

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 190911

Grade 10-45-10

Statistical Summary

Analytes: 34

Labs Reporting: 98

Issue Date : 10/31/2019

Analyte Code	Analyte Sample # 190911	# 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	Analyte IA Ratio	Average Range (R-bar)	Horwitz %RSD
001	Ammoniacal Nitrogen (%)	37	35	8.843	0.3316	8.829		0.2804	0.0592	3.18%		0.0781	2.88%
005	Urea Nitrogen (%)	17	15	1.379	0.2963	1.379		0.3351	0.1081	24.29%		0.0597	3.81%
007	Urea (%)	3	3	2.048	0.6169	2.048		0.6169	0.4452	30.12%		0.1767	3.59%
010	Total Nitrogen (10%)	88	86	10.36	0.4997	10.35	0.5853	0.4322	0.0583	4.18%	1.72	0.2316	2.81%
020	Total Phosphorus as P2O5 (%)	55	54	45.18	2.780	45.32		1.118	0.1901	2.47%		0.5114	2.25%
041	Direct Available Phosphorus as P2O5 (45%)	48	47	45.05	0.9200	45.06	0.9813	0.7172	0.1308	1.59%	1.70	0.3884	2.25%
048	Water Soluble Phosphorus as P2O5 (%)	5	5	44.38	1.423	44.38		1.423	0.7953	3.21%		0.2566	2.26%
050	Soluble Potassium as K2O (10%)	94	92	10.95	0.9782	10.92	0.7415	0.9195	0.1198	8.42%	2.89	0.3290	2.79%
060	Water (Free) (%)	4	4	0.4205	0.2158	0.4205		0.2158	0.1349	51.31%		0.0050	4.56%
101	Acid Soluble Calcium (%)	12	11	0.0264	0.0097	0.0276	0.2014	0.0076	0.0029	27.48%	0.09	0.0024	6.86%
121	Acid Soluble Magnesium (%)	17	16	0.0836	0.1346	0.0482	0.2024	0.0089	0.0028	18.49%	0.10	0.0109	6.31%
131	Water Soluble Magnesium (%)	1		0.0385									
143	Elemental Sulfur (%)	5	5	3.801	0.2508	3.801		0.2508	0.1402	6.60%		0.0326	3.27%
145	Sulfate Sulfur, HCl soluble (%)	2	2	3.935	0.2546								
148	Total Sulfur (%)	14	13	4.053	0.5697	4.032	0.4016	0.6008	0.2083	14.90%	3.49	0.1276	3.24%
149	Sulfur - HNO3 soluble (%)	1		4.135									
151	Acid Soluble Arsenic (ppm)	20	15	15.74	2.463	16.00		1.970	0.6359	12.31%		0.6731	10.54%
165	Acid Soluble Boron (0.02%)	39	37	0.0204	0.0029	0.0203	0.0060	0.0022	0.0004	10.65%	0.83	0.0018	7.19%
171	Water Soluble Boron (%)	10	10	0.0207	0.0050	0.0195		0.0015	0.0006	7.95%		0.0005	7.23%
181	Acid Soluble Cadmium (ppm)	18	8	0.3915	0.3662	0.3698		0.3643	0.1610	98.52%		0.0300	18.58%
191	Acid Soluble Chromium (ppm)	19	15	12.44	1.969	12.44		2.233	0.7207	17.94%		0.7132	10.95%
202	Acid Soluble Cobalt (ppm)	15	7	0.4986	0.2504	0.4986	1.1496	0.2840	0.1342	56.96%	0.58	0.1092	17.76%
221	Acid Soluble Copper (0.05%)	57	56	0.0581	0.0447	0.0488	0.0099	0.0093	0.0015	19.02%	2.19	0.0194	6.30%
241	Acid Soluble Iron (0.1%)	60	58	0.1020	0.0152	0.1018	0.0152	0.0130	0.0021	12.77%	2.00	0.0097	5.64%
251	Acid Soluble Lead (ppm)	18	11	0.9153	1.298	0.6153		0.5187	0.1955	84.30%		0.1101	17.21%
261	Acid Soluble Manganese (0.05%)	51	50	0.0538	0.0079	0.0537	0.0104	0.0062	0.0011	11.52%	1.39	0.0037	6.21%
271	Water Soluble Manganese (%)	3	3	0.0478	0.0103	0.0478		0.0103	0.0074	21.48%		0.0050	6.32%
281	Acid Soluble Mercury (ppm)	9	2	0.0109	0.0129	0.0109		0.0129	0.0114	119.26%		0.0002	31.60%
289	Acid Soluble Molybdenum (5ppm)	26	19	5.563	8.377	3.920	2.1761	2.614	0.7497	66.68%	2.80	0.4095	13.02%
291	Acid Soluble Nickel (ppm)	21	13	1.705	0.5442	1.617		0.3476	0.1205	21.50%		0.2031	14.88%
301	Acid Soluble Selenium (ppm)	11	4	0.3953	0.3650	0.3953		0.3650	0.2281	92.35%		0.1710	18.40%
311	Sodium (%)	6	6	0.0473	0.0104	0.0447	0.0095	0.0051	0.0026	11.36%	1.25	0.0039	6.38%
321	Acid Soluble Zinc (0.05%)	54	53	0.0711	0.1420	0.0488	0.0099	0.0083	0.0014	17.07%	1.96	0.0099	6.30%

Analyte Code	Analyte Sample # 190911	# 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	Analyte IA Ratio	Average Range (R-bar)	Horwitz %RSD
325	Water Soluble Zinc (%)	11	10	0.0520	0.0086	0.0518		0.0043	0.0017	8.36%		0.0017	6.24%

The Analyte IA Ratio = $2.33 * \text{Robust SD} / \text{IA at the Analyte Assigned Value}$. IA ratios of 1 and less indicate participant data dispersion is as good or less than the IA. Red indicates the IA ratio is significantly greater than 1, Orange indicates marginally greater than 1, Green indicates IA ratio is not significantly greater than 1 and Grey indicates < 6 labs reporting.

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Analyte Proficiency From All Labs

