid Soluble Chromium (ppm)	0009	38.75	2.100	34.43	5.082	1.636	16	0.85	191.30	0

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191	Acid Soluble Chromium (ppm)	0220	39.65	0.5000	34.43	5.082	1.636	16	1.03	191.33	0
191	Acid Soluble Chromium (ppm)	0506	42.50	1.000	34.43	5.082	1.636	16	1.59	191.99	0
191	Acid Soluble Chromium (ppm)	0220	45.00	6.000	34.43	5.082	1.636	16	2.08	191.34	0
202	Acid Soluble Cobalt (ppm)	0474	2.000	0.0000	4.307	0.7055	0.3202	13	-3.27	202.30	0
202	Acid Soluble Cobalt (ppm)	0102	3.345	0.1500	4.307	0.7055	0.3202	13	-1.36	202.30	0
202	Acid Soluble Cobalt (ppm)	0035	3.445	0.3700	4.307	0.7055	0.3202	13	-1.22	202.30	0
202	Acid Soluble Cobalt (ppm)	0368	3.750	0.1000	4.307	0.7055	0.3202	13	-0.79	202.30	0
202	Acid Soluble Cobalt (ppm)	0230	3.875	0.4900	4.307	0.7055	0.3202	13	-0.61	202.30	0
202	Acid Soluble Cobalt (ppm)	0482	4.100	0.2000	4.307	0.7055	0.3202	13	-0.29	202.30	0
202	Acid Soluble Cobalt (ppm)	0095	4.500	1.000	4.307	0.7055	0.3202	13	0.27	202.30	0
202	Acid Soluble Cobalt (ppm)	0220	4.500	0.4000	4.307	0.7055	0.3202	13	0.27	202.33	0
202	Acid Soluble Cobalt (ppm)	0494	4.717	0.0527	4.307	0.7055	0.3202	13	0.58	202.33	0
202	Acid Soluble Cobalt (ppm)	0220	4.750	0.3000	4.307	0.7055	0.3202	13	0.63	202.34	0
202	Acid Soluble Cobalt (ppm)	0009	4.900	0.6000	4.307	0.7055	0.3202	13	0.84	202.30	0
202	Acid Soluble Cobalt (ppm)	0096	4.935	0.1100	4.307	0.7055	0.3202	13	0.89	202.30	0
202	Acid Soluble Cobalt (ppm)	0494	5.782	0.3901	4.307	0.7055	0.3202	13	2.09	202.30	0
221	Acid Soluble Copper (%)	0397	0.0403	0.0013	0.0501	0.0047	0.0034	31	-2.11	221.33	0
221	Acid Soluble Copper (%)	0230	0.0408	0.0035	0.0501	0.0047	0.0034	31	-2.01	221.30	0
221	Acid Soluble Copper (%)	0324	0.0438	0.0042	0.0501	0.0047	0.0034	31	-1.36	221.30	0
221	Acid Soluble Copper (%)	0035	0.0443	0.0038	0.0501	0.0047	0.0034	31	-1.25	221.30	0
221	Acid Soluble Copper (%)	0117	0.0448	0.0010	0.0501	0.0047	0.0034	31	-1.14	221.33	0
221	Acid Soluble Copper (%)	0009	0.0460	0.0060	0.0501	0.0047	0.0034	31	-0.89	221.30	0
221	Acid Soluble Copper (%)	0389	0.0470	0.0020	0.0501	0.0047	0.0034	31	-0.67	221.99	0
221	Acid Soluble Copper (%)	0444	0.0475	0.0010	0.0501	0.0047	0.0034	31	-0.57	221.30	0
221	Acid Soluble Copper (%)	0096	0.0482	0.0034	0.0501	0.0047	0.0034	31	-0.42	221.30	0
221	Acid Soluble Copper (%)	0307	0.0485	0.0010	0.0501	0.0047	0.0034	31	-0.35	221.30	0
221	Acid Soluble Copper (%)	0474	0.0487	0.0056	0.0501	0.0047	0.0034	31	-0.31	221.32	0
221	Acid Soluble Copper (%)	0498	0.0490	0.0020	0.0501	0.0047	0.0034	31	-0.25	221.00	0
221	Acid Soluble Copper (%)	0220	0.0490	0.0060	0.0501	0.0047	0.0034	31	-0.25	221.33	0
221	Acid Soluble Copper (%)	0105	0.0492	0.0021	0.0501	0.0047	0.0034	31	-0.21	221.00	0
221	Acid Soluble Copper (%)	0433	0.0493	0.0003	0.0501	0.0047	0.0034	31	-0.19	221.30	0
221	Acid Soluble Copper (%)	0041	0.0500	0.0000	0.0501	0.0047	0.0034	31	-0.03	221.30	0
221	Acid Soluble Copper (%)	0095	0.0500	0.0000	0.0501	0.0047	0.0034	31	-0.03	221.30	0
221	Acid Soluble Copper (%)	0402	0.0500	0.0000	0.0501	0.0047	0.0034	31	-0.03	221.30	0
221	Acid Soluble Copper (%)	0506	0.0500	0.0000	0.0501	0.0047	0.0034	31	-0.03	221.99	0
221	Acid Soluble Copper (%)	0043	0.0513	0.0015	0.0501	0.0047	0.0034	31	0.24	221.00	0
221	Acid Soluble Copper (%)	0494	0.0513	0.0045	0.0501	0.0047	0.0034	31	0.24	221.33	0
