

# magruder fertilizer

## check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 190511

Grade 16-1-0

### Statistical Summary

# Analytes: 35

# Labs Reporting: 98

Issue Date : 06/30/2019

Analyte Code	Analyte Sample # 190511	# 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 (%)	35	34	15.89	0.6881	15.89		0.6956	0.1491	4.38%		0.1728	2.64%
003	Water Insoluble Nitrogen (%)	8	8	0.9951	0.2358	0.9951		0.2674	0.1182	26.87%		0.1813	4.00%
009	Ammoniacal Plus Nitrate Nitrogen (%)	1		14.95									
010	Total Nitrogen (16%)	88	87	17.27	0.5813	17.36	0.6904	0.3927	0.0526	2.26%	1.33	0.1349	2.60%
020	Total Phosphorus as P2O5 (%)	50	47	1.301	0.1470	1.309		0.1291	0.0235	9.86%		0.0296	3.84%
030	Citrate Insoluble Phosphorus as P2O5 (%)	2	2	0.7425	0.9086								
040	Indirect Available Phosphorus as P2O5 (1%)	3	2	1.318	0.1308	1.318	0.6700	0.1308	0.1156	9.93%	0.45	0.0150	3.84%
041	Direct Available Phosphorus as P2O5 (1%)	45	44	1.213	0.2900	1.216	0.6700	0.1322	0.0249	10.87%	0.46	0.0459	3.88%
042	Water Soluble OrthoP as P2O5 (%)	1		0.0150									
048	Water Soluble Phosphorus as P2O5 (%)	3	2	0.7150	0.8980	0.7150		0.8980	0.7938	125.60%		0.0400	4.21%
050	Soluble Potassium as K2O (%)	24	22	0.3774	0.1171	0.4067	0.4100	0.0503	0.0134	12.36%	0.29	0.0231	4.58%
060	Water (Free) (%)	9	9	1.105	0.2237	1.105		0.2537	0.1057	22.96%		0.1120	3.94%
101	Acid Soluble Calcium (%)	17	17	0.3710	0.1290	0.3664	0.2183	0.0966	0.0293	26.36%	1.03	0.0182	4.65%
121	Acid Soluble Magnesium (%)	18	17	0.1443	0.0287	0.1422	0.2071	0.0269	0.0082	18.95%	0.30	0.0063	5.36%
131	Water Soluble Magnesium (%)	1		0.1200									
143	Elemental Sulfur (%)	7	6	15.90	7.574	18.35		2.044	1.043	11.14%		0.2198	2.58%
145	Sulfate Sulfur, HCl soluble (%)	9	9	19.40	0.5085	19.40		0.5766	0.2402	2.97%		0.2046	2.56%
148	Total Sulfur (20%)	48	46	19.17	1.044	19.21	1.0000	0.7595	0.1400	3.95%	1.77	0.2776	2.56%
149	Sulfur - HNO3 soluble (%)	4	4	19.37	0.7126	19.37		0.7126	0.4453	3.68%		0.2584	2.56%
151	Acid Soluble Arsenic (ppm)	17	9	0.6687	0.4010	0.6592		0.4334	0.1806	65.75%		0.0627	17.03%
165	Acid Soluble Boron (%)	6	4	0.0026	0.0028	0.0026	0.0034	0.0028	0.0018	106.76%	1.93	0.0002	9.78%
181	Acid Soluble Cadmium (ppm)	18	10	0.2384	0.2735	0.1733		0.1077	0.0426	62.14%		0.0059	20.82%
191	Acid Soluble Chromium (ppm)	24	21	9.792	2.046	9.933		1.985	0.5416	19.99%		0.7661	11.32%
202	Acid Soluble Cobalt (ppm)	23	19	4.708	3.640	4.107	2.2321	1.497	0.4293	36.45%	1.56	0.0822	12.93%
221	Acid Soluble Copper (%)	38	35	0.0059	0.0015	0.0055	0.0056	0.0009	0.0002	15.53%	0.36	0.0003	8.74%
241	Acid Soluble Iron (%)	23	22	1.139	0.0753	1.138	0.1188	0.0744	0.0198	6.54%	1.46	0.0376	3.92%
251	Acid Soluble Lead (ppm)	19	14	1.570	0.8104	1.448		0.3976	0.1328	27.46%		0.1975	15.13%
261	Acid Soluble Manganese (%)	13	11	0.0043	0.0020	0.0039	0.0054	0.0005	0.0002	12.94%	0.22	0.0001	9.23%
281	Acid Soluble Mercury (ppm)	8	5	0.0699	0.0459	0.0699		0.0459	0.0256	65.56%		0.0021	23.87%
289	Acid Soluble Molybdenum (ppm)	17	14	2.838	2.290	2.581	1.7742	1.990	0.6649	77.13%	2.61	0.3185	13.87%
291	Acid Soluble Nickel (ppm)	25	23	6.654	2.242	6.360		1.475	0.3846	23.20%		0.4880	12.11%
301	Acid Soluble Selenium (ppm)	15	8	0.6162	0.2722	0.6477		0.2304	0.1018	35.57%		0.1175	17.08%
311	Sodium (%)	6	6	0.0774	0.0093	0.0760	0.0126	0.0071	0.0036	9.36%	1.32	0.0070	5.89%

Analyte Code	Analyte Sample # 190511	# 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
321	Acid Soluble Zinc (%)	41	37	3.036	18.40	0.0109	0.0061	0.0011	0.0002	10.38%	0.43	0.0314	7.90%
325	Water Soluble Zinc (%)	1		0.0129									