Sample # 190911

Grade 10-45-10

Lab Values

Analytes: 34

Labs Reporting: 98

Issue Date : 10/31/2019

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 (%)	0096	7.995	0.0100	8.829	0.2804	0.0781	35	-2.97	001.99	0
001	Ammoniacal Nitrogen (%)	0519	8.490	0.0200	8.829	0.2804	0.0781	35	-1.21	001.99	0
001	Ammoniacal Nitrogen (%)	0560	8.495	0.0300	8.829	0.2804	0.0781	35	-1.19	001.99	0
001	Ammoniacal Nitrogen (%)	0415	8.500	0.0003	8.829	0.2804	0.0781	35	-1.17	001.99	0
001	Ammoniacal Nitrogen (%)	0420	8.520	0.2000	8.829	0.2804	0.0781	35	-1.10	001.99	0
001	Ammoniacal Nitrogen (%)	0535	8.550	0.1000	8.829	0.2804	0.0781	35	-0.99	001.99	0
001	Ammoniacal Nitrogen (%)	0540	8.575	0.0500	8.829	0.2804	0.0781	35	-0.91	001.99	0
001	Ammoniacal Nitrogen (%)	0544	8.610	0.0400	8.829	0.2804	0.0781	35	-0.78	001.99	0
001	Ammoniacal Nitrogen (%)	0394	8.619	0.0580	8.829	0.2804	0.0781	35	-0.75	001.99	0
001	Ammoniacal Nitrogen (%)	0533	8.660	0.1200	8.829	0.2804	0.0781	35	-0.60	001.99	0
001	Ammoniacal Nitrogen (%)	0486	8.675	0.1300	8.829	0.2804	0.0781	35	-0.55	001.10	0
001	Ammoniacal Nitrogen (%)	0559	8.700	0.0400	8.829	0.2804	0.0781	35	-0.46	001.99	0
001	Ammoniacal Nitrogen (%)	0231	8.735	0.0900	8.829	0.2804	0.0781	35	-0.33	001.10	0
001	Ammoniacal Nitrogen (%)	0444	8.775	0.0900	8.829	0.2804	0.0781	35	-0.19	001.10	0
001	Ammoniacal Nitrogen (%)	0510	8.782	0.0140	8.829	0.2804	0.0781	35	-0.17	001.99	0
001	Ammoniacal Nitrogen (%)	0451	8.795	0.1100	8.829	0.2804	0.0781	35	-0.12	001.10	0
001	Ammoniacal Nitrogen (%)	0553	8.795	0.1900	8.829	0.2804	0.0781	35	-0.12	001.99	0
001	Ammoniacal Nitrogen (%)	0527	8.800	0.0800	8.829	0.2804	0.0781	35	-0.10	001.99	0
001	Ammoniacal Nitrogen (%)	0532	8.800	0.0400	8.829	0.2804	0.0781	35	-0.10	001.99	0
001	Ammoniacal Nitrogen (%)	0538	8.820	0.0400	8.829	0.2804	0.0781	35	-0.03	001.99	0
001	Ammoniacal Nitrogen (%)	0546	8.830	0.1200	8.829	0.2804	0.0781	35	0.00	001.99	0
001	Ammoniacal Nitrogen (%)	0389	8.840	0.0200	8.829	0.2804	0.0781	35	0.04	001.10	0
001	Ammoniacal Nitrogen (%)	0526	8.861	0.0218	8.829	0.2804	0.0781	35	0.11	001.10	0
001	Ammoniacal Nitrogen (%)	0481	8.925	0.0900	8.829	0.2804	0.0781	35	0.34	001.10	0
001	Ammoniacal Nitrogen (%)	0476	8.968	0.0268	8.829	0.2804	0.0781	35	0.50	001.99	0
001	Ammoniacal Nitrogen (%)	0522	8.980	0.1600	8.829	0.2804	0.0781	35	0.54	001.99	0
001	Ammoniacal Nitrogen (%)	0027	9.030	0.2130	8.829	0.2804	0.0781	35	0.72	001.99	0
001	Ammoniacal Nitrogen (%)	0255	9.075	0.1300	8.829	0.2804	0.0781	35	0.88	001.99	0
001	Ammoniacal Nitrogen (%)	0549	9.085	0.0300	8.829	0.2804	0.0781	35	0.91	001.99	0
001	Ammoniacal Nitrogen (%)	0220	9.095	0.0900	8.829	0.2804	0.0781	35	0.95	001.99	0
001	Ammoniacal Nitrogen (%)	0545	9.220	0.0400	8.829	0.2804	0.0781	35	1.40	001.99	0
001	Ammoniacal Nitrogen (%)	0405	9.265	0.1300	8.829	0.2804	0.0781	35	1.56	001.99	0
001	Ammoniacal Nitrogen (%)	0550	9.280	0.0200	8.829	0.2804	0.0781	35	1.61	001.99	0
001	Ammoniacal Nitrogen (%)	0117	9.620	0.0200	8.829	0.2804	0.0781	35	2.82	001.10	0
001	Ammoniacal Nitrogen (%)	0524	9.743	0.1699	8.829	0.2804	0.0781	35	3.26	001.99	0
001	Ammoniacal Nitrogen (%)	0520	9.130	0.5800	8.829	0.2804	0.0781	35	1.07	001.99	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				
001	Ammoniacal Nitrogen (%)	0230	5.680	0.1200	8.829	0.2804	0.0781	35	-11.23	001.10	2
005	Urea Nitrogen (%)	0027	0.8700	0.2600	1.379	0.3351	0.0597	15	-1.52	005.99	0
005	Urea Nitrogen (%)	0532	0.9800	0.0800	1.379	0.3351	0.0597	15	-1.19	005.99	0
005	Urea Nitrogen (%)	0538	1.000	0.0800	1.379	0.3351	0.0597	15	-1.13	005.99	0
005	Urea Nitrogen (%)	0389	1.023	0.0150	1.379	0.3351	0.0597	15	-1.06	005.00	0
005	Urea Nitrogen (%)	0549	1.175	0.0500	1.379	0.3351	0.0597	15	-0.61	005.99	0
005	Urea Nitrogen (%)	0405	1.385	0.0300	1.379	0.3351	0.0597	15	0.02	005.00	0
005	Urea Nitrogen (%)	0519	1.470	0.0000	1.379	0.3351	0.0597	15	0.27	005.99	0
005	Urea Nitrogen (%)	0533	1.475	0.0100	1.379	0.3351	0.0597	15	0.29	005.99	0
005	Urea Nitrogen (%)	0560	1.485	0.0100	1.379	0.3351	0.0597	15	0.32	005.99	0
005	Urea Nitrogen (%)	0536	1.505	0.0500	1.379	0.3351	0.0597	15	0.38	005.99	0
005	Urea Nitrogen (%)	0535	1.550	0.1000	1.379	0.3351	0.0597	15	0.51	005.99	0
005	Urea Nitrogen (%)	0545	1.570	0.0200	1.379	0.3351	0.0597	15	0.57	005.99	0
005	Urea Nitrogen (%)	0029	1.635	0.0700	1.379	0.3351	0.0597	15	0.76	005.99	0
005	Urea Nitrogen (%)	0486	1.760	0.0800	1.379	0.3351	0.0597	15	1.14	005.00	0
005	Urea Nitrogen (%)	0559	1.800	0.0400	1.379	0.3351	0.0597	15	1.26	005.99	0
005	Urea Nitrogen (%)	0546	1.240	0.6600	1.379	0.3351	0.0597	15	-0.42	005.99	1
005	Urea Nitrogen (%)	0526	9.988	0.0078	1.379	0.3351	0.0597	15	25.69	005.99	2
007	Urea (%)	0117	1.665	0.0100	2.048	0.6169	0.1767	3	-0.62	007.00	0
007	Urea (%)	0105	1.720	0.1600	2.048	0.6169	0.1767	3	-0.53	007.00	0
007	Urea (%)	0231	2.760	0.3600	2.048	0.6169	0.1767	3	1.15	007.00	0
010	Total Nitrogen (10%)	0035	8.950†	0.1000	10.35	0.4322	0.2316	86	-3.24	010.60	0
010	Total Nitrogen (10%)	0481	9.290†	0.2200	10.35	0.4322	0.2316	86	-2.45	010.99	0
010	Total Nitrogen (10%)	0043	9.470†	0.1200	10.35	0.4322	0.2316	86	-2.04	010.60	0
010	Total Nitrogen (10%)	0481	9.555†	0.0500	10.35	0.4322	0.2316	86	-1.84	010.60	0
010	Total Nitrogen (10%)	0356	9.570†	0.4200	10.35	0.4322	0.2316	86	-1.81	010.60	0
010	Total Nitrogen (10%)	0309	9.630†	0.0000	10.35	0.4322	0.2316	86	-1.67	010.11	0
010	Total Nitrogen (10%)	0544	9.710†	0.0000	10.35	0.4322	0.2316	86	-1.48	010.99	0
010	Total Nitrogen (10%)	0532	9.785	0.0900	10.35	0.4322	0.2316	86	-1.31	010.99	0
010	Total Nitrogen (10%)	0371	9.800	0.0800	10.35	0.4322	0.2316	86	-1.27	010.99	0
010	Total Nitrogen (10%)	0538	9.850	0.1000	10.35	0.4322	0.2316	86	-1.16	010.99	0
010	Total Nitrogen (10%)	0550	9.920	0.0200	10.35	0.4322	0.2316	86	-1.00	010.60	0
010	Total Nitrogen (10%)	0117	9.925	0.1500	10.35	0.4322	0.2316	86	-0.98	010.60	0
010	Total Nitrogen (10%)	0540	9.940	0.0800	10.35	0.4322	0.2316	86	-0.95	010.11	0
010	Total Nitrogen (10%)	0420	9.940	0.1000	10.35	0.4322	0.2316	86	-0.95	010.99	0
010	Total Nitrogen (10%)	0519	9.950	0.0200	10.35	0.4322	0.2316	86	-0.93	010.99	0
010	Total Nitrogen (10%)	0117	9.975	0.4500	10.35	0.4322	0.2316	86	-0.87	010.12	0
010	Total Nitrogen (10%)	0482	10.00	0.2000	10.35	0.4322	0.2316	86	-0.81	010.60	0
010	Total Nitrogen (10%)	0444	10.01	0.0400	10.35	0.4322	0.2316	86	-0.79	010.60	0
010	Total Nitrogen (10%)	0037	10.02	0.2820	10.35	0.4322	0.2316	86	-0.77	010.60	0
010	Total Nitrogen (10%)	0533	10.05	0.0500	10.35	0.4322	0.2316	86	-0.71	010.99	0
010	Total Nitrogen (10%)	0546	10.07	0.7800	10.35	0.4322	0.2316	86	-0.65	010.11	0
010	Total Nitrogen (10%)	0360	10.08	0.1930	10.35	0.4322	0.2316	86	-0.62	010.60	0
010	Total Nitrogen (10%)	0177	10.10	0.0900	10.35	0.4322	0.2316	86	-0.59	010.60	0
010	Total Nitrogen (10%)	0535	10.10	0.2000	10.35	0.4322	0.2316	86	-0.58	010.11	0
010	Total Nitrogen (10%)	0230	10.10	0.4000	10.35	0.4322	0.2316	86	-0.58	010.60	0
010	Total Nitrogen (10%)	0493	10.10	0.1000	10.35	0.4322	0.2316	86	-0.58	010.99	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				
010	Total Nitrogen (10%)	0292	10.13	0.0600	10.35	0.4322	0.2316	86	-0.51	010.60	0
010	Total Nitrogen (10%)	0070	10.15	0.0700	10.35	0.4322	0.2316	86	-0.48	010.60	0
010	Total Nitrogen (10%)	0042	10.15	0.5000	10.35	0.4322	0.2316	86	-0.46	010.60	0
010	Total Nitrogen (10%)	0034	10.16	0.4300	10.35	0.4322	0.2316	86	-0.45	010.60	0
010	Total Nitrogen (10%)	0131	10.18	0.0560	10.35	0.4322	0.2316	86	-0.39	010.60	0
010	Total Nitrogen (10%)	0023	10.20	0.0600	10.35	0.4322	0.2316	86	-0.35	010.60	0
010	Total Nitrogen (10%)	0472	10.20	0.2800	10.35	0.4322	0.2316	86	-0.35	010.60	0
010	Total Nitrogen (10%)	0518	10.20	0.2000	10.35	0.4322	0.2316	86	-0.35	010.99	0
010	Total Nitrogen (10%)	0561	10.22	0.1100	10.35	0.4322	0.2316	86	-0.31	010.60	0
010	Total Nitrogen (10%)	0522	10.22	0.0700	10.35	0.4322	0.2316	86	-0.31	010.99	0
010	Total Nitrogen (10%)	0389	10.23	0.0500	10.35	0.4322	0.2316	86	-0.29	010.60	0
010	Total Nitrogen (10%)	0255	10.24	1.015	10.35	0.4322	0.2316	86	-0.26	010.60	0
010	Total Nitrogen (10%)	0543	10.27	0.2330	10.35	0.4322	0.2316	86	-0.19	010.60	0
010	Total Nitrogen (10%)	0106	10.27	0.4200	10.35	0.4322	0.2316	86	-0.19	010.60	0
010	Total Nitrogen (10%)	0451	10.28	0.2400	10.35	0.4322	0.2316	86	-0.16	010.60	0
010	Total Nitrogen (10%)	0055	10.28	0.0200	10.35	0.4322	0.2316	86	-0.15	010.60	0
010	Total Nitrogen (10%)	0527	10.29	0.5180	10.35	0.4322	0.2316	86	-0.14	010.60	0
010	Total Nitrogen (10%)	0325	10.35	0.5000	10.35	0.4322	0.2316	86	0.00	010.60	0
010	Total Nitrogen (10%)	0553	10.35	0.5000	10.35	0.4322	0.2316	86	0.00	010.99	0
010	Total Nitrogen (10%)	0234	10.35	0.1000	10.35	0.4322	0.2316	86	0.00	010.60	0
010	Total Nitrogen (10%)	0029	10.40	0.0700	10.35	0.4322	0.2316	86	0.10	010.60	0
010	Total Nitrogen (10%)	0073	10.40	0.4400	10.35	0.4322	0.2316	86	0.11	010.60	0
010	Total Nitrogen (10%)	0526	10.42	0.1341	10.35	0.4322	0.2316	86	0.16	010.17	0
010	Total Nitrogen (10%)	0547	10.44	0.0000	10.35	0.4322	0.2316	86	0.21	010.60	0
010	Total Nitrogen (10%)	0525	10.46	0.2500	10.35	0.4322	0.2316	86	0.24	010.60	0
010	Total Nitrogen (10%)	0095	10.49	0.1100	10.35	0.4322	0.2316	86	0.31	010.60	0
010	Total Nitrogen (10%)	0510	10.49	0.0717	10.35	0.4322	0.2316	86	0.33	010.11	0
010	Total Nitrogen (10%)	0220	10.50	0.0500	10.35	0.4322	0.2316	86	0.33	010.11	0
010	Total Nitrogen (10%)	0486	10.50	0.0800	10.35	0.4322	0.2316	86	0.35	010.60	0
010	Total Nitrogen (10%)	0513	10.52	0.0800	10.35	0.4322	0.2316	86	0.39	010.99	0
010	Total Nitrogen (10%)	0105	10.54	0.2100	10.35	0.4322	0.2316	86	0.43	010.11	0
010	Total Nitrogen (10%)	0040	10.55	0.5000	10.35	0.4322	0.2316	86	0.46	010.60	0
010	Total Nitrogen (10%)	0231	10.58	0.1900	10.35	0.4322	0.2316	86	0.52	010.60	0
010	Total Nitrogen (10%)	0537	10.58	0.3000	10.35	0.4322	0.2316	86	0.53	010.99	0
010	Total Nitrogen (10%)	0324	10.60	0.2000	10.35	0.4322	0.2316	86	0.58	010.60	0
010	Total Nitrogen (10%)	0405	10.60	0.0200	10.35	0.4322	0.2316	86	0.58	010.60	0
010	Total Nitrogen (10%)	0523	10.60	0.0000	10.35	0.4322	0.2316	86	0.58	010.60	0
010	Total Nitrogen (10%)	0524	10.61	0.4544	10.35	0.4322	0.2316	86	0.59	010.99	0
010	Total Nitrogen (10%)	0542	10.63	0.2140	10.35	0.4322	0.2316	86	0.64	010.60	0
010	Total Nitrogen (10%)	0476	10.63	0.2548	10.35	0.4322	0.2316	86	0.64	010.99	0
010	Total Nitrogen (10%)	0390	10.67	0.0600	10.35	0.4322	0.2316	86	0.74	010.60	0
010	Total Nitrogen (10%)	0534	10.68	0.0200	10.35	0.4322	0.2316	86	0.76	010.60	0
010	Total Nitrogen (10%)	0169	10.70	0.1600	10.35	0.4322	0.2316	86	0.81	010.60	0
010	Total Nitrogen (10%)	0520	10.72	0.9000	10.35	0.4322	0.2316	86	0.85	010.99	0
010	Total Nitrogen (10%)	0027	10.75	0.1000	10.35	0.4322	0.2316	86	0.92	010.60	0
010	Total Nitrogen (10%)	0421	10.76	0.2800	10.35	0.4322	0.2316	86	0.95	010.60	0
010	Total Nitrogen (10%)	0416	10.77	0.0200	10.35	0.4322	0.2316	86	0.97	010.11	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010	Total Nitrogen (10%)	0545	10.79	0.0200	10.35	0.4322	0.2316	86	1.02	010.99	0
010	Total Nitrogen (10%)	0516	10.85	0.1000	10.35	0.4322	0.2316	86	1.16	010.60	0
010	Total Nitrogen (10%)	0102	10.87	0.0300	10.35	0.4322	0.2316	86	1.19	010.60	0
010	Total Nitrogen (10%)	0555	10.87	0.9500	10.35	0.4322	0.2316	86	1.19	010.60	0