221	Acid Soluble Copper (%)	0481	0.0515	0.0010	0.0501	0.0047	0.0034	31	0.29	221.00	0
221	Acid Soluble Copper (%)	0494	0.0532	0.0035	0.0501	0.0047	0.0034	31	0.64	221.30	0
221	Acid Soluble Copper (%)	0487	0.0539	0.0018	0.0501	0.0047	0.0034	31	0.80	221.99	0
221	Acid Soluble Copper (%)	0472	0.0550	0.0100	0.0501	0.0047	0.0034	31	1.04	221.30	0
221	Acid Soluble Copper (%)	0482	0.0550	0.0100	0.0501	0.0047	0.0034	31	1.04	221.30	0
221	Acid Soluble Copper (%)	0421	0.0550	0.0100	0.0501	0.0047	0.0034	31	1.04	221.33	0



Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
221	Acid Soluble Copper (%)	0102	0.0600	0.0000	0.0501	0.0047	0.0034	31	2.10	221.30	0
221	Acid Soluble Copper (%)	0423	0.0600	0.0020	0.0501	0.0047	0.0034	31	2.10	221.32	0
221	Acid Soluble Copper (%)	0027	0.0650	0.0060	0.0501	0.0047	0.0034	31	3.17	221.30	0
221	Acid Soluble Copper (%)	0394	0.0930	0.0120	0.0501	0.0047	0.0034	31	9.15	221.30	0
241	Acid Soluble Iron (0.1%)	0501	0.1550*	0.0100	0.4406	0.0490	0.0153	59	-5.83	241.30	0
241	Acid Soluble Iron (0.1%)	0474	0.2400*	0.0400	0.4406	0.0490	0.0153	59	-4.09	241.30	0
241	Acid Soluble Iron (0.1%)	0356	0.2540*	0.0420	0.4406	0.0490	0.0153	59	-3.81	241.00	0
241	Acid Soluble Iron (0.1%)	0042	0.3150*	0.0100	0.4406	0.0490	0.0153	59	-2.56	241.99	0
241	Acid Soluble Iron (0.1%)	0420	0.3270*	0.0060	0.4406	0.0490	0.0153	59	-2.32	241.30	0
241	Acid Soluble Iron (0.1%)	0498	0.3450*	0.0300	0.4406	0.0490	0.0153	59	-1.95	241.00	0
241	Acid Soluble Iron (0.1%)	0023	0.3595*	0.0070	0.4406	0.0490	0.0153	59	-1.65	241.33	0
241	Acid Soluble Iron (0.1%)	0397	0.3820*	0.0100	0.4406	0.0490	0.0153	59	-1.20	241.33	0
241	Acid Soluble Iron (0.1%)	0177	0.3823*	0.0014	0.4406	0.0490	0.0153	59	-1.19	241.33	0
241	Acid Soluble Iron (0.1%)	0481	0.3850*	0.0100	0.4406	0.0490	0.0153	59	-1.13	241.00	0
241	Acid Soluble Iron (0.1%)	0486	0.3900*	0.0000	0.4406	0.0490	0.0153	59	-1.03	241.33	0
241	Acid Soluble Iron (0.1%)	0506	0.3900*	0.0200	0.4406	0.0490	0.0153	59	-1.03	241.99	0
241	Acid Soluble Iron (0.1%)	0090	0.4005	0.0190	0.4406	0.0490	0.0153	59	-0.82	241.30	0
241	Acid Soluble Iron (0.1%)	0035	0.4050	0.0020	0.4406	0.0490	0.0153	59	-0.73	241.30	0
241	Acid Soluble Iron (0.1%)	0472	0.4050	0.0100	0.4406	0.0490	0.0153	59	-0.73	241.30	0
241	Acid Soluble Iron (0.1%)	0117	0.4080	0.0060	0.4406	0.0490	0.0153	59	-0.66	241.33	0
241	Acid Soluble Iron (0.1%)	0095	0.4100	0.0400	0.4406	0.0490	0.0153	59	-0.62	241.30	0
241	Acid Soluble Iron (0.1%)	0371	0.4100	0.0600	0.4406	0.0490	0.0153	59	-0.62	241.30	0
241	Acid Soluble Iron (0.1%)	0423	0.4120	0.0020	0.4406	0.0490	0.0153	59	-0.58	241.32	0
241	Acid Soluble Iron (0.1%)	0389	0.4140	0.0080	0.4406	0.0490	0.0153	59	-0.54	241.99	0
241	Acid Soluble Iron (0.1%)	0102	0.4200	0.0000	0.4406	0.0490	0.0153	59	-0.42	241.30	0
241	Acid Soluble Iron (0.1%)	0394	0.4200	0.0200	0.4406	0.0490	0.0153	59	-0.42	241.30	0
241	Acid Soluble Iron (0.1%)	0169	0.4250	0.0100	0.4406	0.0490	0.0153	59	-0.32	241.00	0
241	Acid Soluble Iron (0.1%)	0368	0.4300	0.0000	0.4406	0.0490	0.0153	59	-0.22	241.30	0
241	Acid Soluble Iron (0.1%)	0041	0.4350	0.0100	0.4406	0.0490	0.0153	59	-0.11	241.30	0
241	Acid Soluble Iron (0.1%)	0402	0.4350	0.0100	0.4406	0.0490	0.0153	59	-0.11	241.30	0
241	Acid Soluble Iron (0.1%)	0354	0.4355	0.0090	0.4406	0.0490	0.0153	59	-0.10	241.30	0
241	Acid Soluble Iron (0.1%)	0043	0.4460	0.0300	0.4406	0.0490	0.0153	59	0.11	241.00	0