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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Sample # 190511

Grade 16-1-0

### Lab Values

# Analytes: 35

# Labs Reporting: 98

Issue Date : 06/30/2019

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 (%)	0560	14.47	0.1900	15.89	0.6956	0.1728	34	-2.05	001.99	0
001	Ammoniacal Nitrogen (%)	0559	14.61	0.3900	15.89	0.6956	0.1728	34	-1.85	001.99	0
001	Ammoniacal Nitrogen (%)	0520	14.67	0.2400	15.89	0.6956	0.1728	34	-1.76	001.99	0
001	Ammoniacal Nitrogen (%)	0498	15.00	0.4000	15.89	0.6956	0.1728	34	-1.28	001.10	0
001	Ammoniacal Nitrogen (%)	0536	15.04	0.0300	15.89	0.6956	0.1728	34	-1.23	001.99	0
001	Ammoniacal Nitrogen (%)	0538	15.08	0.0500	15.89	0.6956	0.1728	34	-1.18	001.99	0
001	Ammoniacal Nitrogen (%)	0537	15.09	0.2100	15.89	0.6956	0.1728	34	-1.16	001.99	0
001	Ammoniacal Nitrogen (%)	0309	15.18	0.0100	15.89	0.6956	0.1728	34	-1.03	001.10	0
001	Ammoniacal Nitrogen (%)	0456	15.43	0.0500	15.89	0.6956	0.1728	34	-0.67	001.10	0
001	Ammoniacal Nitrogen (%)	0444	15.62	0.3000	15.89	0.6956	0.1728	34	-0.39	001.10	0
001	Ammoniacal Nitrogen (%)	0481	15.69	0.5000	15.89	0.6956	0.1728	34	-0.29	001.10	0
001	Ammoniacal Nitrogen (%)	0451	15.78	0.2700	15.89	0.6956	0.1728	34	-0.17	001.10	0
001	Ammoniacal Nitrogen (%)	0231	15.80	0.4000	15.89	0.6956	0.1728	34	-0.13	001.10	0
001	Ammoniacal Nitrogen (%)	0027	15.84	0.0970	15.89	0.6956	0.1728	34	-0.08	001.99	0
001	Ammoniacal Nitrogen (%)	0556	15.88	0.1500	15.89	0.6956	0.1728	34	-0.03	001.99	0
001	Ammoniacal Nitrogen (%)	0546	15.91	0.0040	15.89	0.6956	0.1728	34	0.02	001.99	0
001	Ammoniacal Nitrogen (%)	0526	15.94	0.1562	15.89	0.6956	0.1728	34	0.07	001.10	0
001	Ammoniacal Nitrogen (%)	0476	16.09	0.1600	15.89	0.6956	0.1728	34	0.28	001.99	0
001	Ammoniacal Nitrogen (%)	0532	16.15	0.1100	15.89	0.6956	0.1728	34	0.36	001.99	0
001	Ammoniacal Nitrogen (%)	0136	16.16	0.0100	15.89	0.6956	0.1728	34	0.38	001.10	0
001	Ammoniacal Nitrogen (%)	0522	16.19	0.0300	15.89	0.6956	0.1728	34	0.42	001.99	0
001	Ammoniacal Nitrogen (%)	0527	16.20	0.2000	15.89	0.6956	0.1728	34	0.44	001.99	0
001	Ammoniacal Nitrogen (%)	0544	16.21	0.0600	15.89	0.6956	0.1728	34	0.45	001.99	0
001	Ammoniacal Nitrogen (%)	0405	16.28	0.0700	15.89	0.6956	0.1728	34	0.55	001.99	0
001	Ammoniacal Nitrogen (%)	0420	16.28	0.2100	15.89	0.6956	0.1728	34	0.55	001.99	0
001	Ammoniacal Nitrogen (%)	0255	16.28	0.3400	15.89	0.6956	0.1728	34	0.56	001.99	0
001	Ammoniacal Nitrogen (%)	0096	16.33	0.0400	15.89	0.6956	0.1728	34	0.63	001.99	0
001	Ammoniacal Nitrogen (%)	0423	16.38	0.2500	15.89	0.6956	0.1728	34	0.69	001.99	0
001	Ammoniacal Nitrogen (%)	0510	16.38	0.0468	15.89	0.6956	0.1728	34	0.70	001.99	0
001	Ammoniacal Nitrogen (%)	0545	16.38	0.0400	15.89	0.6956	0.1728	34	0.70	001.99	0
001	Ammoniacal Nitrogen (%)	0549	16.50	0.1000	15.89	0.6956	0.1728	34	0.87	001.99	0
001	Ammoniacal Nitrogen (%)	0524	17.02	0.0495	15.89	0.6956	0.1728	34	1.63	001.99	0
001	Ammoniacal Nitrogen (%)	0550	17.09	0.6100	15.89	0.6956	0.1728	34	1.71	001.99	0
001	Ammoniacal Nitrogen (%)	0506	17.25	0.1000	15.89	0.6956	0.1728	34	1.95	001.99	0
001	Ammoniacal Nitrogen (%)	0117	15.50	1.000	15.89	0.6956	0.1728	34	-0.57	001.10	1
003	Water Insoluble Nitrogen (%)	0309	0.6400	0.0600	0.9951	0.2674	0.1813	8	-1.21	003.10	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				
003	Water Insoluble Nitrogen (%)	0506	0.7045	0.0450	0.9951	0.2674	0.1813	8	-0.99	003.99	0
003	Water Insoluble Nitrogen (%)	0520	0.9400	0.4000	0.9951	0.2674	0.1813	8	-0.19	003.99	0
003	Water Insoluble Nitrogen (%)	0526	0.9562	0.5650	0.9951	0.2674	0.1813	8	-0.13	003.10	0
003	Water Insoluble Nitrogen (%)	0532	1.055	0.0500	0.9951	0.2674	0.1813	8	0.20	003.99	0