010	Total Nitrogen (10%)	0485	10.91	0.6230	10.35	0.4322	0.2316	86	1.29	010.60	0
010	Total Nitrogen (10%)	0096	11.00‡	0.5300	10.35	0.4322	0.2316	86	1.49	010.60	0
010	Total Nitrogen (10%)	0559	11.08‡	0.0500	10.35	0.4322	0.2316	86	1.68	010.99	0
010	Total Nitrogen (10%)	0443	11.09‡	0.0200	10.35	0.4322	0.2316	86	1.71	010.60	0
010	Total Nitrogen (10%)	0450	11.10‡	0.2000	10.35	0.4322	0.2316	86	1.73	010.60	0
010	Total Nitrogen (10%)	0498	11.55‡	0.7000	10.35	0.4322	0.2316	86	2.78	010.12	0
010	Total Nitrogen (10%)	0420	11.64‡	0.4300	10.35	0.4322	0.2316	86	2.97	010.60	0
010	Total Nitrogen (10%)	0377	11.75‡	0.4400	10.35	0.4322	0.2316	86	3.24	010.60	0
010	Total Nitrogen (10%)	0025	11.79‡	0.8900	10.35	0.4322	0.2316	86	3.32	010.60	0
010	Total Nitrogen (10%)	0086	10.62	1.385	10.35	0.4322	0.2316	86	0.62	010.60	1
010	Total Nitrogen (10%)	0422	17.45‡	0.1000	10.35	0.4322	0.2316	86	16.43	010.60	2
020	Total Phosphorus as P2O5 (%)	0543	33.69	3.160	45.32	1.118	0.5114	54	-10.41	020.50	0
020	Total Phosphorus as P2O5 (%)	0451	37.76	0.2600	45.32	1.118	0.5114	54	-6.76	020.50	0
020	Total Phosphorus as P2O5 (%)	0552	40.91	0.5700	45.32	1.118	0.5114	54	-3.95	020.50	0
020	Total Phosphorus as P2O5 (%)	0390	41.40	1.530	45.32	1.118	0.5114	54	-3.51	020.50	0
020	Total Phosphorus as P2O5 (%)	0472	42.03	0.1400	45.32	1.118	0.5114	54	-2.94	020.50	0
020	Total Phosphorus as P2O5 (%)	0520	43.31	0.3100	45.32	1.118	0.5114	54	-1.80	020.99	0
020	Total Phosphorus as P2O5 (%)	0516	43.43	0.4000	45.32	1.118	0.5114	54	-1.69	020.50	0
020	Total Phosphorus as P2O5 (%)	0524	43.70	0.7254	45.32	1.118	0.5114	54	-1.45	020.50	0
020	Total Phosphorus as P2O5 (%)	0309	44.04	0.0100	45.32	1.118	0.5114	54	-1.15	020.20	0
020	Total Phosphorus as P2O5 (%)	0230	44.25	0.1000	45.32	1.118	0.5114	54	-0.96	020.20	0
020	Total Phosphorus as P2O5 (%)	0522	44.30	0.1200	45.32	1.118	0.5114	54	-0.91	020.20	0
020	Total Phosphorus as P2O5 (%)	0525	44.60	0.6300	45.32	1.118	0.5114	54	-0.65	020.50	0
020	Total Phosphorus as P2O5 (%)	0527	44.93	0.1660	45.32	1.118	0.5114	54	-0.35	020.50	0
020	Total Phosphorus as P2O5 (%)	0231	45.02	0.0000	45.32	1.118	0.5114	54	-0.27	020.20	0
020	Total Phosphorus as P2O5 (%)	0510	45.04	0.0557	45.32	1.118	0.5114	54	-0.25	020.20	0
020	Total Phosphorus as P2O5 (%)	0561	45.05	0.0600	45.32	1.118	0.5114	54	-0.24	020.20	0
020	Total Phosphorus as P2O5 (%)	0523	45.10	1.600	45.32	1.118	0.5114	54	-0.20	020.50	0
020	Total Phosphorus as P2O5 (%)	0405	45.11	0.1700	45.32	1.118	0.5114	54	-0.19	020.20	0
020	Total Phosphorus as P2O5 (%)	0433	45.13	0.0200	45.32	1.118	0.5114	54	-0.17	020.50	0
020	Total Phosphorus as P2O5 (%)	0559	45.15	0.0400	45.32	1.118	0.5114	54	-0.15	020.99	0
020	Total Phosphorus as P2O5 (%)	0027	45.20	0.0600	45.32	1.118	0.5114	54	-0.11	020.20	0
020	Total Phosphorus as P2O5 (%)	0292	45.21	0.0800	45.32	1.118	0.5114	54	-0.10	020.20	0
020	Total Phosphorus as P2O5 (%)	0513	45.24	0.0300	45.32	1.118	0.5114	54	-0.08	020.99	0
020	Total Phosphorus as P2O5 (%)	0546	45.24	0.8330	45.32	1.118	0.5114	54	-0.07	020.50	0
020	Total Phosphorus as P2O5 (%)	0555	45.25	0.6900	45.32	1.118	0.5114	54	-0.07	020.50	0
020	Total Phosphorus as P2O5 (%)	0035	45.25	0.1000	45.32	1.118	0.5114	54	-0.06	020.40	0
020	Total Phosphorus as P2O5 (%)	0420	45.32	0.7700	45.32	1.118	0.5114	54	-0.01	020.20	0
020	Total Phosphorus as P2O5 (%)	0394	45.35	0.0700	45.32	1.118	0.5114	54	0.02	020.20	0
020	Total Phosphorus as P2O5 (%)	0450	45.37	0.0400	45.32	1.118	0.5114	54	0.04	020.20	0
020	Total Phosphorus as P2O5 (%)	0476	45.39	0.0946	45.32	1.118	0.5114	54	0.07	020.20	0
020	Total Phosphorus as P2O5 (%)	0371	45.40	0.4000	45.32	1.118	0.5114	54	0.07	020.20	0
020	Total Phosphorus as P2O5 (%)	0444	45.42	0.0700	45.32	1.118	0.5114	54	0.08	020.50	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
020	Total Phosphorus as P2O5 (%)	0049	45.50	0.6700	45.32	1.118	0.5114	54	0.16	020.10	0
020	Total Phosphorus as P2O5 (%)	0493	45.50	0.2000	45.32	1.118	0.5114	54	0.16	020.10	0
020	Total Phosphorus as P2O5 (%)	0096	45.52	0.0700	45.32	1.118	0.5114	54	0.17	020.40	0
020	Total Phosphorus as P2O5 (%)	0547	45.60	0.4000	45.32	1.118	0.5114	54	0.25	020.50	0
020	Total Phosphorus as P2O5 (%)	0157	45.80	0.4000	45.32	1.118	0.5114	54	0.43	020.10	0
020	Total Phosphorus as P2O5 (%)	0482	45.80	1.600	45.32	1.118	0.5114	54	0.43	020.50	0
020	Total Phosphorus as P2O5 (%)	0444	45.84	0.1600	45.32	1.118	0.5114	54	0.46	020.10	0
020	Total Phosphorus as P2O5 (%)	0521	45.91	0.0000	45.32	1.118	0.5114	54	0.53	020.50	0
020	Total Phosphorus as P2O5 (%)	0416	45.93	0.0000	45.32	1.118	0.5114	54	0.54	020.20	0
020	Total Phosphorus as P2O5 (%)	0534	45.94	0.0600	45.32	1.118	0.5114	54	0.55	020.20	0
020	Total Phosphorus as P2O5 (%)	0356	46.01	0.2900	45.32	1.118	0.5114	54	0.61	020.20	0
020	Total Phosphorus as P2O5 (%)	0324	46.10	2.200	45.32	1.118	0.5114	54	0.70	020.20	0
020	Total Phosphorus as P2O5 (%)	0550	46.14	0.0000	45.32	1.118	0.5114	54	0.73	020.20	0
020	Total Phosphorus as P2O5 (%)	0169	46.33	0.1000	45.32	1.118	0.5114	54	0.90	020.20	0
020	Total Phosphorus as P2O5 (%)	0481	46.40	0.2000	45.32	1.118	0.5114	54	0.97	020.20	0
020	Total Phosphorus as P2O5 (%)	0255	46.50	2.221	45.32	1.118	0.5114	54	1.05	020.50	0
020	Total Phosphorus as P2O5 (%)	0042	47.00	1.800	45.32	1.118	0.5114	54	1.50	020.50	0
020	Total Phosphorus as P2O5 (%)	0234	47.10	0.4000	45.32	1.118	0.5114	54	1.59	020.50	0
020	Total Phosphorus as P2O5 (%)	0515	47.94	0.5413	45.32	1.118	0.5114	54	2.34	020.99	0
020	Total Phosphorus as P2O5 (%)	0422	49.38	2.760	45.32	1.118	0.5114	54	3.63	020.50	0
020	Total Phosphorus as P2O5 (%)	0542	50.91	0.0900	45.32	1.118	0.5114	54	5.00	020.50	0
020	Total Phosphorus as P2O5 (%)	0443	54.79	0.1500	45.32	1.118	0.5114	54	8.47	020.99	0
020	Total Phosphorus as P2O5 (%)	0389	25.21	29.87	45.32	1.118	0.5114	54	-18.00	020.50	1
041	Direct Available Phosphorus as P2O5 (45%)	0095	42.55†	0.6100	45.06	0.7172	0.3884	47	-3.51	041.40	0
041	Direct Available Phosphorus as P2O5 (45%)	0041	43.30†	1.400	45.06	0.7172	0.3884	47	-2.46	041.10	0
041	Direct Available Phosphorus as P2O5 (45%)	0136	43.40†	0.4000	45.06	0.7172	0.3884	47	-2.32	041.51	0
041	Direct Available Phosphorus as P2O5 (45%)	0027	43.45†	0.3300	45.06	0.7172	0.3884	47	-2.26	041.20	0
041	Direct Available Phosphorus as P2O5 (45%)	0486	43.88†	0.0100	45.06	0.7172	0.3884	47	-1.66	041.51	0
041	Direct Available Phosphorus as P2O5 (45%)	0117	43.90†	1.600	45.06	0.7172	0.3884	47	-1.62	041.11	0
041	Direct Available Phosphorus as P2O5 (45%)	0231	44.15	0.3000	45.06	0.7172	0.3884	47	-1.27	041.21	0
041	Direct Available Phosphorus as P2O5 (45%)	0131	44.41	0.5420	45.06	0.7172	0.3884	47	-0.92	041.50	0
041	Direct Available Phosphorus as P2O5 (45%)	0106	44.55	1.280	45.06	0.7172	0.3884	47	-0.72	041.21	0
041	Direct Available Phosphorus as P2O5 (45%)	0377	44.58	0.1100	45.06	0.7172	0.3884	47	-0.68	041.51	0
041	Direct Available Phosphorus as P2O5 (45%)	0522	44.65	0.3200	45.06	0.7172	0.3884	47	-0.58	041.21	0
041	Direct Available Phosphorus as P2O5 (45%)	0544	44.66	0.0700	45.06	0.7172	0.3884	47	-0.57	041.21	0
041	Direct Available Phosphorus as P2O5 (45%)	0532	44.68	0.2400	45.06	0.7172	0.3884	47	-0.54	041.99	0
041	Direct Available Phosphorus as P2O5 (45%)	0325	44.75	0.7000	45.06	0.7172	0.3884	47	-0.44	041.50	0
041	Direct Available Phosphorus as P2O5 (45%)	0538	44.76	0.3200	45.06	0.7172	0.3884	47	-0.42	041.99	0
041	Direct Available Phosphorus as P2O5 (45%)	0086	44.80	0.0417	45.06	0.7172	0.3884	47	-0.37	041.10	0
041	Direct Available Phosphorus as P2O5 (45%)	0102	44.80	0.0000	45.06	0.7172	0.3884	47	-0.37	041.10	0
041	Direct Available Phosphorus as P2O5 (45%)	0025	44.90	0.4000	45.06	0.7172	0.3884	47	-0.23	041.51	0
041	Direct Available Phosphorus as P2O5 (45%)	0519	44.91	0.0200	45.06	0.7172	0.3884	47	-0.21	041.99	0
041	Direct Available Phosphorus as P2O5 (45%)	0394	44.94	0.2430	45.06	0.7172	0.3884	47	-0.17	041.21	0
041	Direct Available Phosphorus as P2O5 (45%)	0472	44.95	0.0000	45.06	0.7172	0.3884	47	-0.16	041.21	0
041	Direct Available Phosphorus as P2O5 (45%)	0040	45.00	0.4000	45.06	0.7172	0.3884	47	-0.09	041.10	0
041	Direct Available Phosphorus as P2O5 (45%)	0560	45.07	0.0600	45.06	0.7172	0.3884	47	0.01	041.99	0
041	Direct Available Phosphorus as P2O5 (45%)	0537	45.09	1.400	45.06	0.7172	0.3884	47	0.04	041.99	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				
041	Direct Available Phosphorus as P2O5 (45%)	0553	45.15	0.7000	45.06	0.7172	0.3884	47	0.12	041.20	0
041	Direct Available Phosphorus as P2O5 (45%)	0405	45.16	0.0300	45.06	0.7172	0.3884	47	0.13	041.99	0
041	Direct Available Phosphorus as P2O5 (45%)	0518	45.18	0.2500	45.06	0.7172	0.3884	47	0.16	041.99	0
041	Direct Available Phosphorus as P2O5 (45%)	0540	45.18	0.0500	45.06	0.7172	0.3884	47	0.16	041.99	0
041	Direct Available Phosphorus as P2O5 (45%)	0535	45.25	0.1000	45.06	0.7172	0.3884	47	0.26	041.99	0
041	Direct Available Phosphorus as P2O5 (45%)	0513	45.26	0.0600	45.06	0.7172	0.3884	47	0.27	041.11	0
041	Direct Available Phosphorus as P2O5 (45%)	0177	45.32	0.0584	45.06	0.7172	0.3884	47	0.36	041.10	0
041	Direct Available Phosphorus as P2O5 (45%)	0177	45.34	0.1101	45.06	0.7172	0.3884	47	0.39	041.21	0
041	Direct Available Phosphorus as P2O5 (45%)	0117	45.40	0.2266	45.06	0.7172	0.3884	47	0.47	041.51	0
041	Direct Available Phosphorus as P2O5 (45%)	0023	45.45	0.7000	45.06	0.7172	0.3884	47	0.54	041.51	0
041	Direct Available Phosphorus as P2O5 (45%)	0485	45.46	0.3774	45.06	0.7172	0.3884	47	0.56	041.11	0
041	Direct Available Phosphorus as P2O5 (45%)	0493	45.50	0.1000	45.06	0.7172	0.3884	47	0.61	041.11	0
041	Direct Available Phosphorus as P2O5 (45%)	0055	45.63	0.1500	45.06	0.7172	0.3884	47	0.78	041.21	0
041	Direct Available Phosphorus as P2O5 (45%)	0545	45.68	0.0500	45.06	0.7172	0.3884	47	0.85	041.99	0
041	Direct Available Phosphorus as P2O5 (45%)	0037	45.74	1.057	45.06	0.7172	0.3884	47	0.94	041.40	0
041	Direct Available Phosphorus as P2O5 (45%)	0549	45.75	0.1000	45.06	0.7172	0.3884	47	0.96	041.99	0
041	Direct Available Phosphorus as P2O5 (45%)	0073	45.77	0.8500	45.06	0.7172	0.3884	47	0.98	041.11	0
041	Direct Available Phosphorus as P2O5 (45%)	0029	45.83	1.040	45.06	0.7172	0.3884	47	1.07	041.40	0
041	Direct Available Phosphorus as P2O5 (45%)	0055	45.89	0.0200	45.06	0.7172	0.3884	47	1.15	041.11	0
041	Direct Available Phosphorus as P2O5 (45%)	0360	46.10‡	0.8200	45.06	0.7172	0.3884	47	1.44	041.51	0
041	Direct Available Phosphorus as P2O5 (45%)	0421	46.35‡	0.1000	45.06	0.7172	0.3884	47	1.79	041.50	0
041	Direct Available Phosphorus as P2O5 (45%)	0526	47.47‡	0.0000	45.06	0.7172	0.3884	47	3.35	041.21	0
041	Direct Available Phosphorus as P2O5 (45%)	0034	47.49‡	0.5074	45.06	0.7172	0.3884	47	3.39	041.40	0
041	Direct Available Phosphorus as P2O5 (45%)	0043	45.02	2.280	45.06	0.7172	0.3884	47	-0.06	041.51	1
048	Water Soluble Phosphorus as P2O5 (%)	0420	42.10	0.5000	44.38	1.423	0.2566	5	-1.60	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0444	44.31	0.2200	44.38	1.423	0.2566	5	-0.05	048.50	0
048	Water Soluble Phosphorus as P2O5 (%)	0444	44.45	0.1300	44.38	1.423	0.2566	5	0.04	048.10	0
048	Water Soluble Phosphorus as P2O5 (%)	0513	45.17	0.0200	44.38	1.423	0.2566	5	0.55	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0394	45.88	0.4130	44.38	1.423	0.2566	5	1.06	048.20	0