241	Acid Soluble Iron (0.1%)	0230	0.4480	0.0020	0.4406	0.0490	0.0153	59	0.15	241.30	0
241	Acid Soluble Iron (0.1%)	0157	0.4495	0.0030	0.4406	0.0490	0.0153	59	0.18	241.30	0
241	Acid Soluble Iron (0.1%)	0114	0.4500	0.0200	0.4406	0.0490	0.0153	59	0.19	241.30	0
241	Acid Soluble Iron (0.1%)	0231	0.4500	0.0000	0.4406	0.0490	0.0153	59	0.19	241.30	0
241	Acid Soluble Iron (0.1%)	0513	0.4550	0.0100	0.4406	0.0490	0.0153	59	0.29	241.00	0
241	Acid Soluble Iron (0.1%)	0291	0.4550	0.0100	0.4406	0.0490	0.0153	59	0.29	241.30	0
241	Acid Soluble Iron (0.1%)	0433	0.4566	0.0047	0.4406	0.0490	0.0153	59	0.33	241.30	0
241	Acid Soluble Iron (0.1%)	0037	0.4595	0.0070	0.4406	0.0490	0.0153	59	0.39	241.33	0
241	Acid Soluble Iron (0.1%)	0258	0.4600	0.0200	0.4406	0.0490	0.0153	59	0.40	241.00	0
241	Acid Soluble Iron (0.1%)	0025	0.4625	0.0210	0.4406	0.0490	0.0153	59	0.45	241.33	0
241	Acid Soluble Iron (0.1%)	0040	0.4700	0.0200	0.4406	0.0490	0.0153	59	0.60	241.00	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				
241	Acid Soluble Iron (0.1%)	0360	0.4700	0.0000	0.4406	0.0490	0.0153	59	0.60	241.30	0
241	Acid Soluble Iron (0.1%)	0421	0.4700	0.0400	0.4406	0.0490	0.0153	59	0.60	241.33	0
241	Acid Soluble Iron (0.1%)	0028	0.4750	0.0300	0.4406	0.0490	0.0153	59	0.70	241.00	0
241	Acid Soluble Iron (0.1%)	0096	0.4750	0.0100	0.4406	0.0490	0.0153	59	0.70	241.30	0
241	Acid Soluble Iron (0.1%)	0136	0.4800	0.0000	0.4406	0.0490	0.0153	59	0.80	241.03	0
241	Acid Soluble Iron (0.1%)	0444	0.4800	0.0000	0.4406	0.0490	0.0153	59	0.80	241.30	0
241	Acid Soluble Iron (0.1%)	0494	0.4815	0.0198	0.4406	0.0490	0.0153	59	0.84	241.30	0
241	Acid Soluble Iron (0.1%)	0034	0.4845	0.0010	0.4406	0.0490	0.0153	59	0.90	241.33	0
241	Acid Soluble Iron (0.1%)	0049	0.4850	0.0100	0.4406	0.0490	0.0153	59	0.91	241.30	0
241	Acid Soluble Iron (0.1%)	0482	0.4850	0.0100	0.4406	0.0490	0.0153	59	0.91	241.30	0
241	Acid Soluble Iron (0.1%)	0220	0.4850	0.0100	0.4406	0.0490	0.0153	59	0.91	241.33	0
241	Acid Soluble Iron (0.1%)	0390	0.4870	0.0420	0.4406	0.0490	0.0153	59	0.95	241.30	0
241	Acid Soluble Iron (0.1%)	0055	0.4890	0.0380	0.4406	0.0490	0.0153	59	0.99	241.30	0
241	Acid Soluble Iron (0.1%)	0485	0.4905	0.0050	0.4406	0.0490	0.0153	59	1.02	241.00	0
241	Acid Soluble Iron (0.1%)	0494	0.4932	0.0413	0.4406	0.0490	0.0153	59	1.07	241.33	0
241	Acid Soluble Iron (0.1%)	0105	0.4960	0.0020	0.4406	0.0490	0.0153	59	1.13	241.00	0
241	Acid Soluble Iron (0.1%)	0324	0.4975	0.0710	0.4406	0.0490	0.0153	59	1.16	241.30	0
241	Acid Soluble Iron (0.1%)	0234	0.5000	0.0000	0.4406	0.0490	0.0153	59	1.21	241.30	0
241	Acid Soluble Iron (0.1%)	0027	0.5055	0.0270	0.4406	0.0490	0.0153	59	1.32	241.30	0
241	Acid Soluble Iron (0.1%)	0029	0.5146	0.0084	0.4406	0.0490	0.0153	59	1.51	241.00	0
241	Acid Soluble Iron (0.1%)	0483	4,880	260.0	0.4406	0.0490	0.0153	59	99577.06	241.30	2
251	Acid Soluble Lead (ppm)	0498	59.55	1.100	125.5	12.19	5.611	21	-5.41	251.00	0
251	Acid Soluble Lead (ppm)	0444	105.5	5.000	125.5	12.19	5.611	21	-1.64	251.30	0
251	Acid Soluble Lead (ppm)	0394	107.0	8.000	125.5	12.19	5.611	21	-1.52	251.30	0
251	Acid Soluble Lead (ppm)	0096	112.0	9.800	125.5	12.19	5.611	21	-1.11	251.30	0
251	Acid Soluble Lead (ppm)	0474	117.6	15.50	125.5	12.19	5.611	21	-0.65	251.30	0
251	Acid Soluble Lead (ppm)	0035	118.0	10.00	125.5	12.19	5.611	21	-0.62	251.30	0