003	Water Insoluble Nitrogen (%)	0476	1.125	0.0500	0.9951	0.2674	0.1813	8	0.44	003.99	0
003	Water Insoluble Nitrogen (%)	0136	1.235	0.0300	0.9951	0.2674	0.1813	8	0.82	003.10	0
003	Water Insoluble Nitrogen (%)	0451	1.305	0.2500	0.9951	0.2674	0.1813	8	1.06	003.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0518	14.95	0.3000				1		009.99	0
010	Total Nitrogen (16%)	0498	15.00†	0.4000	17.36	0.3927	0.1349	87	-6.01	010.12	0
010	Total Nitrogen (16%)	0520	15.61†	0.1600	17.36	0.3927	0.1349	87	-4.46	010.99	0
010	Total Nitrogen (16%)	0533	15.64†	0.0700	17.36	0.3927	0.1349	87	-4.40	010.11	0
010	Total Nitrogen (16%)	0553	15.93†	0.5500	17.36	0.3927	0.1349	87	-3.66	010.99	0
010	Total Nitrogen (16%)	0309	15.95†	0.0800	17.36	0.3927	0.1349	87	-3.59	010.11	0
010	Total Nitrogen (16%)	0538	16.11†	0.0800	17.36	0.3927	0.1349	87	-3.19	010.99	0
010	Total Nitrogen (16%)	0532	16.20†	0.1600	17.36	0.3927	0.1349	87	-2.96	010.99	0
010	Total Nitrogen (16%)	0537	16.21†	0.2600	17.36	0.3927	0.1349	87	-2.93	010.99	0
010	Total Nitrogen (16%)	0456	16.43†	0.0500	17.36	0.3927	0.1349	87	-2.38	010.11	0
010	Total Nitrogen (16%)	0510	16.51†	0.0027	17.36	0.3927	0.1349	87	-2.16	010.11	0
010	Total Nitrogen (16%)	0534	16.55†	0.1000	17.36	0.3927	0.1349	87	-2.07	010.99	0
010	Total Nitrogen (16%)	0368	16.64†	0.1470	17.36	0.3927	0.1349	87	-1.83	010.60	0
010	Total Nitrogen (16%)	0546	16.66†	0.0500	17.36	0.3927	0.1349	87	-1.80	010.11	0
010	Total Nitrogen (16%)	0559	16.72	0.2200	17.36	0.3927	0.1349	87	-1.63	010.99	0
010	Total Nitrogen (16%)	0117	16.90	0.6000	17.36	0.3927	0.1349	87	-1.17	010.12	0
010	Total Nitrogen (16%)	0493	16.92	0.1000	17.36	0.3927	0.1349	87	-1.12	010.60	0
010	Total Nitrogen (16%)	0544	16.96	0.0600	17.36	0.3927	0.1349	87	-1.02	010.11	0
010	Total Nitrogen (16%)	0234	17.00	0.0000	17.36	0.3927	0.1349	87	-0.92	010.60	0
010	Total Nitrogen (16%)	0420	17.11	0.1800	17.36	0.3927	0.1349	87	-0.64	010.99	0
010	Total Nitrogen (16%)	0105	17.12	0.1200	17.36	0.3927	0.1349	87	-0.61	010.11	0
010	Total Nitrogen (16%)	0300	17.15	0.5000	17.36	0.3927	0.1349	87	-0.54	010.16	0
010	Total Nitrogen (16%)	0493	17.15	0.1000	17.36	0.3927	0.1349	87	-0.54	010.99	0
010	Total Nitrogen (16%)	0555	17.18	0.3700	17.36	0.3927	0.1349	87	-0.47	010.60	0
010	Total Nitrogen (16%)	0481	17.21	0.2200	17.36	0.3927	0.1349	87	-0.38	010.99	0
010	Total Nitrogen (16%)	0472	17.22	0.0400	17.36	0.3927	0.1349	87	-0.36	010.60	0
010	Total Nitrogen (16%)	0476	17.22	0.2200	17.36	0.3927	0.1349	87	-0.36	010.99	0
010	Total Nitrogen (16%)	0521	17.24	0.0000	17.36	0.3927	0.1349	87	-0.30	010.60	0
010	Total Nitrogen (16%)	0018	17.25	0.1000	17.36	0.3927	0.1349	87	-0.28	010.60	0
010	Total Nitrogen (16%)	0405	17.28	0.0300	17.36	0.3927	0.1349	87	-0.22	010.60	0
010	Total Nitrogen (16%)	0292	17.29	0.0100	17.36	0.3927	0.1349	87	-0.19	010.60	0
010	Total Nitrogen (16%)	0525	17.31	0.3100	17.36	0.3927	0.1349	87	-0.14	010.60	0
010	Total Nitrogen (16%)	0527	17.33	0.0140	17.36	0.3927	0.1349	87	-0.07	010.60	0
010	Total Nitrogen (16%)	0416	17.34	0.0200	17.36	0.3927	0.1349	87	-0.05	010.12	0
010	Total Nitrogen (16%)	0231	17.36	0.0200	17.36	0.3927	0.1349	87	0.00	010.60	0
010	Total Nitrogen (16%)	0027	17.36	0.0280	17.36	0.3927	0.1349	87	0.01	010.99	0
010	Total Nitrogen (16%)	0452	17.38	0.0700	17.36	0.3927	0.1349	87	0.04	010.60	0
010	Total Nitrogen (16%)	0513	17.38	0.0800	17.36	0.3927	0.1349	87	0.05	010.99	0
010	Total Nitrogen (16%)	0037	17.39	0.0460	17.36	0.3927	0.1349	87	0.07	010.60	0
010	Total Nitrogen (16%)	0501	17.40	0.2170	17.36	0.3927	0.1349	87	0.10	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 (16%)	0324	17.40	0.2000	17.36	0.3927	0.1349	87	0.10	010.60	0