050	Soluble Potassium as K2O (10%)	0543	8.136†	1.676	10.92	0.9195	0.3290	92	-3.03	050.52	0
050	Soluble Potassium as K2O (10%)	0443	9.065†	0.2700	10.92	0.9195	0.3290	92	-2.02	050.60	0
050	Soluble Potassium as K2O (10%)	0521	9.247†	0.0000	10.92	0.9195	0.3290	92	-1.82	050.99	0
050	Soluble Potassium as K2O (10%)	0481	9.550†	0.0800	10.92	0.9195	0.3290	92	-1.49	050.99	0
050	Soluble Potassium as K2O (10%)	0420	9.794†	0.8120	10.92	0.9195	0.3290	92	-1.23	050.50	0
050	Soluble Potassium as K2O (10%)	0555	9.800†	0.0400	10.92	0.9195	0.3290	92	-1.22	050.51	0
050	Soluble Potassium as K2O (10%)	0037	9.855†	0.4930	10.92	0.9195	0.3290	92	-1.16	050.62	0
050	Soluble Potassium as K2O (10%)	0519	9.930†	0.0200	10.92	0.9195	0.3290	92	-1.08	050.99	0
050	Soluble Potassium as K2O (10%)	0536	9.950†	0.1000	10.92	0.9195	0.3290	92	-1.06	050.99	0
050	Soluble Potassium as K2O (10%)	0526	9.980†	0.0131	10.92	0.9195	0.3290	92	-1.03	050.60	0
050	Soluble Potassium as K2O (10%)	0549	9.990†	0.0200	10.92	0.9195	0.3290	92	-1.01	050.99	0
050	Soluble Potassium as K2O (10%)	0523	9.995†	0.1100	10.92	0.9195	0.3290	92	-1.01	050.99	0
050	Soluble Potassium as K2O (10%)	0472	10.07†	0.0000	10.92	0.9195	0.3290	92	-0.93	050.31	0
050	Soluble Potassium as K2O (10%)	0560	10.08†	0.2400	10.92	0.9195	0.3290	92	-0.92	050.99	0
050	Soluble Potassium as K2O (10%)	0325	10.10†	1.000	10.92	0.9195	0.3290	92	-0.89	050.99	0
050	Soluble Potassium as K2O (10%)	0544	10.13†	0.1000	10.92	0.9195	0.3290	92	-0.86	050.00	0
050	Soluble Potassium as K2O (10%)	0049	10.16†	0.9000	10.92	0.9195	0.3290	92	-0.83	050.00	0
050	Soluble Potassium as K2O (10%)	0533	10.16†	0.2400	10.92	0.9195	0.3290	92	-0.83	050.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
050	Soluble Potassium as K2O (10%)	0510	10.18	0.0134	10.92	0.9195	0.3290	92	-0.80	050.60	0
050	Soluble Potassium as K2O (10%)	0493	10.20	0.1000	10.92	0.9195	0.3290	92	-0.79	050.99	0
050	Soluble Potassium as K2O (10%)	0540	10.23	0.0500	10.92	0.9195	0.3290	92	-0.76	050.99	0
050	Soluble Potassium as K2O (10%)	0476	10.23	0.1857	10.92	0.9195	0.3290	92	-0.75	050.60	0
050	Soluble Potassium as K2O (10%)	0535	10.25	0.1000	10.92	0.9195	0.3290	92	-0.73	050.61	0
050	Soluble Potassium as K2O (10%)	0535	10.25	0.1000	10.92	0.9195	0.3290	92	-0.73	050.62	0
050	Soluble Potassium as K2O (10%)	0535	10.25	0.1000	10.92	0.9195	0.3290	92	-0.73	050.99	0
050	Soluble Potassium as K2O (10%)	0553	10.25	0.3000	10.92	0.9195	0.3290	92	-0.73	050.99	0
050	Soluble Potassium as K2O (10%)	0309	10.26	0.0900	10.92	0.9195	0.3290	92	-0.73	050.30	0
050	Soluble Potassium as K2O (10%)	0485	10.27	0.4540	10.92	0.9195	0.3290	92	-0.72	050.52	0
050	Soluble Potassium as K2O (10%)	0390	10.34	0.0500	10.92	0.9195	0.3290	92	-0.64	050.50	0
050	Soluble Potassium as K2O (10%)	0421	10.35	0.1000	10.92	0.9195	0.3290	92	-0.62	050.99	0
050	Soluble Potassium as K2O (10%)	0518	10.35	0.1000	10.92	0.9195	0.3290	92	-0.62	050.99	0
050	Soluble Potassium as K2O (10%)	0486	10.37	0.3400	10.92	0.9195	0.3290	92	-0.60	050.52	0
050	Soluble Potassium as K2O (10%)	0525	10.39	0.3000	10.92	0.9195	0.3290	92	-0.58	050.99	0
050	Soluble Potassium as K2O (10%)	0515	10.41	0.3566	10.92	0.9195	0.3290	92	-0.56	050.99	0
050	Soluble Potassium as K2O (10%)	0545	10.46	0.0400	10.92	0.9195	0.3290	92	-0.50	050.99	0
050	Soluble Potassium as K2O (10%)	0538	10.55	0.5000	10.92	0.9195	0.3290	92	-0.41	050.99	0
050	Soluble Potassium as K2O (10%)	0055	10.58	0.0400	10.92	0.9195	0.3290	92	-0.37	050.00	0
050	Soluble Potassium as K2O (10%)	0546	10.71	0.7850	10.92	0.9195	0.3290	92	-0.24	050.99	0
050	Soluble Potassium as K2O (10%)	0394	10.72	0.1950	10.92	0.9195	0.3290	92	-0.22	050.99	0
050	Soluble Potassium as K2O (10%)	0552	10.73	1.160	10.92	0.9195	0.3290	92	-0.21	050.99	0
050	Soluble Potassium as K2O (10%)	0102	10.80	0.0000	10.92	0.9195	0.3290	92	-0.13	050.00	0
050	Soluble Potassium as K2O (10%)	0040	10.80	0.2000	10.92	0.9195	0.3290	92	-0.13	050.30	0
050	Soluble Potassium as K2O (10%)	0498	10.80	0.2000	10.92	0.9195	0.3290	92	-0.13	050.31	0
050	Soluble Potassium as K2O (10%)	0513	10.86	0.1400	10.92	0.9195	0.3290	92	-0.07	050.62	0
050	Soluble Potassium as K2O (10%)	0537	10.87	0.4500	10.92	0.9195	0.3290	92	-0.06	050.99	0
050	Soluble Potassium as K2O (10%)	0450	10.88	0.5100	10.92	0.9195	0.3290	92	-0.05	050.99	0
050	Soluble Potassium as K2O (10%)	0389	10.88	0.1350	10.92	0.9195	0.3290	92	-0.05	050.99	0
050	Soluble Potassium as K2O (10%)	0532	10.89	1.170	10.92	0.9195	0.3290	92	-0.04	050.99	0
050	Soluble Potassium as K2O (10%)	0177	10.90	0.2046	10.92	0.9195	0.3290	92	-0.02	050.99	0
050	Soluble Potassium as K2O (10%)	0520	10.98	0.8500	10.92	0.9195	0.3290	92	0.06	050.60	0
050	Soluble Potassium as K2O (10%)	0234	11.00	1.000	10.92	0.9195	0.3290	92	0.08	050.99	0
050	Soluble Potassium as K2O (10%)	0559	11.00	0.0600	10.92	0.9195	0.3290	92	0.08	050.99	0
050	Soluble Potassium as K2O (10%)	0360	11.06	0.5300	10.92	0.9195	0.3290	92	0.14	050.52	0
050	Soluble Potassium as K2O (10%)	0117	11.07	0.9690	10.92	0.9195	0.3290	92	0.16	050.50	0
050	Soluble Potassium as K2O (10%)	0220	11.10	0.0000	10.92	0.9195	0.3290	92	0.19	050.00	0
050	Soluble Potassium as K2O (10%)	0444	11.10	0.2000	10.92	0.9195	0.3290	92	0.19	050.50	0
050	Soluble Potassium as K2O (10%)	0070	11.10	0.2000	10.92	0.9195	0.3290	92	0.19	050.51	0
050	Soluble Potassium as K2O (10%)	0482	11.10	0.8000	10.92	0.9195	0.3290	92	0.19	050.99	0
050	Soluble Potassium as K2O (10%)	0029	11.13	0.3900	10.92	0.9195	0.3290	92	0.22	050.62	0
050	Soluble Potassium as K2O (10%)	0371	11.16	0.4900	10.92	0.9195	0.3290	92	0.25	050.99	0
050	Soluble Potassium as K2O (10%)	0547	11.16	0.1000	10.92	0.9195	0.3290	92	0.26	050.51	0
050	Soluble Potassium as K2O (10%)	0356	11.25	0.9900	10.92	0.9195	0.3290	92	0.35	050.30	0
050	Soluble Potassium as K2O (10%)	0042	11.25	0.7000	10.92	0.9195	0.3290	92	0.36	050.99	0
050	Soluble Potassium as K2O (10%)	0550	11.33	0.0600	10.92	0.9195	0.3290	92	0.44	050.00	0
050	Soluble Potassium as K2O (10%)	0136	11.35	0.1000	10.92	0.9195	0.3290	92	0.46	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 (10%)	0035	11.35	0.1000	10.92	0.9195	0.3290	92	0.46	050.61	0
050	Soluble Potassium as K2O (10%)	0416	11.36	0.0600	10.92	0.9195	0.3290	92	0.48	050.00	0
050	Soluble Potassium as K2O (10%)	0169	11.37	0.0300	10.92	0.9195	0.3290	92	0.48	050.60	0
050	Soluble Potassium as K2O (10%)	0117	11.38	0.1512	10.92	0.9195	0.3290	92	0.49	050.52	0
050	Soluble Potassium as K2O (10%)	0231	11.42	0.1600	10.92	0.9195	0.3290	92	0.54	050.00	0
050	Soluble Potassium as K2O (10%)	0230	11.50	0.6000	10.92	0.9195	0.3290	92	0.63	050.50	0
050	Soluble Potassium as K2O (10%)	0055	11.67‡	0.1100	10.92	0.9195	0.3290	92	0.81	050.50	0
050	Soluble Potassium as K2O (10%)	0405	11.70‡	0.1500	10.92	0.9195	0.3290	92	0.84	050.00	0
050	Soluble Potassium as K2O (10%)	0377	11.76‡	0.0600	10.92	0.9195	0.3290	92	0.91	050.52	0
050	Soluble Potassium as K2O (10%)	0025	11.80‡	1.000	10.92	0.9195	0.3290	92	0.95	050.52	0
050	Soluble Potassium as K2O (10%)	0034	11.82‡	0.4790	10.92	0.9195	0.3290	92	0.98	050.62	0
050	Soluble Potassium as K2O (10%)	0522	11.93‡	0.4200	10.92	0.9195	0.3290	92	1.10	050.00	0
050	Soluble Potassium as K2O (10%)	0433	11.93‡	0.0200	10.92	0.9195	0.3290	92	1.10	050.99	0
050	Soluble Potassium as K2O (10%)	0106	11.98‡	0.6900	10.92	0.9195	0.3290	92	1.14	050.50	0
050	Soluble Potassium as K2O (10%)	0095	12.17‡	0.3500	10.92	0.9195	0.3290	92	1.35	050.62	0
050	Soluble Potassium as K2O (10%)	0027	12.23‡	0.3600	10.92	0.9195	0.3290	92	1.42	050.99	0
050	Soluble Potassium as K2O (10%)	0451	12.27‡	0.4300	10.92	0.9195	0.3290	92	1.46	050.99	0
050	Soluble Potassium as K2O (10%)	0255	12.30‡	0.3990	10.92	0.9195	0.3290	92	1.50	050.99	0
050	Soluble Potassium as K2O (10%)	0542	12.32‡	0.0600	10.92	0.9195	0.3290	92	1.52	050.99	0
050	Soluble Potassium as K2O (10%)	0292	12.34‡	0.2100	10.92	0.9195	0.3290	92	1.54	050.50	0
050	Soluble Potassium as K2O (10%)	0131	12.44‡	0.0830	10.92	0.9195	0.3290	92	1.65	050.51	0
050	Soluble Potassium as K2O (10%)	0023	12.45‡	0.7000	10.92	0.9195	0.3290	92	1.66	050.52	0
050	Soluble Potassium as K2O (10%)	0561	12.49‡	0.3300	10.92	0.9195	0.3290	92	1.70	050.99	0
050	Soluble Potassium as K2O (10%)	0527	12.63‡	0.1990	10.92	0.9195	0.3290	92	1.86	050.99	0
050	Soluble Potassium as K2O (10%)	0043	13.03‡	0.2000	10.92	0.9195	0.3290	92	2.29	050.52	0
050	Soluble Potassium as K2O (10%)	0086	13.12‡	0.5920	10.92	0.9195	0.3290	92	2.39	050.50	0
050	Soluble Potassium as K2O (10%)	0516	14.51‡	0.3000	10.92	0.9195	0.3290	92	3.90	050.99	0
050	Soluble Potassium as K2O (10%)	0324	10.45	1.900	10.92	0.9195	0.3290	92	-0.51	050.50	1
050	Soluble Potassium as K2O (10%)	0524	13.71‡	2.874	10.92	0.9195	0.3290	92	3.03	050.99	1
060	Water (Free) (%)	0513	0.1100	0.0000	0.4205	0.2158	0.0050	4	-1.44	060.00	0
060	Water (Free) (%)	0416	0.4771	0.0046	0.4205	0.2158	0.0050	4	0.26	060.00	0
060	Water (Free) (%)	0513	0.4850	0.0100	0.4205	0.2158	0.0050	4	0.30	060.99	0
060	Water (Free) (%)	0510	0.6101	0.0055	0.4205	0.2158	0.0050	4	0.88	060.99	0
101	Acid Soluble Calcium (%)	0553	0.0025	0.0010	0.0276	0.0076	0.0024	11	-3.31	101.00	0
101	Acid Soluble Calcium (%)	0049	0.0186	0.0011	0.0276	0.0076	0.0024	11	-1.20	101.30	0
101	Acid Soluble Calcium (%)	0421	0.0200	0.0000	0.0276	0.0076	0.0024	11	-1.00	101.33	0
101	Acid Soluble Calcium (%)	0034	0.0275	0.0010	0.0276	0.0076	0.0024	11	-0.02	101.33	0
101	Acid Soluble Calcium (%)	0527	0.0277	0.0023	0.0276	0.0076	0.0024	11	0.00	101.33	0
101	Acid Soluble Calcium (%)	0086	0.0300	0.0013	0.0276	0.0076	0.0024	11	0.31	101.33	0
101	Acid Soluble Calcium (%)	0482	0.0300	0.0000	0.0276	0.0076	0.0024	11	0.31	101.30	0
101	Acid Soluble Calcium (%)	0389	0.0300	0.0000	0.0276	0.0076	0.0024	11	0.31	101.99	0
101	Acid Soluble Calcium (%)	0096	0.0320	0.0000	0.0276	0.0076	0.0024	11	0.58	101.30	0
101	Acid Soluble Calcium (%)	0055	0.0350	0.0100	0.0276	0.0076	0.0024	11	0.97	101.33	0
101	Acid Soluble Calcium (%)	0035	0.0370	0.0100	0.0276	0.0076	0.0024	11	1.23	101.30	0
101	Acid Soluble Calcium (%)	0552	1.251	0.2790	0.0276	0.0076	0.0024	11	161.06	101.99	2
121	Acid Soluble Magnesium (%)	0482	0.0400	0.0000	0.0482	0.0089	0.0109	16	-0.92	121.30	0
121	Acid Soluble Magnesium (%)	0055	0.0400	0.0000	0.0482	0.0089	0.0109	16	-0.92	121.33	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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121	Acid Soluble Magnesium (%)	0389	0.0400	0.0000	0.0482	0.0089	0.0109	16	-0.92	121.99	0
121	Acid Soluble Magnesium (%)	0049	0.0410	0.0001	0.0482	0.0089	0.0109	16	-0.81	121.30	0
121	Acid Soluble Magnesium (%)	0421	0.0420	0.0000	0.0482	0.0089	0.0109	16	-0.69	121.33	0
121	Acid Soluble Magnesium (%)	0524	0.0435	0.0089	0.0482	0.0089	0.0109	16	-0.53	121.99	0
121	Acid Soluble Magnesium (%)	0034	0.0440	0.0020	0.0482	0.0089	0.0109	16	-0.47	121.33	0
121	Acid Soluble Magnesium (%)	0086	0.0450	0.0001	0.0482	0.0089	0.0109	16	-0.36	121.33	0
121	Acid Soluble Magnesium (%)	0035	0.0460	0.0020	0.0482	0.0089	0.0109	16	-0.25	121.30	0
121	Acid Soluble Magnesium (%)	0096	0.0480	0.0000	0.0482	0.0089	0.0109	16	-0.02	121.30	0
121	Acid Soluble Magnesium (%)	0527	0.0487	0.0008	0.0482	0.0089	0.0109	16	0.06	121.33	0
121	Acid Soluble Magnesium (%)	0106	0.0542	0.0063	0.0482	0.0089	0.0109	16	0.67	121.33	0
121	Acid Soluble Magnesium (%)	0515	0.0578	0.0281	0.0482	0.0089	0.0109	16	1.07	121.33	0