251	Acid Soluble Lead (ppm)	0230	118.5	1.000	125.5	12.19	5.611	21	-0.57	251.30	0
251	Acid Soluble Lead (ppm)	0506	122.5	5.000	125.5	12.19	5.611	21	-0.25	251.99	0
251	Acid Soluble Lead (ppm)	0482	124.5	1.000	125.5	12.19	5.611	21	-0.08	251.30	0
251	Acid Soluble Lead (ppm)	0220	124.5	1.000	125.5	12.19	5.611	21	-0.08	251.34	0
251	Acid Soluble Lead (ppm)	0487	124.8	3.200	125.5	12.19	5.611	21	-0.06	251.99	0
251	Acid Soluble Lead (ppm)	0049	126.7	1.450	125.5	12.19	5.611	21	0.10	251.30	0
251	Acid Soluble Lead (ppm)	0037	128.8	5.900	125.5	12.19	5.611	21	0.27	251.33	0
251	Acid Soluble Lead (ppm)	0095	130.5	7.000	125.5	12.19	5.611	21	0.41	251.30	0
251	Acid Soluble Lead (ppm)	0009	131.6	6.600	125.5	12.19	5.611	21	0.50	251.30	0
251	Acid Soluble Lead (ppm)	0136	133.0	0.0000	125.5	12.19	5.611	21	0.62	251.00	0
251	Acid Soluble Lead (ppm)	0102	136.1	0.1700	125.5	12.19	5.611	21	0.87	251.30	0
251	Acid Soluble Lead (ppm)	0389	138.5	7.000	125.5	12.19	5.611	21	1.07	251.30	0
251	Acid Soluble Lead (ppm)	0481	140.0	8.000	125.5	12.19	5.611	21	1.19	251.00	0
251	Acid Soluble Lead (ppm)	0494	141.7	5.107	125.5	12.19	5.611	21	1.33	251.33	0
251	Acid Soluble Lead (ppm)	0368	142.0	16.00	125.5	12.19	5.611	21	1.35	251.30	0
261	Acid Soluble Manganese (0.05%)	0397	0.0260*	0.0000	0.0362	0.0041	0.0027	56	-2.49	261.35	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 (0.05%)	0481	0.0290	0.0000	0.0362	0.0041	0.0027	56	-1.76	261.11	0
261	Acid Soluble Manganese (0.05%)	0498	0.0295	0.0010	0.0362	0.0041	0.0027	56	-1.64	261.11	0
261	Acid Soluble Manganese (0.05%)	0501	0.0300	0.0000	0.0362	0.0041	0.0027	56	-1.52	261.32	0
261	Acid Soluble Manganese (0.05%)	0474	0.0301	0.0005	0.0362	0.0041	0.0027	56	-1.51	261.30	0
261	Acid Soluble Manganese (0.05%)	0356	0.0309	0.0002	0.0362	0.0041	0.0027	56	-1.30	261.12	0
261	Acid Soluble Manganese (0.05%)	0389	0.0315	0.0003	0.0362	0.0041	0.0027	56	-1.17	261.99	0
261	Acid Soluble Manganese (0.05%)	0230	0.0317	0.0000	0.0362	0.0041	0.0027	56	-1.11	261.31	0
261	Acid Soluble Manganese (0.05%)	0035	0.0325	0.0001	0.0362	0.0041	0.0027	56	-0.92	261.30	0
261	Acid Soluble Manganese (0.05%)	0394	0.0325	0.0010	0.0362	0.0041	0.0027	56	-0.91	261.30	0
261	Acid Soluble Manganese (0.05%)	0420	0.0325	0.0010	0.0362	0.0041	0.0027	56	-0.91	261.30	0
261	Acid Soluble Manganese (0.05%)	0117	0.0326	0.0005	0.0362	0.0041	0.0027	56	-0.90	261.35	0
261	Acid Soluble Manganese (0.05%)	0009	0.0330	0.0000	0.0362	0.0041	0.0027	56	-0.79	261.30	0
261	Acid Soluble Manganese (0.05%)	0023	0.0335	0.0010	0.0362	0.0041	0.0027	56	-0.67	261.35	0
261	Acid Soluble Manganese (0.05%)	0027	0.0340	0.0020	0.0362	0.0041	0.0027	56	-0.55	261.32	0
261	Acid Soluble Manganese (0.05%)	0049	0.0345	0.0010	0.0362	0.0041	0.0027	56	-0.42	261.32	0
261	Acid Soluble Manganese (0.05%)	0444	0.0345	0.0030	0.0362	0.0041	0.0027	56	-0.42	261.32	0
261	Acid Soluble Manganese (0.05%)	0291	0.0350	0.0100	0.0362	0.0041	0.0027	56	-0.30	261.30	0
261	Acid Soluble Manganese (0.05%)	0354	0.0350	0.0020	0.0362	0.0041	0.0027	56	-0.30	261.30	0
261	Acid Soluble Manganese (0.05%)	0472	0.0350	0.0100	0.0362	0.0041	0.0027	56	-0.30	261.30	0
261	Acid Soluble Manganese (0.05%)	0234	0.0350	0.0100	0.0362	0.0041	0.0027	56	-0.30	261.31	0
261	Acid Soluble Manganese (0.05%)	0360	0.0350	0.0000	0.0362	0.0041	0.0027	56	-0.30	261.31	0