010	Total Nitrogen (16%)	0482	17.40	0.0000	17.36	0.3927	0.1349	87	0.10	010.60	0
010	Total Nitrogen (16%)	0169	17.40	0.0780	17.36	0.3927	0.1349	87	0.11	010.60	0
010	Total Nitrogen (16%)	0486	17.41	0.0500	17.36	0.3927	0.1349	87	0.11	010.60	0
010	Total Nitrogen (16%)	0086	17.41	0.0160	17.36	0.3927	0.1349	87	0.12	010.60	0
010	Total Nitrogen (16%)	0114	17.42	0.0300	17.36	0.3927	0.1349	87	0.14	010.60	0
010	Total Nitrogen (16%)	0389	17.43	0.0500	17.36	0.3927	0.1349	87	0.16	010.60	0
010	Total Nitrogen (16%)	0423	17.44	0.2000	17.36	0.3927	0.1349	87	0.20	010.60	0
010	Total Nitrogen (16%)	0106	17.45	0.0500	17.36	0.3927	0.1349	87	0.21	010.60	0
010	Total Nitrogen (16%)	0325	17.45	0.5000	17.36	0.3927	0.1349	87	0.23	010.60	0
010	Total Nitrogen (16%)	0049	17.45	0.1200	17.36	0.3927	0.1349	87	0.23	010.60	0
010	Total Nitrogen (16%)	0444	17.47	0.2800	17.36	0.3927	0.1349	87	0.28	010.60	0
010	Total Nitrogen (16%)	0561	17.48	0.0300	17.36	0.3927	0.1349	87	0.29	010.60	0
010	Total Nitrogen (16%)	0035	17.49	0.0500	17.36	0.3927	0.1349	87	0.32	010.60	0
010	Total Nitrogen (16%)	0136	17.49	0.0800	17.36	0.3927	0.1349	87	0.33	010.60	0
010	Total Nitrogen (16%)	0096	17.50	0.0500	17.36	0.3927	0.1349	87	0.34	010.60	0
010	Total Nitrogen (16%)	0371	17.50	0.0200	17.36	0.3927	0.1349	87	0.35	010.99	0
010	Total Nitrogen (16%)	0422	17.51	0.0200	17.36	0.3927	0.1349	87	0.38	010.60	0
010	Total Nitrogen (16%)	0483	17.51	0.0400	17.36	0.3927	0.1349	87	0.38	010.60	0
010	Total Nitrogen (16%)	0131	17.52	0.0250	17.36	0.3927	0.1349	87	0.40	010.60	0
010	Total Nitrogen (16%)	0177	17.54	0.0300	17.36	0.3927	0.1349	87	0.44	010.60	0
010	Total Nitrogen (16%)	0451	17.54	0.2600	17.36	0.3927	0.1349	87	0.46	010.60	0
010	Total Nitrogen (16%)	0040	17.55	0.1000	17.36	0.3927	0.1349	87	0.48	010.60	0
010	Total Nitrogen (16%)	0523	17.55	0.1000	17.36	0.3927	0.1349	87	0.48	010.60	0
010	Total Nitrogen (16%)	0055	17.56	0.0800	17.36	0.3927	0.1349	87	0.51	010.60	0
010	Total Nitrogen (16%)	0105	17.56	0.1100	17.36	0.3927	0.1349	87	0.51	010.60	0
010	Total Nitrogen (16%)	0377	17.57	0.0300	17.36	0.3927	0.1349	87	0.52	010.60	0
010	Total Nitrogen (16%)	0043	17.58	0.0700	17.36	0.3927	0.1349	87	0.54	010.60	0
010	Total Nitrogen (16%)	0360	17.58	0.0700	17.36	0.3927	0.1349	87	0.54	010.60	0
010	Total Nitrogen (16%)	0095	17.59	0.0800	17.36	0.3927	0.1349	87	0.58	010.60	0
010	Total Nitrogen (16%)	0307	17.59	0.0800	17.36	0.3927	0.1349	87	0.58	010.60	0
010	Total Nitrogen (16%)	0421	17.67	0.1300	17.36	0.3927	0.1349	87	0.77	010.60	0
010	Total Nitrogen (16%)	0025	17.69	0.0200	17.36	0.3927	0.1349	87	0.84	010.60	0
010	Total Nitrogen (16%)	0042	17.70	0.4000	17.36	0.3927	0.1349	87	0.86	010.60	0
010	Total Nitrogen (16%)	0117	17.70	0.0000	17.36	0.3927	0.1349	87	0.86	010.60	0
010	Total Nitrogen (16%)	0354	17.70	0.0000	17.36	0.3927	0.1349	87	0.86	010.60	0
010	Total Nitrogen (16%)	0485	17.70	0.2390	17.36	0.3927	0.1349	87	0.86	010.60	0
010	Total Nitrogen (16%)	0542	17.74	0.0400	17.36	0.3927	0.1349	87	0.97	010.60	0
010	Total Nitrogen (16%)	0029	17.76	0.0500	17.36	0.3927	0.1349	87	1.00	010.60	0
010	Total Nitrogen (16%)	0402	17.79	0.3000	17.36	0.3927	0.1349	87	1.09	010.60	0
010	Total Nitrogen (16%)	0524	17.88	0.0497	17.36	0.3927	0.1349	87	1.31	010.99	0
010	Total Nitrogen (16%)	0550	17.88	0.0400	17.36	0.3927	0.1349	87	1.32	010.60	0
010	Total Nitrogen (16%)	0420	17.94	0.1100	17.36	0.3927	0.1349	87	1.46	010.60	0
010	Total Nitrogen (16%)	0506	17.95	0.1000	17.36	0.3927	0.1349	87	1.50	010.99	0
010	Total Nitrogen (16%)	0547	17.98	0.5600	17.36	0.3927	0.1349	87	1.58	010.60	0
010	Total Nitrogen (16%)	0230	18.00	0.0000	17.36	0.3927	0.1349	87	1.63	010.60	0