121	Acid Soluble Magnesium (%)	0390	0.0579	0.0264	0.0482	0.0089	0.0109	16	1.09	121.30	0
121	Acid Soluble Magnesium (%)	0516	0.1050	0.0700	0.0482	0.0089	0.0109	16	6.38	121.99	0
121	Acid Soluble Magnesium (%)	0552	0.5850	0.0300	0.0482	0.0089	0.0109	16	60.27	121.99	0
121	Acid Soluble Magnesium (%)	0523	0.2500	0.1000	0.0482	0.0089	0.0109	16	22.66	121.99	1
131	Water Soluble Magnesium (%)	0553	0.0385	0.0030				1		131.00	0
143	Elemental Sulfur (%)	0390	3.470	0.0000	3.801	0.2508	0.0326	5	-1.32	143.99	0
143	Elemental Sulfur (%)	0481	3.695	0.0500	3.801	0.2508	0.0326	5	-0.42	143.99	0
143	Elemental Sulfur (%)	0389	3.835	0.0100	3.801	0.2508	0.0326	5	0.14	143.99	0
143	Elemental Sulfur (%)	0472	3.845	0.0300	3.801	0.2508	0.0326	5	0.18	143.99	0
143	Elemental Sulfur (%)	0255	4.159	0.0730	3.801	0.2508	0.0326	5	1.43	143.99	0
145	Sulfate Sulfur, HCl soluble (%)	0550	3.755	0.0100				2		145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0405	4.115	0.1300				2		145.00	0
148	Total Sulfur (%)	0521	3.194	0.0000	4.032	0.6008	0.1276	13	-1.39	148.04	0
148	Total Sulfur (%)	0523	3.430	0.1200	4.032	0.6008	0.1276	13	-1.00	148.99	0
148	Total Sulfur (%)	0546	3.575	0.2175	4.032	0.6008	0.1276	13	-0.76	148.07	0
148	Total Sulfur (%)	0394	3.620	0.0036	4.032	0.6008	0.1276	13	-0.68	148.07	0
148	Total Sulfur (%)	0086	3.852	0.1269	4.032	0.6008	0.1276	13	-0.30	148.07	0
148	Total Sulfur (%)	0526	3.933	0.0000	4.032	0.6008	0.1276	13	-0.16	148.01	0
148	Total Sulfur (%)	0421	3.945	0.0100	4.032	0.6008	0.1276	13	-0.14	148.07	0
148	Total Sulfur (%)	0405	4.115	0.1300	4.032	0.6008	0.1276	13	0.14	148.01	0
148	Total Sulfur (%)	0482	4.135	0.3500	4.032	0.6008	0.1276	13	0.17	148.99	0
148	Total Sulfur (%)	0527	4.364	0.3110	4.032	0.6008	0.1276	13	0.55	148.07	0
148	Total Sulfur (%)	0096	4.385	0.0900	4.032	0.6008	0.1276	13	0.59	148.99	0
148	Total Sulfur (%)	0043	5.050	0.2400	4.032	0.6008	0.1276	13	1.69	148.07	0
148	Total Sulfur (%)	0516	5.090	0.0600	4.032	0.6008	0.1276	13	1.76	148.99	0
148	Total Sulfur (%)	0515	3.273	1.586	4.032	0.6008	0.1276	13	-1.26	148.07	1
149	Sulfur - HNO3 soluble (%)	0524	4.135	0.9710				1		149.04	0
151	Acid Soluble Arsenic (ppm)	0515	8.890	4.050	16.00	1.970	0.6731	15	-3.61	151.34	0
151	Acid Soluble Arsenic (ppm)	0444	13.80	1.100	16.00	1.970	0.6731	15	-1.12	151.30	0
151	Acid Soluble Arsenic (ppm)	0220	14.30	0.4000	16.00	1.970	0.6731	15	-0.86	151.99	0
151	Acid Soluble Arsenic (ppm)	0450	14.50	1.000	16.00	1.970	0.6731	15	-0.76	151.30	0
151	Acid Soluble Arsenic (ppm)	0117	15.26	0.3110	16.00	1.970	0.6731	15	-0.38	151.33	0
151	Acid Soluble Arsenic (ppm)	0481	15.35	0.5000	16.00	1.970	0.6731	15	-0.33	151.99	0
151	Acid Soluble Arsenic (ppm)	0524	15.35	0.7070	16.00	1.970	0.6731	15	-0.33	151.30	0
151	Acid Soluble Arsenic (ppm)	0527	15.82	0.3820	16.00	1.970	0.6731	15	-0.09	151.33	0
151	Acid Soluble Arsenic (ppm)	0255	16.02	0.4080	16.00	1.970	0.6731	15	0.01	151.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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151	Acid Soluble Arsenic (ppm)	0521	16.91	0.0000	16.00	1.970	0.6731	15	0.46	151.32	0
151	Acid Soluble Arsenic (ppm)	0394	17.15	0.1000	16.00	1.970	0.6731	15	0.58	151.30	0
151	Acid Soluble Arsenic (ppm)	0136	17.30	0.8000	16.00	1.970	0.6731	15	0.66	151.33	0
151	Acid Soluble Arsenic (ppm)	0037	17.67	0.2490	16.00	1.970	0.6731	15	0.85	151.33	0
151	Acid Soluble Arsenic (ppm)	0096	18.60	0.0000	16.00	1.970	0.6731	15	1.32	151.30	0
151	Acid Soluble Arsenic (ppm)	0519	19.25	0.0900	16.00	1.970	0.6731	15	1.65	151.99	0
151	Acid Soluble Arsenic (ppm)	0515	11.69	9.360	16.00	1.970	0.6731	15	-2.19	151.33	1
151	Acid Soluble Arsenic (ppm)	0027	< 0.002		16.00	1.970	0.6731	15		151.30	5
151	Acid Soluble Arsenic (ppm)	0550	< 0.08		16.00	1.970	0.6731	15		151.00	5
151	Acid Soluble Arsenic (ppm)	0555	< 0.5		16.00	1.970	0.6731	15		151.30	5
151	Acid Soluble Arsenic (ppm)	0526	< 50		16.00	1.970	0.6731	15		151.00	5
165	Acid Soluble Boron (0.02%)	0377	0.01400†	0.0000	0.0203	0.0022	0.0018	37	-2.90	165.30	0
165	Acid Soluble Boron (0.02%)	0309	0.0150	0.0100	0.0203	0.0022	0.0018	37	-2.44	165.00	0
165	Acid Soluble Boron (0.02%)	0106	0.0165	0.0030	0.0203	0.0022	0.0018	37	-1.74	165.30	0
165	Acid Soluble Boron (0.02%)	0055	0.0170	0.0020	0.0203	0.0022	0.0018	37	-1.51	165.00	0
165	Acid Soluble Boron (0.02%)	0324	0.0175	0.0030	0.0203	0.0022	0.0018	37	-1.28	165.30	0
165	Acid Soluble Boron (0.02%)	0521	0.0183	0.0000	0.0203	0.0022	0.0018	37	-0.91	165.30	0
165	Acid Soluble Boron (0.02%)	0524	0.0187	0.0035	0.0203	0.0022	0.0018	37	-0.75	165.99	0
165	Acid Soluble Boron (0.02%)	0360	0.0190	0.0000	0.0203	0.0022	0.0018	37	-0.58	165.99	0
165	Acid Soluble Boron (0.02%)	0117	0.0194	0.0020	0.0203	0.0022	0.0018	37	-0.40	165.99	0
165	Acid Soluble Boron (0.02%)	0049	0.0196	0.0014	0.0203	0.0022	0.0018	37	-0.31	165.30	0
165	Acid Soluble Boron (0.02%)	0550	0.0199	0.0004	0.0203	0.0022	0.0018	37	-0.17	165.00	0
165	Acid Soluble Boron (0.02%)	0043	0.0200	0.0040	0.0203	0.0022	0.0018	37	-0.12	165.30	0
165	Acid Soluble Boron (0.02%)	0534	0.0200	0.0000	0.0203	0.0022	0.0018	37	-0.12	165.00	0
165	Acid Soluble Boron (0.02%)	0102	0.0200	0.0000	0.0203	0.0022	0.0018	37	-0.12	165.30	0
165	Acid Soluble Boron (0.02%)	0136	0.0200	0.0000	0.0203	0.0022	0.0018	37	-0.12	165.30	0
165	Acid Soluble Boron (0.02%)	0234	0.0200	0.0000	0.0203	0.0022	0.0018	37	-0.12	165.30	0
165	Acid Soluble Boron (0.02%)	0389	0.0200	0.0000	0.0203	0.0022	0.0018	37	-0.12	165.30	0
165	Acid Soluble Boron (0.02%)	0433	0.0200	0.0000	0.0203	0.0022	0.0018	37	-0.12	165.30	0
165	Acid Soluble Boron (0.02%)	0444	0.0200	0.0000	0.0203	0.0022	0.0018	37	-0.12	165.30	0
165	Acid Soluble Boron (0.02%)	0231	0.0200	0.0000	0.0203	0.0022	0.0018	37	-0.12	165.99	0
165	Acid Soluble Boron (0.02%)	0421	0.0200	0.0000	0.0203	0.0022	0.0018	37	-0.12	165.99	0
165	Acid Soluble Boron (0.02%)	0482	0.0200	0.0000	0.0203	0.0022	0.0018	37	-0.12	165.99	0
165	Acid Soluble Boron (0.02%)	0486	0.0200	0.0000	0.0203	0.0022	0.0018	37	-0.12	165.99	0
165	Acid Soluble Boron (0.02%)	0516	0.0200	0.0000	0.0203	0.0022	0.0018	37	-0.12	165.99	0
165	Acid Soluble Boron (0.02%)	0546	0.0202	0.0002	0.0203	0.0022	0.0018	37	-0.03	165.99	0
165	Acid Soluble Boron (0.02%)	0255	0.0205	0.0010	0.0203	0.0022	0.0018	37	0.11	165.99	0
165	Acid Soluble Boron (0.02%)	0390	0.0209	0.0049	0.0203	0.0022	0.0018	37	0.27	165.99	0
165	Acid Soluble Boron (0.02%)	0535	0.0209	0.0002	0.0203	0.0022	0.0018	37	0.30	165.00	0
165	Acid Soluble Boron (0.02%)	0086	0.0220	0.0055	0.0203	0.0022	0.0018	37	0.78	165.30	0
165	Acid Soluble Boron (0.02%)	0394	0.0221	0.0012	0.0203	0.0022	0.0018	37	0.85	165.30	0
165	Acid Soluble Boron (0.02%)	0527	0.0222	0.0010	0.0203	0.0022	0.0018	37	0.90	165.99	0
165	Acid Soluble Boron (0.02%)	0540	0.0230	0.0020	0.0203	0.0022	0.0018	37	1.27	165.00	0
165	Acid Soluble Boron (0.02%)	0029	0.0245	0.0010	0.0203	0.0022	0.0018	37	1.96	165.00	0
165	Acid Soluble Boron (0.02%)	0472	0.0250	0.0100	0.0203	0.0022	0.0018	37	2.20	165.99	0
165	Acid Soluble Boron (0.02%)	0520	0.0250	0.0100	0.0203	0.0022	0.0018	37	2.20	165.99	0
165	Acid Soluble Boron (0.02%)	0515	0.0251	0.0017	0.0203	0.0022	0.0018	37	2.22	165.99	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				
165	Acid Soluble Boron (0.02%)	0498	0.03000‡	0.0000	0.0203	0.0022	0.0018	37	4.51	165.00	0
165	Acid Soluble Boron (0.02%)	0552	0.3150‡	0.3300	0.0203	0.0022	0.0018	37	136.57	165.99	2
165	Acid Soluble Boron (0.02%)	0481	< 0.02		0.0203	0.0022	0.0018	37		165.00	5
171	Water Soluble Boron (%)	0526	0.0162	0.0016	0.0195	0.0015	0.0005	10	-1.97	171.10	0
171	Water Soluble Boron (%)	0027	0.0180	0.0000	0.0195	0.0015	0.0005	10	-0.89	171.99	0
171	Water Soluble Boron (%)	0537	0.0185	0.0010	0.0195	0.0015	0.0005	10	-0.59	171.10	0
171	Water Soluble Boron (%)	0553	0.0190	0.0000	0.0195	0.0015	0.0005	10	-0.29	171.10	0
171	Water Soluble Boron (%)	0535	0.0194	0.0004	0.0195	0.0015	0.0005	10	-0.05	171.10	0
171	Water Soluble Boron (%)	0519	0.0200	0.0000	0.0195	0.0015	0.0005	10	0.31	171.99	0
171	Water Soluble Boron (%)	0532	0.0200	0.0000	0.0195	0.0015	0.0005	10	0.31	171.99	0
171	Water Soluble Boron (%)	0560	0.0203	0.0001	0.0195	0.0015	0.0005	10	0.46	171.99	0
171	Water Soluble Boron (%)	0394	0.0208	0.0005	0.0195	0.0015	0.0005	10	0.76	171.99	0
171	Water Soluble Boron (%)	0543	0.0345	0.0010	0.0195	0.0015	0.0005	10	9.01	171.99	0
181	Acid Soluble Cadmium (ppm)	0519	0.0200	0.0000	0.3698	0.3643	0.0300	8	-0.96	181.99	0
181	Acid Soluble Cadmium (ppm)	0524	0.0349	0.0116	0.3698	0.3643	0.0300	8	-0.92	181.30	0
181	Acid Soluble Cadmium (ppm)	0389	0.0700	0.0000	0.3698	0.3643	0.0300	8	-0.82	181.30	0
181	Acid Soluble Cadmium (ppm)	0394	0.3405	0.0150	0.3698	0.3643	0.0300	8	-0.08	181.30	0
181	Acid Soluble Cadmium (ppm)	0035	0.4275	0.0930	0.3698	0.3643	0.0300	8	0.16	181.30	0
181	Acid Soluble Cadmium (ppm)	0550	0.4990	0.0000	0.3698	0.3643	0.0300	8	0.35	181.00	0
181	Acid Soluble Cadmium (ppm)	0220	0.6500	0.1000	0.3698	0.3643	0.0300	8	0.77	181.99	0
181	Acid Soluble Cadmium (ppm)	0482	1.090	0.0200	0.3698	0.3643	0.0300	8	1.98	181.30	0
181	Acid Soluble Cadmium (ppm)	0255	0.8945	1.495	0.3698	0.3643	0.0300	8	1.44	181.30	1
181	Acid Soluble Cadmium (ppm)	0450	0.0000	0.0000	0.3698	0.3643	0.0300	8		181.30	4
181	Acid Soluble Cadmium (ppm)	0515	0.0000	0.0000	0.3698	0.3643	0.0300	8		181.33	4
181	Acid Soluble Cadmium (ppm)	0515	0.0000	0.0000	0.3698	0.3643	0.0300	8		181.34	4
181	Acid Soluble Cadmium (ppm)	0527	< 0.0001		0.3698	0.3643	0.0300	8		181.33	5
181	Acid Soluble Cadmium (ppm)	0027	< 0.002		0.3698	0.3643	0.0300	8		181.30	5
181	Acid Soluble Cadmium (ppm)	0526	< 0.0028		0.3698	0.3643	0.0300	8		181.00	5
181	Acid Soluble Cadmium (ppm)	0555	< 0.5		0.3698	0.3643	0.0300	8		181.30	5
181	Acid Soluble Cadmium (ppm)	0481	< 0.5		0.3698	0.3643	0.0300	8		181.99	5
181	Acid Soluble Cadmium (ppm)	0117	< 5		0.3698	0.3643	0.0300	8		181.33	5
191	Acid Soluble Chromium (ppm)	0527	9.559	0.1850	12.44	2.233	0.7132	15	-1.29	191.33	0
191	Acid Soluble Chromium (ppm)	0515	9.866	5.258	12.44	2.233	0.7132	15	-1.15	191.34	0
191	Acid Soluble Chromium (ppm)	0096	10.60	0.0000	12.44	2.233	0.7132	15	-0.83	191.30	0
191	Acid Soluble Chromium (ppm)	0450	11.00	2.000	12.44	2.233	0.7132	15	-0.65	191.30	0
191	Acid Soluble Chromium (ppm)	0520	11.23	0.0300	12.44	2.233	0.7132	15	-0.55	191.99	0
191	Acid Soluble Chromium (ppm)	0524	11.64	1.088	12.44	2.233	0.7132	15	-0.36	191.30	0
191	Acid Soluble Chromium (ppm)	0037	11.91	0.2860	12.44	2.233	0.7132	15	-0.24	191.33	0
191	Acid Soluble Chromium (ppm)	0550	12.08	0.0900	12.44	2.233	0.7132	15	-0.17	191.00	0
191	Acid Soluble Chromium (ppm)	0444	12.13	0.5200	12.44	2.233	0.7132	15	-0.14	191.30	0
191	Acid Soluble Chromium (ppm)	0389	12.33	0.1300	12.44	2.233	0.7132	15	-0.05	191.30	0
191	Acid Soluble Chromium (ppm)	0035	14.35	0.3000	12.44	2.233	0.7132	15	0.85	191.30	0
191	Acid Soluble Chromium (ppm)	0394	14.40	0.2000	12.44	2.233	0.7132	15	0.88	191.30	0
191	Acid Soluble Chromium (ppm)	0220	14.45	0.3000	12.44	2.233	0.7132	15	0.90	191.99	0
191	Acid Soluble Chromium (ppm)	0482	15.35	0.3000	12.44	2.233	0.7132	15	1.30	191.30	0
191	Acid Soluble Chromium (ppm)	0519	15.80	0.0100	12.44	2.233	0.7132	15	1.50	191.99	0
191	Acid Soluble Chromium (ppm)	0515	15.96	9.329	12.44	2.233	0.7132	15	1.58	191.33	1