261	Acid Soluble Manganese (0.05%)	0055	0.0350	0.0000	0.0362	0.0041	0.0027	56	-0.30	261.32	0
261	Acid Soluble Manganese (0.05%)	0042	0.0350	0.0020	0.0362	0.0041	0.0027	56	-0.30	261.99	0
261	Acid Soluble Manganese (0.05%)	0506	0.0350	0.0100	0.0362	0.0041	0.0027	56	-0.30	261.99	0
261	Acid Soluble Manganese (0.05%)	0258	0.0355	0.0030	0.0362	0.0041	0.0027	56	-0.18	261.00	0
261	Acid Soluble Manganese (0.05%)	0040	0.0355	0.0010	0.0362	0.0041	0.0027	56	-0.18	261.12	0
261	Acid Soluble Manganese (0.05%)	0090	0.0355	0.0050	0.0362	0.0041	0.0027	56	-0.18	261.30	0
261	Acid Soluble Manganese (0.05%)	0513	0.0360	0.0020	0.0362	0.0041	0.0027	56	-0.06	261.11	0
261	Acid Soluble Manganese (0.05%)	0423	0.0365	0.0010	0.0362	0.0041	0.0027	56	0.06	261.34	0
261	Acid Soluble Manganese (0.05%)	0105	0.0365	0.0006	0.0362	0.0041	0.0027	56	0.06	261.12	0
261	Acid Soluble Manganese (0.05%)	0043	0.0370	0.0010	0.0362	0.0041	0.0027	56	0.18	261.00	0
261	Acid Soluble Manganese (0.05%)	0485	0.0371	0.0018	0.0362	0.0041	0.0027	56	0.21	261.12	0
261	Acid Soluble Manganese (0.05%)	0494	0.0374	0.0001	0.0362	0.0041	0.0027	56	0.27	261.32	0
261	Acid Soluble Manganese (0.05%)	0096	0.0375	0.0000	0.0362	0.0041	0.0027	56	0.31	261.30	0
261	Acid Soluble Manganese (0.05%)	0324	0.0375	0.0030	0.0362	0.0041	0.0027	56	0.31	261.32	0
261	Acid Soluble Manganese (0.05%)	0114	0.0375	0.0050	0.0362	0.0041	0.0027	56	0.31	261.30	0
261	Acid Soluble Manganese (0.05%)	0037	0.0385	0.0010	0.0362	0.0041	0.0027	56	0.55	261.35	0
261	Acid Soluble Manganese (0.05%)	0220	0.0385	0.0010	0.0362	0.0041	0.0027	56	0.55	261.35	0
261	Acid Soluble Manganese (0.05%)	0494	0.0390	0.0011	0.0362	0.0041	0.0027	56	0.66	261.35	0
261	Acid Soluble Manganese (0.05%)	0390	0.0392	0.0015	0.0362	0.0041	0.0027	56	0.71	261.30	0
261	Acid Soluble Manganese (0.05%)	0028	0.0400	0.0000	0.0362	0.0041	0.0027	56	0.91	261.12	0
261	Acid Soluble Manganese (0.05%)	0136	0.0400	0.0000	0.0362	0.0041	0.0027	56	0.91	261.15	0
261	Acid Soluble Manganese (0.05%)	0041	0.0400	0.0000	0.0362	0.0041	0.0027	56	0.91	261.30	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				
261	Acid Soluble Manganese (0.05%)	0102	0.0400	0.0000	0.0362	0.0041	0.0027	56	0.91	261.30	0
261	Acid Soluble Manganese (0.05%)	0368	0.0400	0.0000	0.0362	0.0041	0.0027	56	0.91	261.30	0
261	Acid Soluble Manganese (0.05%)	0482	0.0400	0.0000	0.0362	0.0041	0.0027	56	0.91	261.31	0
261	Acid Soluble Manganese (0.05%)	0402	0.0400	0.0000	0.0362	0.0041	0.0027	56	0.91	261.32	0
261	Acid Soluble Manganese (0.05%)	0421	0.0400	0.0000	0.0362	0.0041	0.0027	56	0.91	261.35	0
261	Acid Soluble Manganese (0.05%)	0095	0.0400	0.0000	0.0362	0.0041	0.0027	56	0.91	261.99	0
261	Acid Soluble Manganese (0.05%)	0433	0.0406	0.0015	0.0362	0.0041	0.0027	56	1.05	261.30	0
261	Acid Soluble Manganese (0.05%)	0220	0.0410	0.0000	0.0362	0.0041	0.0027	56	1.16	261.99	0
261	Acid Soluble Manganese (0.05%)	0486	0.0450	0.0100	0.0362	0.0041	0.0027	56	2.13	261.35	0
261	Acid Soluble Manganese (0.05%)	0029	0.0464	0.0030	0.0362	0.0041	0.0027	56	2.47	261.12	0
261	Acid Soluble Manganese (0.05%)	0025	0.3645	0.0310	0.0362	0.0041	0.0027	56	79.90	261.35	0
261	Acid Soluble Manganese (0.05%)	0231	0.3800	0.0200	0.0362	0.0041	0.0027	56	83.67	261.32	0
261	Acid Soluble Manganese (0.05%)	0483	244.5	43.00	0.0362	0.0041	0.0027	56	59502.38	261.30	2