010	Total Nitrogen (16%)	0023	18.19‡	0.1900	17.36	0.3927	0.1349	87	2.10	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 (16%)	0255	18.19‡	0.8280	17.36	0.3927	0.1349	87	2.12	010.60	0
010	Total Nitrogen (16%)	0526	15.66†	3.237	17.36	0.3927	0.1349	87	-4.33	010.17	1
020	Total Phosphorus as P2O5 (%)	0292	0.9550	0.0100	1.309	0.1291	0.0296	47	-2.75	020.20	0
020	Total Phosphorus as P2O5 (%)	0456	0.9600	0.0400	1.309	0.1291	0.0296	47	-2.71	020.40	0
020	Total Phosphorus as P2O5 (%)	0506	0.9670	0.0400	1.309	0.1291	0.0296	47	-2.65	020.20	0
020	Total Phosphorus as P2O5 (%)	0234	1.000	0.0000	1.309	0.1291	0.0296	47	-2.40	020.50	0
020	Total Phosphorus as P2O5 (%)	0049	1.155	0.0300	1.309	0.1291	0.0296	47	-1.20	020.10	0
020	Total Phosphorus as P2O5 (%)	0035	1.170	0.0800	1.309	0.1291	0.0296	47	-1.08	020.40	0
020	Total Phosphorus as P2O5 (%)	0422	1.185	0.0300	1.309	0.1291	0.0296	47	-0.96	020.50	0
020	Total Phosphorus as P2O5 (%)	0521	1.190	0.0000	1.309	0.1291	0.0296	47	-0.92	020.50	0
020	Total Phosphorus as P2O5 (%)	0493	1.200	0.1000	1.309	0.1291	0.0296	47	-0.85	020.10	0
020	Total Phosphorus as P2O5 (%)	0472	1.205	0.0100	1.309	0.1291	0.0296	47	-0.81	020.50	0
020	Total Phosphorus as P2O5 (%)	0553	1.220	0.0000	1.309	0.1291	0.0296	47	-0.69	020.20	0
020	Total Phosphorus as P2O5 (%)	0501	1.225	0.0900	1.309	0.1291	0.0296	47	-0.65	020.50	0
020	Total Phosphorus as P2O5 (%)	0027	1.230	0.0400	1.309	0.1291	0.0296	47	-0.62	020.20	0
020	Total Phosphorus as P2O5 (%)	0513	1.245	0.0100	1.309	0.1291	0.0296	47	-0.50	020.99	0
020	Total Phosphorus as P2O5 (%)	0255	1.246	0.0000	1.309	0.1291	0.0296	47	-0.49	020.50	0
020	Total Phosphorus as P2O5 (%)	0476	1.250	0.0000	1.309	0.1291	0.0296	47	-0.46	020.20	0
020	Total Phosphorus as P2O5 (%)	0481	1.255	0.0100	1.309	0.1291	0.0296	47	-0.42	020.20	0
020	Total Phosphorus as P2O5 (%)	0526	1.263	0.0000	1.309	0.1291	0.0296	47	-0.36	020.20	0
020	Total Phosphorus as P2O5 (%)	0389	1.265	0.0100	1.309	0.1291	0.0296	47	-0.34	020.50	0
020	Total Phosphorus as P2O5 (%)	0177	1.278	0.0065	1.309	0.1291	0.0296	47	-0.25	020.20	0
020	Total Phosphorus as P2O5 (%)	0515	1.282	0.0327	1.309	0.1291	0.0296	47	-0.21	020.99	0
020	Total Phosphorus as P2O5 (%)	0559	1.285	0.0300	1.309	0.1291	0.0296	47	-0.19	020.99	0
020	Total Phosphorus as P2O5 (%)	0416	1.290	0.0000	1.309	0.1291	0.0296	47	-0.15	020.20	0
020	Total Phosphorus as P2O5 (%)	0231	1.310	0.0200	1.309	0.1291	0.0296	47	0.00	020.50	0
020	Total Phosphorus as P2O5 (%)	0524	1.323	0.0818	1.309	0.1291	0.0296	47	0.11	020.50	0
020	Total Phosphorus as P2O5 (%)	0451	1.325	0.0700	1.309	0.1291	0.0296	47	0.12	020.50	0
020	Total Phosphorus as P2O5 (%)	0368	1.325	0.0404	1.309	0.1291	0.0296	47	0.12	020.50	0
020	Total Phosphorus as P2O5 (%)	0546	1.336	0.0040	1.309	0.1291	0.0296	47	0.21	020.50	0
020	Total Phosphorus as P2O5 (%)	0444	1.345	0.0100	1.309	0.1291	0.0296	47	0.28	020.50	0
020	Total Phosphorus as P2O5 (%)	0510	1.352	0.0337	1.309	0.1291	0.0296	47	0.33	020.20	0
020	Total Phosphorus as P2O5 (%)	0433	1.360	0.0000	1.309	0.1291	0.0296	47	0.39	020.50	0
020	Total Phosphorus as P2O5 (%)	0547	1.360	0.0200	1.309	0.1291	0.0296	47	0.39	020.50	0
020	Total Phosphorus as P2O5 (%)	0423	1.365	0.0300	1.309	0.1291	0.0296	47	0.43	020.50	0
020	Total Phosphorus as P2O5 (%)	0402	1.375	0.0300	1.309	0.1291	0.0296	47	0.51	020.50	0
020	Total Phosphorus as P2O5 (%)	0482	1.375	0.0900	1.309	0.1291	0.0296	47	0.51	020.50	0
020	Total Phosphorus as P2O5 (%)	0523	1.400	0.0000	1.309	0.1291	0.0296	47	0.70	020.50	0
020	Total Phosphorus as P2O5 (%)	0527	1.408	0.0067	1.309	0.1291	0.0296	47	0.77	020.50	0
020	Total Phosphorus as P2O5 (%)	0525	1.409	0.0260	1.309	0.1291	0.0296	47	0.77	020.50	0