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
191	Acid Soluble Chromium (ppm)	0526	< 0.0054		12.44	2.233	0.7132	15		191.00	5
191	Acid Soluble Chromium (ppm)	0555	< 0.5		12.44	2.233	0.7132	15		191.30	5
191	Acid Soluble Chromium (ppm)	0481	< 25		12.44	2.233	0.7132	15		191.99	5
202	Acid Soluble Cobalt (ppm)	0546	0.2631	0.2255	0.4986	0.2840	0.1092	7	-0.83	202.33	0
202	Acid Soluble Cobalt (ppm)	0519	0.2950	0.0100	0.4986	0.2840	0.1092	7	-0.72	202.99	0
202	Acid Soluble Cobalt (ppm)	0220	0.3000	0.0000	0.4986	0.2840	0.1092	7	-0.70	202.99	0
202	Acid Soluble Cobalt (ppm)	0389	0.3865	0.1390	0.4986	0.2840	0.1092	7	-0.39	202.30	0
202	Acid Soluble Cobalt (ppm)	0550	0.6250	0.0500	0.4986	0.2840	0.1092	7	0.45	202.33	0
202	Acid Soluble Cobalt (ppm)	0524	0.7182	0.1148	0.4986	0.2840	0.1092	7	0.77	202.30	0
202	Acid Soluble Cobalt (ppm)	0255	0.9025	0.2250	0.4986	0.2840	0.1092	7	1.42	202.99	0
202	Acid Soluble Cobalt (ppm)	0515	0.0000	0.0000	0.4986	0.2840	0.1092	7		202.33	4
202	Acid Soluble Cobalt (ppm)	0515	0.0000	0.0000	0.4986	0.2840	0.1092	7		202.34	4
202	Acid Soluble Cobalt (ppm)	0527	< 0.0001		0.4986	0.2840	0.1092	7		202.33	5
202	Acid Soluble Cobalt (ppm)	0027	< 0.002		0.4986	0.2840	0.1092	7		202.30	5
202	Acid Soluble Cobalt (ppm)	0526	< 0.01		0.4986	0.2840	0.1092	7		202.00	5
202	Acid Soluble Cobalt (ppm)	0555	< 0.5		0.4986	0.2840	0.1092	7		202.30	5
202	Acid Soluble Cobalt (ppm)	0136	< 2		0.4986	0.2840	0.1092	7		202.33	5
202	Acid Soluble Cobalt (ppm)	0481	< 10		0.4986	0.2840	0.1092	7		202.99	5
221	Acid Soluble Copper (0.05%)	0516	0.02000†	0.0000	0.0488	0.0093	0.0194	56	-3.10	221.99	0
221	Acid Soluble Copper (0.05%)	0543	0.02700†	0.0080	0.0488	0.0093	0.0194	56	-2.35	221.33	0
221	Acid Soluble Copper (0.05%)	0255	0.03500†	0.0080	0.0488	0.0093	0.0194	56	-1.49	221.30	0
221	Acid Soluble Copper (0.05%)	0377	0.03600†	0.0000	0.0488	0.0093	0.0194	56	-1.38	221.30	0
221	Acid Soluble Copper (0.05%)	0035	0.03835†	0.0095	0.0488	0.0093	0.0194	56	-1.13	221.30	0
221	Acid Soluble Copper (0.05%)	0023	0.0400	0.0000	0.0488	0.0093	0.0194	56	-0.95	221.30	0
221	Acid Soluble Copper (0.05%)	0102	0.0400	0.0000	0.0488	0.0093	0.0194	56	-0.95	221.30	0
221	Acid Soluble Copper (0.05%)	0231	0.0400	0.0000	0.0488	0.0093	0.0194	56	-0.95	221.30	0
221	Acid Soluble Copper (0.05%)	0324	0.0400	0.0100	0.0488	0.0093	0.0194	56	-0.95	221.30	0
221	Acid Soluble Copper (0.05%)	0433	0.0400	0.0000	0.0488	0.0093	0.0194	56	-0.95	221.30	0
221	Acid Soluble Copper (0.05%)	0472	0.0400	0.0000	0.0488	0.0093	0.0194	56	-0.95	221.30	0
221	Acid Soluble Copper (0.05%)	0482	0.0400	0.0000	0.0488	0.0093	0.0194	56	-0.95	221.30	0
221	Acid Soluble Copper (0.05%)	0055	0.0400	0.0000	0.0488	0.0093	0.0194	56	-0.95	221.33	0
221	Acid Soluble Copper (0.05%)	0389	0.0400	0.0000	0.0488	0.0093	0.0194	56	-0.95	221.99	0
221	Acid Soluble Copper (0.05%)	0481	0.0400	0.0000	0.0488	0.0093	0.0194	56	-0.95	221.99	0
221	Acid Soluble Copper (0.05%)	0524	0.0421	0.0126	0.0488	0.0093	0.0194	56	-0.72	221.99	0
221	Acid Soluble Copper (0.05%)	0526	0.0431	0.0000	0.0488	0.0093	0.0194	56	-0.61	221.03	0
221	Acid Soluble Copper (0.05%)	0117	0.0439	0.0050	0.0488	0.0093	0.0194	56	-0.53	221.33	0
221	Acid Soluble Copper (0.05%)	0049	0.0443	0.0019	0.0488	0.0093	0.0194	56	-0.49	221.30	0
221	Acid Soluble Copper (0.05%)	0371	0.0450	0.0100	0.0488	0.0093	0.0194	56	-0.41	221.30	0
221	Acid Soluble Copper (0.05%)	0515	0.0454	0.0035	0.0488	0.0093	0.0194	56	-0.37	221.99	0
221	Acid Soluble Copper (0.05%)	0220	0.0465	0.0010	0.0488	0.0093	0.0194	56	-0.25	221.32	0
221	Acid Soluble Copper (0.05%)	0106	0.0465	0.0182	0.0488	0.0093	0.0194	56	-0.25	221.33	0
221	Acid Soluble Copper (0.05%)	0220	0.0474	0.0013	0.0488	0.0093	0.0194	56	-0.15	221.99	0
221	Acid Soluble Copper (0.05%)	0360	0.0483	0.0035	0.0488	0.0093	0.0194	56	-0.06	221.30	0
221	Acid Soluble Copper (0.05%)	0394	0.0490	0.0011	0.0488	0.0093	0.0194	56	0.02	221.32	0
221	Acid Soluble Copper (0.05%)	0527	0.0491	0.0008	0.0488	0.0093	0.0194	56	0.03	221.33	0
221	Acid Soluble Copper (0.05%)	0535	0.0495	0.0010	0.0488	0.0093	0.0194	56	0.08	221.00	0
221	Acid Soluble Copper (0.05%)	0553	0.0495	0.0010	0.0488	0.0093	0.0194	56	0.08	221.00	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				
221	Acid Soluble Copper (0.05%)	0040	0.0500	0.0055	0.0488	0.0093	0.0194	56	0.13	221.00	0
221	Acid Soluble Copper (0.05%)	0498	0.0500	0.0000	0.0488	0.0093	0.0194	56	0.13	221.00	0
221	Acid Soluble Copper (0.05%)	0136	0.0500	0.0000	0.0488	0.0093	0.0194	56	0.13	221.33	0
221	Acid Soluble Copper (0.05%)	0486	0.0500	0.0000	0.0488	0.0093	0.0194	56	0.13	221.33	0
221	Acid Soluble Copper (0.05%)	0519	0.0500	0.0000	0.0488	0.0093	0.0194	56	0.13	221.99	0
221	Acid Soluble Copper (0.05%)	0534	0.0510	0.0000	0.0488	0.0093	0.0194	56	0.24	221.00	0
221	Acid Soluble Copper (0.05%)	0540	0.0515	0.0010	0.0488	0.0093	0.0194	56	0.29	221.00	0
221	Acid Soluble Copper (0.05%)	0043	0.0525	0.0010	0.0488	0.0093	0.0194	56	0.40	221.32	0
221	Acid Soluble Copper (0.05%)	0532	0.0525	0.0030	0.0488	0.0093	0.0194	56	0.40	221.99	0
221	Acid Soluble Copper (0.05%)	0086	0.0527	0.0120	0.0488	0.0093	0.0194	56	0.42	221.33	0
221	Acid Soluble Copper (0.05%)	0560	0.0530	0.0020	0.0488	0.0093	0.0194	56	0.45	221.99	0
221	Acid Soluble Copper (0.05%)	0390	0.0540	0.0054	0.0488	0.0093	0.0194	56	0.56	221.99	0
221	Acid Soluble Copper (0.05%)	0521	0.0543	0.0000	0.0488	0.0093	0.0194	56	0.59	221.32	0
221	Acid Soluble Copper (0.05%)	0444	0.0545	0.0010	0.0488	0.0093	0.0194	56	0.62	221.30	0
221	Acid Soluble Copper (0.05%)	0095	0.0550	0.0100	0.0488	0.0093	0.0194	56	0.67	221.30	0
221	Acid Soluble Copper (0.05%)	0234	0.0550	0.0100	0.0488	0.0093	0.0194	56	0.67	221.30	0
221	Acid Soluble Copper (0.05%)	0546	0.0558	0.0026	0.0488	0.0093	0.0194	56	0.76	221.33	0
221	Acid Soluble Copper (0.05%)	0037	0.0560	0.0100	0.0488	0.0093	0.0194	56	0.78	221.33	0
221	Acid Soluble Copper (0.05%)	0523	0.0570	0.0020	0.0488	0.0093	0.0194	56	0.89	221.99	0
221	Acid Soluble Copper (0.05%)	0520	0.06000‡	0.0000	0.0488	0.0093	0.0194	56	1.21	221.99	0
221	Acid Soluble Copper (0.05%)	0096	0.06290‡	0.0002	0.0488	0.0093	0.0194	56	1.52	221.30	0
221	Acid Soluble Copper (0.05%)	0561	0.06500‡	0.0100	0.0488	0.0093	0.0194	56	1.75	221.33	0
221	Acid Soluble Copper (0.05%)	0555	0.06550‡	0.0110	0.0488	0.0093	0.0194	56	1.80	221.33	0
221	Acid Soluble Copper (0.05%)	0515	0.06770‡	0.0626	0.0488	0.0093	0.0194	56	2.04	221.33	0
221	Acid Soluble Copper (0.05%)	0550	0.2200‡	0.3601	0.0488	0.0093	0.0194	56	18.45	221.00	0
221	Acid Soluble Copper (0.05%)	0552	0.2350‡	0.0700	0.0488	0.0093	0.0194	56	20.07	221.30	0
221	Acid Soluble Copper (0.05%)	0027	0.2645‡	0.4110	0.0488	0.0093	0.0194	56	23.25	221.99	0
221	Acid Soluble Copper (0.05%)	0450	303.0‡	18.00	0.0488	0.0093	0.0194	56	32654.96	221.30	2
241	Acid Soluble Iron (0.1%)	0516	0.05500†	0.0100	0.1018	0.0130	0.0097	58	-3.60	241.99	0
241	Acid Soluble Iron (0.1%)	0561	0.07500†	0.0100	0.1018	0.0130	0.0097	58	-2.06	241.33	0
241	Acid Soluble Iron (0.1%)	0520	0.07500†	0.0100	0.1018	0.0130	0.0097	58	-2.06	241.99	0
241	Acid Soluble Iron (0.1%)	0481	0.08000†	0.0000	0.1018	0.0130	0.0097	58	-1.68	241.99	0
241	Acid Soluble Iron (0.1%)	0377	0.08300†	0.0020	0.1018	0.0130	0.0097	58	-1.45	241.30	0
241	Acid Soluble Iron (0.1%)	0023	0.08500†	0.0100	0.1018	0.0130	0.0097	58	-1.29	241.30	0
241	Acid Soluble Iron (0.1%)	0231	0.08500†	0.0100	0.1018	0.0130	0.0097	58	-1.29	241.30	0
241	Acid Soluble Iron (0.1%)	0472	0.08500†	0.0100	0.1018	0.0130	0.0097	58	-1.29	241.30	0
241	Acid Soluble Iron (0.1%)	0106	0.08580†	0.0462	0.1018	0.0130	0.0097	58	-1.23	241.33	0
241	Acid Soluble Iron (0.1%)	0049	0.0889	0.0007	0.1018	0.0130	0.0097	58	-1.00	241.30	0
241	Acid Soluble Iron (0.1%)	0035	0.0890	0.0060	0.1018	0.0130	0.0097	58	-0.99	241.30	0
241	Acid Soluble Iron (0.1%)	0371	0.0900	0.0200	0.1018	0.0130	0.0097	58	-0.91	241.30	0
241	Acid Soluble Iron (0.1%)	0389	0.0900	0.0000	0.1018	0.0130	0.0097	58	-0.91	241.99	0
241	Acid Soluble Iron (0.1%)	0543	0.0925	0.0710	0.1018	0.0130	0.0097	58	-0.72	241.33	0
241	Acid Soluble Iron (0.1%)	0532	0.0945	0.0030	0.1018	0.0130	0.0097	58	-0.56	241.99	0
241	Acid Soluble Iron (0.1%)	0095	0.0950	0.0100	0.1018	0.0130	0.0097	58	-0.53	241.30	0
241	Acid Soluble Iron (0.1%)	0102	0.0950	0.0100	0.1018	0.0130	0.0097	58	-0.53	241.30	0
241	Acid Soluble Iron (0.1%)	0524	0.0953	0.0271	0.1018	0.0130	0.0097	58	-0.51	241.99	0
241	Acid Soluble Iron (0.1%)	0117	0.0963	0.0085	0.1018	0.0130	0.0097	58	-0.43	241.33	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				
241	Acid Soluble Iron (0.1%)	0550	0.0974	0.0003	0.1018	0.0130	0.0097	58	-0.34	241.00	0
241	Acid Soluble Iron (0.1%)	0034	0.0985	0.0170	0.1018	0.0130	0.0097	58	-0.26	241.33	0
241	Acid Soluble Iron (0.1%)	0498	0.1000	0.0000	0.1018	0.0130	0.0097	58	-0.14	241.00	0
241	Acid Soluble Iron (0.1%)	0433	0.1000	0.0000	0.1018	0.0130	0.0097	58	-0.14	241.30	0
241	Acid Soluble Iron (0.1%)	0444	0.1000	0.0000	0.1018	0.0130	0.0097	58	-0.14	241.30	0
241	Acid Soluble Iron (0.1%)	0482	0.1000	0.0000	0.1018	0.0130	0.0097	58	-0.14	241.30	0
241	Acid Soluble Iron (0.1%)	0136	0.1000	0.0000	0.1018	0.0130	0.0097	58	-0.14	241.33	0
241	Acid Soluble Iron (0.1%)	0535	0.1010	0.0020	0.1018	0.0130	0.0097	58	-0.06	241.00	0
241	Acid Soluble Iron (0.1%)	0043	0.1010	0.0060	0.1018	0.0130	0.0097	58	-0.06	241.33	0
241	Acid Soluble Iron (0.1%)	0553	0.1015	0.0010	0.1018	0.0130	0.0097	58	-0.03	241.00	0
241	Acid Soluble Iron (0.1%)	0255	0.1020	0.0220	0.1018	0.0130	0.0097	58	0.01	241.30	0
241	Acid Soluble Iron (0.1%)	0220	0.1045	0.0010	0.1018	0.0130	0.0097	58	0.21	241.32	0
241	Acid Soluble Iron (0.1%)	0234	0.1050	0.0300	0.1018	0.0130	0.0097	58	0.24	241.30	0
241	Acid Soluble Iron (0.1%)	0519	0.1050	0.0100	0.1018	0.0130	0.0097	58	0.24	241.99	0
241	Acid Soluble Iron (0.1%)	0540	0.1055	0.0110	0.1018	0.0130	0.0097	58	0.28	241.00	0
241	Acid Soluble Iron (0.1%)	0157	0.1059	0.0122	0.1018	0.0130	0.0097	58	0.31	241.30	0
241	Acid Soluble Iron (0.1%)	0527	0.1060	0.0020	0.1018	0.0130	0.0097	58	0.32	241.33	0
241	Acid Soluble Iron (0.1%)	0356	0.1060	0.0140	0.1018	0.0130	0.0097	58	0.32	241.00	0
241	Acid Soluble Iron (0.1%)	0177	0.1061	0.0049	0.1018	0.0130	0.0097	58	0.32	241.33	0
241	Acid Soluble Iron (0.1%)	0560	0.1065	0.0030	0.1018	0.0130	0.0097	58	0.36	241.99	0
241	Acid Soluble Iron (0.1%)	0390	0.1070	0.0060	0.1018	0.0130	0.0097	58	0.40	241.30	0