271	Water Soluble Manganese (%)	0444	0.0185	0.0010			0.0010	1			
281	Acid Soluble Mercury (ppm)	0394	0.0825	0.0010	3.696	7.202	0.2558	4	-0.50	281.30	0
281	Acid Soluble Mercury (ppm)	0230	0.1007	0.0087	3.696	7.202	0.2558	4	-0.50	281.00	0
281	Acid Soluble Mercury (ppm)	0117	0.1020	0.0135	3.696	7.202	0.2558	4	-0.50	281.00	0
281	Acid Soluble Mercury (ppm)	0506	14.50	1.000	3.696	7.202	0.2558	4	1.50	281.00	0
289	Acid Soluble Molybdenum (ppm)	0474	12.30	0.4000	16.33	2.861	0.8274	16	-1.41	289.30	0
289	Acid Soluble Molybdenum (ppm)	0096	13.90	0.6000	16.33	2.861	0.8274	16	-0.85	289.30	0
289	Acid Soluble Molybdenum (ppm)	0494	13.99	0.2240	16.33	2.861	0.8274	16	-0.82	289.30	0
289	Acid Soluble Molybdenum (ppm)	0394	14.00	0.0000	16.33	2.861	0.8274	16	-0.82	289.30	0
289	Acid Soluble Molybdenum (ppm)	0230	14.15	1.500	16.33	2.861	0.8274	16	-0.76	289.30	0
289	Acid Soluble Molybdenum (ppm)	0368	14.45	1.300	16.33	2.861	0.8274	16	-0.66	289.30	0
289	Acid Soluble Molybdenum (ppm)	0102	15.41	0.2400	16.33	2.861	0.8274	16	-0.32	289.30	0
289	Acid Soluble Molybdenum (ppm)	0009	15.50	1.200	16.33	2.861	0.8274	16	-0.29	289.30	0
289	Acid Soluble Molybdenum (ppm)	0037	16.76	0.3660	16.33	2.861	0.8274	16	0.15	289.33	0
289	Acid Soluble Molybdenum (ppm)	0494	17.07	1.248	16.33	2.861	0.8274	16	0.26	289.33	0
289	Acid Soluble Molybdenum (ppm)	0220	17.20	0.6000	16.33	2.861	0.8274	16	0.30	289.30	0
289	Acid Soluble Molybdenum (ppm)	0220	17.80	1.600	16.33	2.861	0.8274	16	0.51	289.34	0
289	Acid Soluble Molybdenum (ppm)	0035	18.55	0.5000	16.33	2.861	0.8274	16	0.77	289.30	0
289	Acid Soluble Molybdenum (ppm)	0095	19.00	2.000	16.33	2.861	0.8274	16	0.93	289.30	0
289	Acid Soluble Molybdenum (ppm)	0433	25.37	0.2600	16.33	2.861	0.8274	16	3.16	289.30	0
289	Acid Soluble Molybdenum (ppm)	0117	28.70	1.200	16.33	2.861	0.8274	16	4.32	289.33	0
291	Acid Soluble Nickel (ppm)	0474	8.000	0.0000	12.14	1.607	0.9750	17	-2.57	291.30	0
291	Acid Soluble Nickel (ppm)	0482	10.50	1.400	12.14	1.607	0.9750	17	-1.02	291.30	0
291	Acid Soluble Nickel (ppm)	0394	10.65	1.300	12.14	1.607	0.9750	17	-0.93	291.30	0
291	Acid Soluble Nickel (ppm)	0481	11.00	2.000	12.14	1.607	0.9750	17	-0.71	291.00	0
291	Acid Soluble Nickel (ppm)	0368	11.05	2.300	12.14	1.607	0.9750	17	-0.68	291.30	0
291	Acid Soluble Nickel (ppm)	0230	11.20	1.000	12.14	1.607	0.9750	17	-0.58	291.30	0
291	Acid Soluble Nickel (ppm)	0049	11.28	0.3300	12.14	1.607	0.9750	17	-0.54	291.30	0
291	Acid Soluble Nickel (ppm)	0102	11.77	0.2500	12.14	1.607	0.9750	17	-0.23	291.30	0
291	Acid Soluble Nickel (ppm)	0096	12.00	0.4000	12.14	1.607	0.9750	17	-0.09	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)	0035	12.05	0.9000	12.14	1.607	0.9750	17	-0.05	291.30	0
291	Acid Soluble Nickel (ppm)	0009	12.45	0.7000	12.14	1.607	0.9750	17	0.19	291.30	0
291	Acid Soluble Nickel (ppm)	0037	13.01	1.030	12.14	1.607	0.9750	17	0.54	291.33	0
291	Acid Soluble Nickel (ppm)	0494	13.35	0.7650	12.14	1.607	0.9750	17	0.75	291.33	0
291	Acid Soluble Nickel (ppm)	0506	13.80	0.6000	12.14	1.607	0.9750	17	1.03	291.99	0
291	Acid Soluble Nickel (ppm)	0095	14.00	2.000	12.14	1.607	0.9750	17	1.16	291.30	0
291	Acid Soluble Nickel (ppm)	0136	14.50	1.000	12.14	1.607	0.9750	17	1.47	291.00	0
291	Acid Soluble Nickel (ppm)	0220	16.50	0.6000	12.14	1.607	0.9750	17	2.71	291.34	0
301	Acid Soluble Selenium (ppm)	0230	0.0015	0.0010	0.0676	0.1116	0.0157	3	-0.59	301.30	0