020	Total Phosphorus as P2O5 (%)	0542	1.415	0.0700	1.309	0.1291	0.0296	47	0.82	020.50	0
020	Total Phosphorus as P2O5 (%)	0096	1.420	0.0000	1.309	0.1291	0.0296	47	0.86	020.40	0
020	Total Phosphorus as P2O5 (%)	0483	1.430	0.0800	1.309	0.1291	0.0296	47	0.93	020.50	0
020	Total Phosphorus as P2O5 (%)	0522	1.490	0.0200	1.309	0.1291	0.0296	47	1.40	020.20	0
020	Total Phosphorus as P2O5 (%)	0405	1.505	0.0300	1.309	0.1291	0.0296	47	1.52	020.20	0
020	Total Phosphorus as P2O5 (%)	0371	1.510	0.0000	1.309	0.1291	0.0296	47	1.55	020.20	0
020	Total Phosphorus as P2O5 (%)	0324	1.545	0.1300	1.309	0.1291	0.0296	47	1.83	020.20	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
020	Total Phosphorus as P2O5 (%)	0534	1.570	0.0000	1.309	0.1291	0.0296	47	2.02	020.20	0
020	Total Phosphorus as P2O5 (%)	0309	1.585	0.0300	1.309	0.1291	0.0296	47	2.14	020.20	0
020	Total Phosphorus as P2O5 (%)	0555	0.9510	0.2928	1.309	0.1291	0.0296	47	-2.78	020.50	1
020	Total Phosphorus as P2O5 (%)	0550	1.435	0.2500	1.309	0.1291	0.0296	47	0.97	020.20	1
020	Total Phosphorus as P2O5 (%)	0420	< 1		1.309	0.1291	0.0296	47		020.20	5
030	Citrate Insoluble Phosphorus as P2O5 (%)	0405	0.1000	0.0000				2		030.20	0
030	Citrate Insoluble Phosphorus as P2O5 (%)	0096	1.385	0.0700				2		030.40	0
040	Indirect Available Phosphorus as P2O5 (1%)	0561	1.225	0.0100				2		040.20	0
040	Indirect Available Phosphorus as P2O5 (1%)	0405	1.410	0.0200				2		040.20	0
040	Indirect Available Phosphorus as P2O5 (1%)	0096	0.03500†	0.0700				2		040.40	4
041	Direct Available Phosphorus as P2O5 (1%)	0230	0.2700†	0.0200	1.216	0.1322	0.0459	44	-7.16	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0498	0.5150†	0.0100	1.216	0.1322	0.0459	44	-5.30	041.20	0
041	Direct Available Phosphorus as P2O5 (1%)	0518	0.8150	0.1300	1.216	0.1322	0.0459	44	-3.03	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0537	1.014	0.0320	1.216	0.1322	0.0459	44	-1.53	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0533	1.020	0.0800	1.216	0.1322	0.0459	44	-1.48	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0472	1.045	0.0300	1.216	0.1322	0.0459	44	-1.29	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0538	1.060	0.0400	1.216	0.1322	0.0459	44	-1.18	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0037	1.088	0.1880	1.216	0.1322	0.0459	44	-0.97	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0532	1.110	0.0400	1.216	0.1322	0.0459	44	-0.80	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0027	1.130	0.0200	1.216	0.1322	0.0459	44	-0.65	041.20	0
041	Direct Available Phosphorus as P2O5 (1%)	0040	1.150	0.1000	1.216	0.1322	0.0459	44	-0.50	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0549	1.150	0.1000	1.216	0.1322	0.0459	44	-0.50	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0560	1.150	0.1200	1.216	0.1322	0.0459	44	-0.50	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0086	1.153	0.0101	1.216	0.1322	0.0459	44	-0.47	041.10	0
041	Direct Available Phosphorus as P2O5 (1%)	0368	1.155	0.0091	1.216	0.1322	0.0459	44	-0.46	041.50	0
041	Direct Available Phosphorus as P2O5 (1%)	0423	1.175	0.0300	1.216	0.1322	0.0459	44	-0.31	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0513	1.180	0.0400	1.216	0.1322	0.0459	44	-0.27	041.11	0
041	Direct Available Phosphorus as P2O5 (1%)	0231	1.195	0.1300	1.216	0.1322	0.0459	44	-0.16	041.50	0
041	Direct Available Phosphorus as P2O5 (1%)	0325	1.200	0.0000	1.216	0.1322	0.0459	44	-0.12	041.50	0
041	Direct Available Phosphorus as P2O5 (1%)	0354	1.210	0.0200	1.216	0.1322	0.0459	44	-0.04	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0485	1.217	0.0044	1.216	0.1322	0.0459	44	0.01	041.11	0