241	Acid Soluble Iron (0.1%)	0534	0.1100	0.0000	0.1018	0.0130	0.0097	58	0.63	241.00	0
241	Acid Soluble Iron (0.1%)	0055	0.1100	0.0000	0.1018	0.0130	0.0097	58	0.63	241.33	0
241	Acid Soluble Iron (0.1%)	0486	0.1100	0.0000	0.1018	0.0130	0.0097	58	0.63	241.33	0
241	Acid Soluble Iron (0.1%)	0394	0.1104	0.0028	0.1018	0.0130	0.0097	58	0.66	241.32	0
241	Acid Soluble Iron (0.1%)	0360	0.1115	0.0090	0.1018	0.0130	0.0097	58	0.74	241.30	0
241	Acid Soluble Iron (0.1%)	0324	0.1120	0.0160	0.1018	0.0130	0.0097	58	0.78	241.30	0
241	Acid Soluble Iron (0.1%)	0027	0.1125	0.0250	0.1018	0.0130	0.0097	58	0.82	241.99	0
241	Acid Soluble Iron (0.1%)	0546	0.1132	0.0052	0.1018	0.0130	0.0097	58	0.87	241.33	0
241	Acid Soluble Iron (0.1%)	0086	0.1136	0.0260	0.1018	0.0130	0.0097	58	0.90	241.33	0
241	Acid Soluble Iron (0.1%)	0029	0.1143	0.0037	0.1018	0.0130	0.0097	58	0.95	241.00	0
241	Acid Soluble Iron (0.1%)	0040	0.1150	0.0100	0.1018	0.0130	0.0097	58	1.01	241.00	0
241	Acid Soluble Iron (0.1%)	0096	0.1150	0.0100	0.1018	0.0130	0.0097	58	1.01	241.30	0
241	Acid Soluble Iron (0.1%)	0526	0.1153	0.0000	0.1018	0.0130	0.0097	58	1.04	241.03	0
241	Acid Soluble Iron (0.1%)	0555	0.1200‡	0.0000	0.1018	0.0130	0.0097	58	1.40	241.30	0
241	Acid Soluble Iron (0.1%)	0037	0.1260‡	0.0220	0.1018	0.0130	0.0097	58	1.86	241.33	0
241	Acid Soluble Iron (0.1%)	0523	0.1320‡	0.0140	0.1018	0.0130	0.0097	58	2.32	241.99	0
241	Acid Soluble Iron (0.1%)	0515	0.1369‡	0.0091	0.1018	0.0130	0.0097	58	2.69	241.99	0
241	Acid Soluble Iron (0.1%)	0521	0.1453‡	0.0000	0.1018	0.0130	0.0097	58	3.34	241.32	0
241	Acid Soluble Iron (0.1%)	0515	0.2080‡	0.2237	0.1018	0.0130	0.0097	58	8.16	241.33	1
241	Acid Soluble Iron (0.1%)	0552	0.8500‡	0.1600	0.1018	0.0130	0.0097	58	57.53	241.30	2
251	Acid Soluble Lead (ppm)	0389	0.0995	0.0550	0.6153	0.5187	0.1101	11	-0.99	251.30	0
251	Acid Soluble Lead (ppm)	0519	0.1750	0.0100	0.6153	0.5187	0.1101	11	-0.85	251.99	0
251	Acid Soluble Lead (ppm)	0524	0.2297	0.0207	0.6153	0.5187	0.1101	11	-0.74	251.30	0
251	Acid Soluble Lead (ppm)	0136	0.2500	0.0800	0.6153	0.5187	0.1101	11	-0.70	251.33	0
251	Acid Soluble Lead (ppm)	0450	0.4000	0.0000	0.6153	0.5187	0.1101	11	-0.42	251.30	0
251	Acid Soluble Lead (ppm)	0550	0.5740	0.1500	0.6153	0.5187	0.1101	11	-0.08	251.00	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				
251	Acid Soluble Lead (ppm)	0394	0.6400	0.0380	0.6153	0.5187	0.1101	11	0.05	251.30	0
251	Acid Soluble Lead (ppm)	0255	0.7135	0.6770	0.6153	0.5187	0.1101	11	0.19	251.30	0
251	Acid Soluble Lead (ppm)	0220	0.9000	0.0000	0.6153	0.5187	0.1101	11	0.55	251.99	0
251	Acid Soluble Lead (ppm)	0086	1.436	0.0000	0.6153	0.5187	0.1101	11	1.58	251.33	0
251	Acid Soluble Lead (ppm)	0482	4.650	0.1800	0.6153	0.5187	0.1101	11	7.78	251.30	0
251	Acid Soluble Lead (ppm)	0515	4.756	3.030	0.6153	0.5187	0.1101	11	7.98	251.33	1
251	Acid Soluble Lead (ppm)	0515	0.0000	0.0000	0.6153	0.5187	0.1101	11		251.34	4
251	Acid Soluble Lead (ppm)	0527	< 0.0001		0.6153	0.5187	0.1101	11		251.33	5
251	Acid Soluble Lead (ppm)	0526	< 0.013		0.6153	0.5187	0.1101	11		251.00	5
251	Acid Soluble Lead (ppm)	0555	< 0.5		0.6153	0.5187	0.1101	11		251.30	5
251	Acid Soluble Lead (ppm)	0481	< 0.5		0.6153	0.5187	0.1101	11		251.99	5
251	Acid Soluble Lead (ppm)	0117	< 5		0.6153	0.5187	0.1101	11		251.33	5
261	Acid Soluble Manganese (0.05%)	0516	0.03000†	0.0000	0.0537	0.0062	0.0037	50	-3.83	261.99	0
261	Acid Soluble Manganese (0.05%)	0561	0.04000†	0.0000	0.0537	0.0062	0.0037	50	-2.21	261.35	0
261	Acid Soluble Manganese (0.05%)	0377	0.04100†	0.0000	0.0537	0.0062	0.0037	50	-2.05	261.32	0
261	Acid Soluble Manganese (0.05%)	0515	0.04180†	0.0074	0.0537	0.0062	0.0037	50	-1.92	261.99	0
261	Acid Soluble Manganese (0.05%)	0394	0.0473	0.0008	0.0537	0.0062	0.0037	50	-1.03	261.34	0
261	Acid Soluble Manganese (0.05%)	0035	0.0481	0.0076	0.0537	0.0062	0.0037	50	-0.90	261.30	0
261	Acid Soluble Manganese (0.05%)	0527	0.0484	0.0178	0.0537	0.0062	0.0037	50	-0.86	261.35	0
261	Acid Soluble Manganese (0.05%)	0535	0.0495	0.0010	0.0537	0.0062	0.0037	50	-0.68	261.12	0
261	Acid Soluble Manganese (0.05%)	0049	0.0498	0.0029	0.0537	0.0062	0.0037	50	-0.64	261.32	0
261	Acid Soluble Manganese (0.05%)	0102	0.0500	0.0000	0.0537	0.0062	0.0037	50	-0.60	261.30	0
261	Acid Soluble Manganese (0.05%)	0433	0.0500	0.0000	0.0537	0.0062	0.0037	50	-0.60	261.30	0
261	Acid Soluble Manganese (0.05%)	0472	0.0500	0.0000	0.0537	0.0062	0.0037	50	-0.60	261.30	0
261	Acid Soluble Manganese (0.05%)	0231	0.0500	0.0000	0.0537	0.0062	0.0037	50	-0.60	261.31	0
261	Acid Soluble Manganese (0.05%)	0234	0.0500	0.0000	0.0537	0.0062	0.0037	50	-0.60	261.31	0
261	Acid Soluble Manganese (0.05%)	0023	0.0500	0.0000	0.0537	0.0062	0.0037	50	-0.60	261.35	0
261	Acid Soluble Manganese (0.05%)	0136	0.0500	0.0000	0.0537	0.0062	0.0037	50	-0.60	261.35	0
261	Acid Soluble Manganese (0.05%)	0095	0.0500	0.0000	0.0537	0.0062	0.0037	50	-0.60	261.99	0
261	Acid Soluble Manganese (0.05%)	0389	0.0500	0.0000	0.0537	0.0062	0.0037	50	-0.60	261.99	0
261	Acid Soluble Manganese (0.05%)	0481	0.0500	0.0000	0.0537	0.0062	0.0037	50	-0.60	261.99	0
261	Acid Soluble Manganese (0.05%)	0519	0.0500	0.0000	0.0537	0.0062	0.0037	50	-0.60	261.99	0
261	Acid Soluble Manganese (0.05%)	0560	0.0506	0.0003	0.0537	0.0062	0.0037	50	-0.51	261.99	0
261	Acid Soluble Manganese (0.05%)	0540	0.0515	0.0010	0.0537	0.0062	0.0037	50	-0.35	261.12	0
261	Acid Soluble Manganese (0.05%)	0524	0.0518	0.0124	0.0537	0.0062	0.0037	50	-0.31	261.99	0
261	Acid Soluble Manganese (0.05%)	0550	0.0522	0.0004	0.0537	0.0062	0.0037	50	-0.24	261.11	0
261	Acid Soluble Manganese (0.05%)	0444	0.0525	0.0010	0.0537	0.0062	0.0037	50	-0.19	261.30	0
261	Acid Soluble Manganese (0.05%)	0106	0.0525	0.0196	0.0537	0.0062	0.0037	50	-0.19	261.35	0
261	Acid Soluble Manganese (0.05%)	0255	0.0525	0.0090	0.0537	0.0062	0.0037	50	-0.19	261.99	0
261	Acid Soluble Manganese (0.05%)	0117	0.0535	0.0076	0.0537	0.0062	0.0037	50	-0.03	261.35	0
261	Acid Soluble Manganese (0.05%)	0526	0.0536	0.0000	0.0537	0.0062	0.0037	50	-0.02	261.15	0
261	Acid Soluble Manganese (0.05%)	0532	0.0549	0.0006	0.0537	0.0062	0.0037	50	0.19	261.99	0
261	Acid Soluble Manganese (0.05%)	0034	0.0550	0.0080	0.0537	0.0062	0.0037	50	0.21	261.35	0
261	Acid Soluble Manganese (0.05%)	0371	0.0550	0.0100	0.0537	0.0062	0.0037	50	0.21	261.32	0
261	Acid Soluble Manganese (0.05%)	0043	0.0550	0.0100	0.0537	0.0062	0.0037	50	0.21	261.35	0
261	Acid Soluble Manganese (0.05%)	0055	0.0550	0.0100	0.0537	0.0062	0.0037	50	0.21	261.35	0
261	Acid Soluble Manganese (0.05%)	0324	0.0570	0.0160	0.0537	0.0062	0.0037	50	0.53	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 (0.05%)	0220	0.0580	0.0000	0.0537	0.0062	0.0037	50	0.70	261.32	0
261	Acid Soluble Manganese (0.05%)	0029	0.0583	0.0001	0.0537	0.0062	0.0037	50	0.74	261.12	0
261	Acid Soluble Manganese (0.05%)	0360	0.0590	0.0040	0.0537	0.0062	0.0037	50	0.86	261.31	0
261	Acid Soluble Manganese (0.05%)	0482	0.0600	0.0000	0.0537	0.0062	0.0037	50	1.02	261.31	0
261	Acid Soluble Manganese (0.05%)	0486	0.0600	0.0000	0.0537	0.0062	0.0037	50	1.02	261.35	0
261	Acid Soluble Manganese (0.05%)	0520	0.0600	0.0000	0.0537	0.0062	0.0037	50	1.02	261.99	0
261	Acid Soluble Manganese (0.05%)	0086	0.0604	0.0127	0.0537	0.0062	0.0037	50	1.08	261.33	0
261	Acid Soluble Manganese (0.05%)	0546	0.0604	0.0019	0.0537	0.0062	0.0037	50	1.08	261.35	0
261	Acid Soluble Manganese (0.05%)	0040	0.0605	0.0030	0.0537	0.0062	0.0037	50	1.10	261.12	0
261	Acid Soluble Manganese (0.05%)	0390	0.0615	0.0021	0.0537	0.0062	0.0037	50	1.25	261.30	0
261	Acid Soluble Manganese (0.05%)	0521	0.0617	0.0000	0.0537	0.0062	0.0037	50	1.29	261.34	0
261	Acid Soluble Manganese (0.05%)	0523	0.06450‡	0.0050	0.0537	0.0062	0.0037	50	1.75	261.99	0
261	Acid Soluble Manganese (0.05%)	0037	0.06700‡	0.0100	0.0537	0.0062	0.0037	50	2.15	261.35	0
261	Acid Soluble Manganese (0.05%)	0096	0.06915‡	0.0009	0.0537	0.0062	0.0037	50	2.50	261.30	0
261	Acid Soluble Manganese (0.05%)	0555	0.08000‡	0.0000	0.0537	0.0062	0.0037	50	4.25	261.32	0
261	Acid Soluble Manganese (0.05%)	0552	0.4650‡	0.2900	0.0537	0.0062	0.0037	50	66.50	261.32	2
271	Water Soluble Manganese (%)	0543	0.0360	0.0040	0.0478	0.0103	0.0050	3	-1.15	271.30	0
271	Water Soluble Manganese (%)	0356	0.0530	0.0100	0.0478	0.0103	0.0050	3	0.50	271.00	0
271	Water Soluble Manganese (%)	0553	0.0545	0.0010	0.0478	0.0103	0.0050	3	0.65	271.00	0
281	Acid Soluble Mercury (ppm)	0394	0.0017	0.0004				2		281.30	0
281	Acid Soluble Mercury (ppm)	0519	0.0200	0.0000				2		281.99	0
281	Acid Soluble Mercury (ppm)	0515	0.0000	0.0000				2		281.30	4
281	Acid Soluble Mercury (ppm)	0527	< 0.0001					2		281.30	5
281	Acid Soluble Mercury (ppm)	0550	< 0.0019					2		281.00	5
281	Acid Soluble Mercury (ppm)	0220	< 0.01					2		281.99	5
281	Acid Soluble Mercury (ppm)	0117	< 0.2					2		281.00	5
281	Acid Soluble Mercury (ppm)	0481	< 0.5					2		281.99	5
281	Acid Soluble Mercury (ppm)	0526	< 60					2		281.00	5
289	Acid Soluble Molybdenum (5ppm)	0106	0.00025†	0.0001	3.920	2.614	0.4095	19	-1.50	289.33	0
289	Acid Soluble Molybdenum (5ppm)	0543	0.05050†	0.0330	3.920	2.614	0.4095	19	-1.48	289.33	0
289	Acid Soluble Molybdenum (5ppm)	0516	1.500†	1.000	3.920	2.614	0.4095	19	-0.93	289.30	0
289	Acid Soluble Molybdenum (5ppm)	0102	2.300	0.2000	3.920	2.614	0.4095	19	-0.62	289.30	0
289	Acid Soluble Molybdenum (5ppm)	0527	2.450	0.0100	3.920	2.614	0.4095	19	-0.56	289.33	0
289	Acid Soluble Molybdenum (5ppm)	0524	2.667	0.6240	3.920	2.614	0.4095	19	-0.48	289.30	0
289	Acid Soluble Molybdenum (5ppm)	0394	2.800	0.6000	3.920	2.614	0.4095	19	-0.43	289.32	0
289	Acid Soluble Molybdenum (5ppm)	0550	3.080	0.0800	3.920	2.614	0.4095	19	-0.32	289.00	0
289	Acid Soluble Molybdenum (5ppm)	0086	3.187	0.0152	3.920	2.614	0.4095	19	-0.28	289.33	0
289	Acid Soluble Molybdenum (5ppm)	0049	3.195	1.210	3.920	2.614	0.4095	19	-0.28	289.30	0
289	Acid Soluble Molybdenum (5ppm)	0486	4.000	0.0000	3.920	2.614	0.4095	19	0.03	289.33	0
289	Acid Soluble Molybdenum (5ppm)	0136	4.500	0.0000	3.920	2.614	0.4095	19	0.22	289.33	0
289	Acid Soluble Molybdenum (5ppm)	0519	4.765	0.0700	3.920	2.614	0.4095	19	0.32	289.30	0
289	Acid Soluble Molybdenum (5ppm)	0546	5.600	2.438	3.920	2.614	0.4095	19	0.64	289.33	0
289	Acid Soluble Molybdenum (5ppm)	0220	6.200‡	0.4000	3.920	2.614	0.4095	19	0.87	289.32	0
289	Acid Soluble Molybdenum (5ppm)	0220	6.250‡	0.1000	3.920	2.614	0.4095	19	0.89	289.99	0