301	Acid Soluble Selenium (ppm)	0394	0.0049	0.0070	0.0676	0.1116	0.0157	3	-0.56	301.30	0
301	Acid Soluble Selenium (ppm)	0025	0.1965	0.0390	0.0676	0.1116	0.0157	3	1.15	301.00	0
301	Acid Soluble Selenium (ppm)	0009	0.0000	0.0000	0.0676	0.1116	0.0157	3	-0.61	301.30	4
311	Sodium (%)	0510	0.5450	0.0100	0.5916	0.0212	0.0203	10	-2.19	311.30	0
311	Sodium (%)	0494	0.5744	0.0478	0.5916	0.0212	0.0203	10	-0.81	311.33	0
311	Sodium (%)	0423	0.5790	0.0040	0.5916	0.0212	0.0203	10	-0.59	311.33	0
311	Sodium (%)	0482	0.5850	0.0300	0.5916	0.0212	0.0203	10	-0.31	311.99	0
311	Sodium (%)	0035	0.5855	0.0590	0.5916	0.0212	0.0203	10	-0.28	311.32	0
311	Sodium (%)	0102	0.5900	0.0000	0.5916	0.0212	0.0203	10	-0.07	311.33	0
311	Sodium (%)	0494	0.5999	0.0061	0.5916	0.0212	0.0203	10	0.39	311.30	0
311	Sodium (%)	0096	0.6100	0.0200	0.5916	0.0212	0.0203	10	0.87	311.99	0
311	Sodium (%)	0474	0.6400	0.0000	0.5916	0.0212	0.0203	10	2.28	311.99	0
311	Sodium (%)	0354	0.6540	0.0260	0.5916	0.0212	0.0203	10	2.94	311.99	0
321	Acid Soluble Zinc (1.5%)	0501	0.8350*	0.0700	1.393	0.0971	0.0521	61	-5.75	321.30	0
321	Acid Soluble Zinc (1.5%)	0498	1.010*	0.0200	1.393	0.0971	0.0521	61	-3.95	321.00	0
321	Acid Soluble Zinc (1.5%)	0117	1.185*	0.0900	1.393	0.0971	0.0521	61	-2.14	321.33	0
321	Acid Soluble Zinc (1.5%)	0394	1.250	0.1000	1.393	0.0971	0.0521	61	-1.47	321.30	0
321	Acid Soluble Zinc (1.5%)	0474	1.260	0.0000	1.393	0.0971	0.0521	61	-1.37	321.30	0
321	Acid Soluble Zinc (1.5%)	0090	1.265	0.0700	1.393	0.0971	0.0521	61	-1.32	321.30	0
321	Acid Soluble Zinc (1.5%)	0420	1.270	0.0400	1.393	0.0971	0.0521	61	-1.27	321.30	0
321	Acid Soluble Zinc (1.5%)	0220	1.290	0.0200	1.393	0.0971	0.0521	61	-1.06	321.33	0
321	Acid Soluble Zinc (1.5%)	0157	1.295	0.0300	1.393	0.0971	0.0521	61	-1.01	321.30	0
321	Acid Soluble Zinc (1.5%)	0043	1.310	0.0400	1.393	0.0971	0.0521	61	-0.86	321.00	0
321	Acid Soluble Zinc (1.5%)	0029	1.311	0.0600	1.393	0.0971	0.0521	61	-0.85	321.00	0
321	Acid Soluble Zinc (1.5%)	0402	1.315	0.0100	1.393	0.0971	0.0521	61	-0.81	321.30	0
321	Acid Soluble Zinc (1.5%)	0136	1.320	0.0000	1.393	0.0971	0.0521	61	-0.75	321.03	0
321	Acid Soluble Zinc (1.5%)	0040	1.325	0.0160	1.393	0.0971	0.0521	61	-0.70	321.00	0
321	Acid Soluble Zinc (1.5%)	0433	1.325	0.0020	1.393	0.0971	0.0521	61	-0.70	321.30	0
321	Acid Soluble Zinc (1.5%)	0444	1.330	0.0200	1.393	0.0971	0.0521	61	-0.65	321.30	0
321	Acid Soluble Zinc (1.5%)	0397	1.333	0.0020	1.393	0.0971	0.0521	61	-0.62	321.33	0
321	Acid Soluble Zinc (1.5%)	0095	1.340	0.0600	1.393	0.0971	0.0521	61	-0.55	321.30	0
321	Acid Soluble Zinc (1.5%)	0307	1.344	0.0060	1.393	0.0971	0.0521	61	-0.51	321.30	0
321	Acid Soluble Zinc (1.5%)	0230	1.345	0.0500	1.393	0.0971	0.0521	61	-0.50	321.30	0
321	Acid Soluble Zinc (1.5%)	0506	1.350	0.1800	1.393	0.0971	0.0521	61	-0.45	321.99	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				
321	Acid Soluble Zinc (1.5%)	0055	1.353	0.0450	1.393	0.0971	0.0521	61	-0.42	321.30	0
321	Acid Soluble Zinc (1.5%)	0258	1.355	0.0700	1.393	0.0971	0.0521	61	-0.39	321.00	0
321	Acid Soluble Zinc (1.5%)	0389	1.360	0.0400	1.393	0.0971	0.0521	61	-0.34	321.99	0
321	Acid Soluble Zinc (1.5%)	0472	1.360	0.0200	1.393	0.0971	0.0521	61	-0.34	321.30	0
321	Acid Soluble Zinc (1.5%)	0041	1.365	0.0300	1.393	0.0971	0.0521	61	-0.29	321.30	0