041	Direct Available Phosphorus as P2O5 (1%)	0043	1.220	0.1000	1.216	0.1322	0.0459	44	0.03	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0377	1.225	0.0300	1.216	0.1322	0.0459	44	0.07	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0055	1.240	0.1000	1.216	0.1322	0.0459	44	0.18	041.10	0
041	Direct Available Phosphorus as P2O5 (1%)	0544	1.245	0.0100	1.216	0.1322	0.0459	44	0.22	041.21	0
041	Direct Available Phosphorus as P2O5 (1%)	0072	1.245	0.0520	1.216	0.1322	0.0459	44	0.22	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0106	1.250	0.0400	1.216	0.1322	0.0459	44	0.26	041.21	0
041	Direct Available Phosphorus as P2O5 (1%)	0520	1.250	0.0200	1.216	0.1322	0.0459	44	0.26	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0405	1.260	0.0400	1.216	0.1322	0.0459	44	0.34	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0095	1.265	0.0900	1.216	0.1322	0.0459	44	0.37	041.40	0
041	Direct Available Phosphorus as P2O5 (1%)	0486	1.285	0.0300	1.216	0.1322	0.0459	44	0.52	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0117	1.290	0.0040	1.216	0.1322	0.0459	44	0.56	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0018	1.295	0.0300	1.216	0.1322	0.0459	44	0.60	041.40	0
041	Direct Available Phosphorus as P2O5 (1%)	0233	1.299	0.0520	1.216	0.1322	0.0459	44	0.63	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0029	1.300	0.0400	1.216	0.1322	0.0459	44	0.64	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0360	1.325	0.0300	1.216	0.1322	0.0459	44	0.83	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0536	1.330	0.0400	1.216	0.1322	0.0459	44	0.87	041.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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041	Direct Available Phosphorus as P2O5 (1%)	0452	1.335	0.0300	1.216	0.1322	0.0459	44	0.90	041.50	0
041	Direct Available Phosphorus as P2O5 (1%)	0421	1.355	0.0100	1.216	0.1322	0.0459	44	1.05	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0023	1.360	0.0800	1.216	0.1322	0.0459	44	1.09	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0055	1.430	0.0000	1.216	0.1322	0.0459	44	1.62	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0131	1.513	0.0020	1.216	0.1322	0.0459	44	2.25	041.50	0
041	Direct Available Phosphorus as P2O5 (1%)	0522	1.650	0.0067	1.216	0.1322	0.0459	44	3.29	041.21	0
041	Direct Available Phosphorus as P2O5 (1%)	0545	2.415‡	0.0300	1.216	0.1322	0.0459	44	9.08	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0041	1.150	0.2800	1.216	0.1322	0.0459	44	-0.50	041.10	1
042	Water Soluble OrthoP as P2O5 (%)	0553	0.0150	0.0100				1		042.10	0
048	Water Soluble Phosphorus as P2O5 (%)	0096	0.0800	0.0200				2		048.40	0
048	Water Soluble Phosphorus as P2O5 (%)	0556	1.350	0.0600				2		048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0420	< 1					2		048.20	5
050	Soluble Potassium as K2O (%)	0055	0.0550	0.0100	0.4067	0.0503	0.0231	22	-7.00	050.00	0
050	Soluble Potassium as K2O (%)	0456	0.0900	0.0200	0.4067	0.0503	0.0231	22	-6.30	050.61	0
050	Soluble Potassium as K2O (%)	0472	0.1750	0.0300	0.4067	0.0503	0.0231	22	-4.61	050.31	0
050	Soluble Potassium as K2O (%)	0452	0.3550	0.0100	0.4067	0.0503	0.0231	22	-1.03	050.51	0
050	Soluble Potassium as K2O (%)	0420	0.3669	0.0020	0.4067	0.0503	0.0231	22	-0.79	050.50	0
050	Soluble Potassium as K2O (%)	0547	0.3700	0.0000	0.4067	0.0503	0.0231	22	-0.73	050.51	0
050	Soluble Potassium as K2O (%)	0055	0.3800	0.0000	0.4067	0.0503	0.0231	22	-0.53	050.50	0
050	Soluble Potassium as K2O (%)	0136	0.4050	0.0100	0.4067	0.0503	0.0231	22	-0.03	050.30	0
050	Soluble Potassium as K2O (%)	0354	0.4090	0.0420	0.4067	0.0503	0.0231	22	0.05	050.52	0
050	Soluble Potassium as K2O (%)	0360	0.4100	0.0000	0.4067	0.0503	0.0231	22	0.07	050.52	0