289	Acid Soluble Molybdenum (5ppm)	0234	6.500‡	1.000	3.920	2.614	0.4095	19	0.99	289.30	0
289	Acid Soluble Molybdenum (5ppm)	0096	7.600‡	0.0000	3.920	2.614	0.4095	19	1.41	289.30	0
289	Acid Soluble Molybdenum (5ppm)	0526	39.05‡	0.0000	3.920	2.614	0.4095	19	13.44	289.00	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				
289	Acid Soluble Molybdenum (5ppm)	0035	4.180	4.240	3.920	2.614	0.4095	19	0.10	289.30	1
289	Acid Soluble Molybdenum (5ppm)	0255	0.00000†	0.0000	3.920	2.614	0.4095	19		289.30	4
289	Acid Soluble Molybdenum (5ppm)	0515	0.00000†	0.0000	3.920	2.614	0.4095	19		289.33	4
289	Acid Soluble Molybdenum (5ppm)	0515	0.00000†	0.0000	3.920	2.614	0.4095	19		289.34	4
289	Acid Soluble Molybdenum (5ppm)	0027	< 0.002		3.920	2.614	0.4095	19		289.30	5
289	Acid Soluble Molybdenum (5ppm)	0117	< 5		3.920	2.614	0.4095	19		289.33	5
289	Acid Soluble Molybdenum (5ppm)	0481	< 62.5		3.920	2.614	0.4095	19		289.99	5
291	Acid Soluble Nickel (ppm)	0444	1.165	0.0100	1.617	0.3476	0.2031	13	-1.30	291.30	0
291	Acid Soluble Nickel (ppm)	0389	1.251	0.0300	1.617	0.3476	0.2031	13	-1.05	291.30	0
291	Acid Soluble Nickel (ppm)	0524	1.303	0.0624	1.617	0.3476	0.2031	13	-0.90	291.30	0
291	Acid Soluble Nickel (ppm)	0482	1.460	0.0200	1.617	0.3476	0.2031	13	-0.45	291.30	0
291	Acid Soluble Nickel (ppm)	0086	1.468	0.1454	1.617	0.3476	0.2031	13	-0.43	291.33	0
291	Acid Soluble Nickel (ppm)	0096	1.500	0.0000	1.617	0.3476	0.2031	13	-0.34	291.30	0
291	Acid Soluble Nickel (ppm)	0527	1.501	0.1000	1.617	0.3476	0.2031	13	-0.33	291.33	0
291	Acid Soluble Nickel (ppm)	0394	1.700	0.0600	1.617	0.3476	0.2031	13	0.24	291.30	0
291	Acid Soluble Nickel (ppm)	0519	1.745	0.0100	1.617	0.3476	0.2031	13	0.37	291.99	0
291	Acid Soluble Nickel (ppm)	0037	1.787	0.0430	1.617	0.3476	0.2031	13	0.49	291.33	0
291	Acid Soluble Nickel (ppm)	0450	2.000	0.0000	1.617	0.3476	0.2031	13	1.10	291.30	0
291	Acid Soluble Nickel (ppm)	0220	2.000	0.6000	1.617	0.3476	0.2031	13	1.10	291.99	0
291	Acid Soluble Nickel (ppm)	0035	3.290	1.560	1.617	0.3476	0.2031	13	4.81	291.30	0
291	Acid Soluble Nickel (ppm)	0255	30.94	24.95	1.617	0.3476	0.2031	13	84.34	291.99	2
291	Acid Soluble Nickel (ppm)	0515	0.0000	0.0000	1.617	0.3476	0.2031	13		291.33	4
291	Acid Soluble Nickel (ppm)	0515	0.0000	0.0000	1.617	0.3476	0.2031	13		291.34	4
291	Acid Soluble Nickel (ppm)	0027	< 0.002		1.617	0.3476	0.2031	13		291.30	5
291	Acid Soluble Nickel (ppm)	0555	< 0.5		1.617	0.3476	0.2031	13		291.30	5
291	Acid Soluble Nickel (ppm)	0550	< 0.6		1.617	0.3476	0.2031	13		291.00	5
291	Acid Soluble Nickel (ppm)	0117	< 5		1.617	0.3476	0.2031	13		291.33	5
291	Acid Soluble Nickel (ppm)	0481	< 10		1.617	0.3476	0.2031	13		291.99	5
301	Acid Soluble Selenium (ppm)	0519	0.0100	0.0000	0.3953	0.3650	0.1710	4	-0.89	301.99	0
301	Acid Soluble Selenium (ppm)	0220	0.2000	0.0000	0.3953	0.3650	0.1710	4	-0.45	301.99	0
301	Acid Soluble Selenium (ppm)	0255	0.5360	0.1940	0.3953	0.3650	0.1710	4	0.33	301.99	0
301	Acid Soluble Selenium (ppm)	0524	0.8350	0.4900	0.3953	0.3650	0.1710	4	1.02	301.30	0
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	0.3953	0.3650	0.1710	4		301.33	4
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	0.3953	0.3650	0.1710	4		301.34	4
301	Acid Soluble Selenium (ppm)	0527	< 0.001		0.3953	0.3650	0.1710	4		301.33	5
301	Acid Soluble Selenium (ppm)	0027	< 0.002		0.3953	0.3650	0.1710	4		301.30	5
301	Acid Soluble Selenium (ppm)	0550	< 0.08		0.3953	0.3650	0.1710	4		301.00	5
301	Acid Soluble Selenium (ppm)	0555	< 0.5		0.3953	0.3650	0.1710	4		301.30	5
301	Acid Soluble Selenium (ppm)	0481	< 0.5		0.3953	0.3650	0.1710	4		301.99	5
311	Sodium (%)	0482	0.0400	0.0000	0.0447	0.0051	0.0039	6	-0.83	311.99	0
311	Sodium (%)	0527	0.0408	0.0003	0.0447	0.0051	0.0039	6	-0.70	311.33	0
311	Sodium (%)	0086	0.0438	0.0083	0.0447	0.0051	0.0039	6	-0.17	311.33	0
311	Sodium (%)	0096	0.0450	0.0000	0.0447	0.0051	0.0039	6	0.05	311.99	0
311	Sodium (%)	0035	0.0465	0.0050	0.0447	0.0051	0.0039	6	0.31	311.33	0
311	Sodium (%)	0034	0.0680	0.0100	0.0447	0.0051	0.0039	6	4.08	311.33	0
321	Acid Soluble Zinc (0.05%)	0561	0.03000†	0.0000	0.0488	0.0083	0.0099	53	-2.26	321.33	0
321	Acid Soluble Zinc (0.05%)	0516	0.03000†	0.0000	0.0488	0.0083	0.0099	53	-2.26	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 (0.05%)	0524	0.03255†	0.0157	0.0488	0.0083	0.0099	53	-1.95	321.99	0
321	Acid Soluble Zinc (0.05%)	0377	0.03300†	0.0020	0.0488	0.0083	0.0099	53	-1.90	321.30	0
321	Acid Soluble Zinc (0.05%)	0023	0.0400	0.0000	0.0488	0.0083	0.0099	53	-1.06	321.30	0
321	Acid Soluble Zinc (0.05%)	0102	0.0400	0.0000	0.0488	0.0083	0.0099	53	-1.06	321.30	0
321	Acid Soluble Zinc (0.05%)	0231	0.0400	0.0000	0.0488	0.0083	0.0099	53	-1.06	321.30	0
321	Acid Soluble Zinc (0.05%)	0292	0.0400	0.0000	0.0488	0.0083	0.0099	53	-1.06	321.30	0
321	Acid Soluble Zinc (0.05%)	0472	0.0400	0.0000	0.0488	0.0083	0.0099	53	-1.06	321.30	0
321	Acid Soluble Zinc (0.05%)	0482	0.0400	0.0000	0.0488	0.0083	0.0099	53	-1.06	321.30	0
321	Acid Soluble Zinc (0.05%)	0389	0.0400	0.0000	0.0488	0.0083	0.0099	53	-1.06	321.99	0
321	Acid Soluble Zinc (0.05%)	0049	0.0410	0.0019	0.0488	0.0083	0.0099	53	-0.94	321.30	0
321	Acid Soluble Zinc (0.05%)	0035	0.0418	0.0089	0.0488	0.0083	0.0099	53	-0.85	321.30	0
321	Acid Soluble Zinc (0.05%)	0106	0.0420	0.0218	0.0488	0.0083	0.0099	53	-0.82	321.33	0
321	Acid Soluble Zinc (0.05%)	0515	0.0443	0.0046	0.0488	0.0083	0.0099	53	-0.54	321.99	0
321	Acid Soluble Zinc (0.05%)	0550	0.0447	0.0000	0.0488	0.0083	0.0099	53	-0.49	321.00	0
321	Acid Soluble Zinc (0.05%)	0117	0.0450	0.0049	0.0488	0.0083	0.0099	53	-0.46	321.33	0
321	Acid Soluble Zinc (0.05%)	0371	0.0450	0.0100	0.0488	0.0083	0.0099	53	-0.46	321.30	0
321	Acid Soluble Zinc (0.05%)	0481	0.0450	0.0020	0.0488	0.0083	0.0099	53	-0.46	321.99	0
321	Acid Soluble Zinc (0.05%)	0027	0.0470	0.0080	0.0488	0.0083	0.0099	53	-0.22	321.99	0
321	Acid Soluble Zinc (0.05%)	0220	0.0485	0.0010	0.0488	0.0083	0.0099	53	-0.04	321.32	0
321	Acid Soluble Zinc (0.05%)	0324	0.0495	0.0110	0.0488	0.0083	0.0099	53	0.08	321.30	0
321	Acid Soluble Zinc (0.05%)	0040	0.0500	0.0060	0.0488	0.0083	0.0099	53	0.14	321.00	0
321	Acid Soluble Zinc (0.05%)	0498	0.0500	0.0000	0.0488	0.0083	0.0099	53	0.14	321.00	0
321	Acid Soluble Zinc (0.05%)	0095	0.0500	0.0000	0.0488	0.0083	0.0099	53	0.14	321.30	0
321	Acid Soluble Zinc (0.05%)	0234	0.0500	0.0000	0.0488	0.0083	0.0099	53	0.14	321.30	0
321	Acid Soluble Zinc (0.05%)	0433	0.0500	0.0000	0.0488	0.0083	0.0099	53	0.14	321.30	0
321	Acid Soluble Zinc (0.05%)	0034	0.0500	0.0080	0.0488	0.0083	0.0099	53	0.14	321.33	0
321	Acid Soluble Zinc (0.05%)	0043	0.0500	0.0000	0.0488	0.0083	0.0099	53	0.14	321.33	0
321	Acid Soluble Zinc (0.05%)	0055	0.0500	0.0000	0.0488	0.0083	0.0099	53	0.14	321.33	0
321	Acid Soluble Zinc (0.05%)	0136	0.0500	0.0000	0.0488	0.0083	0.0099	53	0.14	321.33	0
321	Acid Soluble Zinc (0.05%)	0421	0.0500	0.0000	0.0488	0.0083	0.0099	53	0.14	321.33	0
321	Acid Soluble Zinc (0.05%)	0486	0.0500	0.0000	0.0488	0.0083	0.0099	53	0.14	321.33	0
321	Acid Soluble Zinc (0.05%)	0535	0.0505	0.0010	0.0488	0.0083	0.0099	53	0.20	321.00	0
321	Acid Soluble Zinc (0.05%)	0540	0.0505	0.0010	0.0488	0.0083	0.0099	53	0.20	321.00	0
321	Acid Soluble Zinc (0.05%)	0360	0.0507	0.0047	0.0488	0.0083	0.0099	53	0.22	321.30	0
321	Acid Soluble Zinc (0.05%)	0394	0.0510	0.0012	0.0488	0.0083	0.0099	53	0.26	321.32	0
321	Acid Soluble Zinc (0.05%)	0390	0.0511	0.0015	0.0488	0.0083	0.0099	53	0.27	321.30	0
321	Acid Soluble Zinc (0.05%)	0527	0.0515	0.0017	0.0488	0.0083	0.0099	53	0.32	321.33	0
321	Acid Soluble Zinc (0.05%)	0523	0.0515	0.0030	0.0488	0.0083	0.0099	53	0.32	321.99	0
321	Acid Soluble Zinc (0.05%)	0086	0.0524	0.0115	0.0488	0.0083	0.0099	53	0.43	321.33	0
321	Acid Soluble Zinc (0.05%)	0255	0.0530	0.0120	0.0488	0.0083	0.0099	53	0.50	321.30	0
321	Acid Soluble Zinc (0.05%)	0519	0.0550	0.0100	0.0488	0.0083	0.0099	53	0.74	321.99	0
321	Acid Soluble Zinc (0.05%)	0037	0.0585	0.0110	0.0488	0.0083	0.0099	53	1.16	321.33	0
321	Acid Soluble Zinc (0.05%)	0096	0.0587	0.0003	0.0488	0.0083	0.0099	53	1.18	321.30	0
321	Acid Soluble Zinc (0.05%)	0521	0.05880‡	0.0000	0.0488	0.0083	0.0099	53	1.20	321.32	0
321	Acid Soluble Zinc (0.05%)	0534	0.05900‡	0.0000	0.0488	0.0083	0.0099	53	1.22	321.00	0
321	Acid Soluble Zinc (0.05%)	0444	0.05900‡	0.0000	0.0488	0.0083	0.0099	53	1.22	321.30	0
321	Acid Soluble Zinc (0.05%)	0520	0.06500‡	0.0100	0.0488	0.0083	0.0099	53	1.94	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 (0.05%)	0515	0.07995‡	0.0601	0.0488	0.0083	0.0099	53	3.74	321.33	0
321	Acid Soluble Zinc (0.05%)	0532	0.1422‡	0.0203	0.0488	0.0083	0.0099	53	11.21	321.99	0
321	Acid Soluble Zinc (0.05%)	0526	0.1472‡	0.0000	0.0488	0.0083	0.0099	53	11.81	321.03	0
321	Acid Soluble Zinc (0.05%)	0552	1.075‡	0.2700	0.0488	0.0083	0.0099	53	123.18	321.30	0
321	Acid Soluble Zinc (0.05%)	0450	500.5‡	19.00	0.0488	0.0083	0.0099	53	60071.04	321.30	2
325	Water Soluble Zinc (%)	0543	0.0350	0.0060	0.0518	0.0043	0.0017	10	-3.61	325.30	0
325	Water Soluble Zinc (%)	0553	0.0495	0.0010	0.0518	0.0043	0.0017	10	-0.50	325.00	0
325	Water Soluble Zinc (%)	0540	0.0500	0.0000	0.0518	0.0043	0.0017	10	-0.40	325.00	0
325	Water Soluble Zinc (%)	0444	0.0500	0.0020	0.0518	0.0043	0.0017	10	-0.40	325.30	0
325	Water Soluble Zinc (%)	0560	0.0503	0.0004	0.0518	0.0043	0.0017	10	-0.33	325.99	0
325	Water Soluble Zinc (%)	0535	0.0505	0.0010	0.0518	0.0043	0.0017	10	-0.29	325.00	0
325	Water Soluble Zinc (%)	0394	0.0532	0.0016	0.0518	0.0043	0.0017	10	0.29	325.30	0
325	Water Soluble Zinc (%)	0027	0.0550	0.0020	0.0518	0.0043	0.0017	10	0.68	325.00	0
325	Water Soluble Zinc (%)	0546	0.0563	0.0026	0.0518	0.0043	0.0017	10	0.95	325.30	0
325	Water Soluble Zinc (%)	0555	0.0700	0.0000	0.0518	0.0043	0.0017	10	3.89	325.30	0
325	Water Soluble Zinc (%)	0356	0.0940	0.0660	0.0518	0.0043	0.0017	10	9.04	325.00	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 95%). Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier, 3 = removed from stats, 4 = rejected due to 0s submitted and 5 = LOD. A 9 flag indicates a data problem - scores not calculated. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are grey and included for information only. Your offset values are higher (‡) or lower (†) than the Robust Analyte value ± Investigational Allowance. 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.