321	Acid Soluble Zinc (1.5%)	0037	1.367	0.0960	1.393	0.0971	0.0521	61	-0.27	321.33	0
321	Acid Soluble Zinc (1.5%)	0513	1.375	0.0300	1.393	0.0971	0.0521	61	-0.19	321.00	0
321	Acid Soluble Zinc (1.5%)	0114	1.385	0.0500	1.393	0.0971	0.0521	61	-0.08	321.30	0
321	Acid Soluble Zinc (1.5%)	0234	1.385	0.0300	1.393	0.0971	0.0521	61	-0.08	321.30	0
321	Acid Soluble Zinc (1.5%)	0485	1.395	0.0100	1.393	0.0971	0.0521	61	0.02	321.00	0
321	Acid Soluble Zinc (1.5%)	0049	1.395	0.0500	1.393	0.0971	0.0521	61	0.02	321.30	0
321	Acid Soluble Zinc (1.5%)	0482	1.395	0.0300	1.393	0.0971	0.0521	61	0.02	321.30	0
321	Acid Soluble Zinc (1.5%)	0023	1.398	0.0980	1.393	0.0971	0.0521	61	0.05	321.33	0
321	Acid Soluble Zinc (1.5%)	0177	1.400	0.0183	1.393	0.0971	0.0521	61	0.07	321.33	0
321	Acid Soluble Zinc (1.5%)	0292	1.405	0.0100	1.393	0.0971	0.0521	61	0.12	321.30	0
321	Acid Soluble Zinc (1.5%)	0390	1.405	0.0300	1.393	0.0971	0.0521	61	0.12	321.30	0
321	Acid Soluble Zinc (1.5%)	0423	1.405	0.0100	1.393	0.0971	0.0521	61	0.12	321.32	0
321	Acid Soluble Zinc (1.5%)	0324	1.415	0.2100	1.393	0.0971	0.0521	61	0.22	321.30	0
321	Acid Soluble Zinc (1.5%)	0009	1.425	0.0500	1.393	0.0971	0.0521	61	0.33	321.30	0
321	Acid Soluble Zinc (1.5%)	0105	1.430	0.0840	1.393	0.0971	0.0521	61	0.38	321.00	0
321	Acid Soluble Zinc (1.5%)	0368	1.430	0.0400	1.393	0.0971	0.0521	61	0.38	321.30	0
321	Acid Soluble Zinc (1.5%)	0028	1.450	0.0400	1.393	0.0971	0.0521	61	0.58	321.00	0
321	Acid Soluble Zinc (1.5%)	0494	1.451	0.0228	1.393	0.0971	0.0521	61	0.59	321.30	0
321	Acid Soluble Zinc (1.5%)	0042	1.455	0.0500	1.393	0.0971	0.0521	61	0.64	321.99	0
321	Acid Soluble Zinc (1.5%)	0231	1.460	0.0200	1.393	0.0971	0.0521	61	0.69	321.30	0
321	Acid Soluble Zinc (1.5%)	0169	1.465	0.0500	1.393	0.0971	0.0521	61	0.74	321.00	0
321	Acid Soluble Zinc (1.5%)	0421	1.470	0.1000	1.393	0.0971	0.0521	61	0.79	321.33	0
321	Acid Soluble Zinc (1.5%)	0035	1.485	0.0100	1.393	0.0971	0.0521	61	0.95	321.30	0
321	Acid Soluble Zinc (1.5%)	0034	1.498	0.0000	1.393	0.0971	0.0521	61	1.08	321.33	0
321	Acid Soluble Zinc (1.5%)	0428	1.498	0.1306	1.393	0.0971	0.0521	61	1.08	321.00	0
321	Acid Soluble Zinc (1.5%)	0494	1.500	0.0198	1.393	0.0971	0.0521	61	1.10	321.33	0
321	Acid Soluble Zinc (1.5%)	0360	1.500	0.0000	1.393	0.0971	0.0521	61	1.10	321.30	0
321	Acid Soluble Zinc (1.5%)	0486	1.505	0.1300	1.393	0.0971	0.0521	61	1.15	321.33	0
321	Acid Soluble Zinc (1.5%)	0027	1.517	0.2460	1.393	0.0971	0.0521	61	1.27	321.30	0
321	Acid Soluble Zinc (1.5%)	0371	1.520	0.1600	1.393	0.0971	0.0521	61	1.31	321.30	0
321	Acid Soluble Zinc (1.5%)	0291	1.525	0.0300	1.393	0.0971	0.0521	61	1.36	321.30	0
321	Acid Soluble Zinc (1.5%)	0354	1.564	0.0190	1.393	0.0971	0.0521	61	1.75	321.30	0
321	Acid Soluble Zinc (1.5%)	0096	1.598	0.1773	1.393	0.0971	0.0521	61	2.11	321.30	0
321	Acid Soluble Zinc (1.5%)	0102	1.605	0.0300	1.393	0.0971	0.0521	61	2.18	321.30	0
321	Acid Soluble Zinc (1.5%)	0356	1.698	0.0050	1.393	0.0971	0.0521	61	3.13	321.00	0
321	Acid Soluble Zinc (1.5%)	0483	14,650	700.0	1.393	0.0971	0.0521	61	150867.41	321.30	2
325	Water Soluble Zinc (%)	0481	1.035	0.1100			0.1100	1			

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

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				

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 reporting, 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.