050	Soluble Potassium as K2O (%)	0096	0.4100	0.0000	0.4067	0.0503	0.0231	22	0.07	050.99	0
050	Soluble Potassium as K2O (%)	0546	0.4150	0.0220	0.4067	0.0503	0.0231	22	0.17	050.99	0
050	Soluble Potassium as K2O (%)	0524	0.4234	0.0004	0.4067	0.0503	0.0231	22	0.33	050.99	0
050	Soluble Potassium as K2O (%)	0525	0.4257	0.0344	0.4067	0.0503	0.0231	22	0.38	050.99	0
050	Soluble Potassium as K2O (%)	0423	0.4275	0.0030	0.4067	0.0503	0.0231	22	0.41	050.52	0
050	Soluble Potassium as K2O (%)	0482	0.4300	0.0000	0.4067	0.0503	0.0231	22	0.46	050.99	0
050	Soluble Potassium as K2O (%)	0368	0.4315	0.0052	0.4067	0.0503	0.0231	22	0.49	050.51	0
050	Soluble Potassium as K2O (%)	0527	0.4321	0.0071	0.4067	0.0503	0.0231	22	0.51	050.99	0
050	Soluble Potassium as K2O (%)	0451	0.4475	0.0210	0.4067	0.0503	0.0231	22	0.81	050.99	0
050	Soluble Potassium as K2O (%)	0389	0.4500	0.0000	0.4067	0.0503	0.0231	22	0.86	050.99	0
050	Soluble Potassium as K2O (%)	0542	0.4950	0.0900	0.4067	0.0503	0.0231	22	1.76	050.99	0
050	Soluble Potassium as K2O (%)	0325	0.5000	0.2000	0.4067	0.0503	0.0231	22	1.86	050.99	0
050	Soluble Potassium as K2O (%)	0483	0.7750	0.3100	0.4067	0.0503	0.0231	22	7.33	050.51	1
050	Soluble Potassium as K2O (%)	0556	0.0000	0.0000	0.4067	0.0503	0.0231	22		050.99	4
060	Water (Free) (%)	0518	0.8450	0.0100	1.105	0.2537	0.1120	9	-0.95	060.30	0
060	Water (Free) (%)	0510	0.8577	0.0030	1.105	0.2537	0.1120	9	-0.90	060.99	0
060	Water (Free) (%)	0416	0.9123	0.1152	1.105	0.2537	0.1120	9	-0.70	060.00	0
060	Water (Free) (%)	0055	1.000	0.2000	1.105	0.2537	0.1120	9	-0.38	060.30	0
060	Water (Free) (%)	0456	1.025	0.0500	1.105	0.2537	0.1120	9	-0.29	060.00	0
060	Water (Free) (%)	0096	1.200	0.3400	1.105	0.2537	0.1120	9	0.35	060.00	0
060	Water (Free) (%)	0055	1.360	0.2600	1.105	0.2537	0.1120	9	0.93	060.99	0
060	Water (Free) (%)	0513	1.370	0.0200	1.105	0.2537	0.1120	9	0.96	060.30	0
060	Water (Free) (%)	0513	1.375	0.0100	1.105	0.2537	0.1120	9	0.98	060.99	0
101	Acid Soluble Calcium (%)	0553	0.1000	0.0200	0.3664	0.0966	0.0182	17	-2.76	101.00	0
101	Acid Soluble Calcium (%)	0105	0.1945	0.0170	0.3664	0.0966	0.0182	17	-1.78	101.00	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				
101	Acid Soluble Calcium (%)	0420	0.2740	0.0074	0.3664	0.0966	0.0182	17	-0.96	101.30	0
101	Acid Soluble Calcium (%)	0472	0.3100	0.0000	0.3664	0.0966	0.0182	17	-0.58	101.30	0
101	Acid Soluble Calcium (%)	0106	0.3105	0.0776	0.3664	0.0966	0.0182	17	-0.58	101.33	0
101	Acid Soluble Calcium (%)	0035	0.3565	0.0510	0.3664	0.0966	0.0182	17	-0.10	101.30	0
101	Acid Soluble Calcium (%)	0368	0.3610	0.0017	0.3664	0.0966	0.0182	17	-0.06	101.99	0
101	Acid Soluble Calcium (%)	0482	0.3700	0.0000	0.3664	0.0966	0.0182	17	0.04	101.30	0
101	Acid Soluble Calcium (%)	0389	0.3700	0.0000	0.3664	0.0966	0.0182	17	0.04	101.99	0
101	Acid Soluble Calcium (%)	0096	0.3720	0.0060	0.3664	0.0966	0.0182	17	0.06	101.30	0
101	Acid Soluble Calcium (%)	0527	0.3820	0.0096	0.3664	0.0966	0.0182	17	0.16	101.33	0
101	Acid Soluble Calcium (%)	0423	0.3840	0.0040	0.3664	0.0966	0.0182	17	0.18	101.32	0
101	Acid Soluble Calcium (%)	0451	0.3860	0.0440	0.3664	0.0966	0.0182	17	0.20	101.30	0
101	Acid Soluble Calcium (%)	0354	0.3950	0.0100	0.3664	0.0966	0.0182	17	0.30	101.30	0
101	Acid Soluble Calcium (%)	0521	0.4927	0.0000	0.3664	0.0966	0.0182	17	1.31	101.32	0
101	Acid Soluble Calcium (%)	0483	0.6230	0.0060	0.3664	0.0966	0.0182	17	2.66	101.30	0
101	Acid Soluble Calcium (%)	0525	0.6265	0.0559	0.3664	0.0966	0.0182	17	2.69	101.33	0
121	Acid Soluble Magnesium (%)	0105	0.1065	0.0070	0.1422	0.0269	0.0063	17	-1.33	121.03	0
121	Acid Soluble Magnesium (%)	0105	0.1075	0.0130	0.1422	0.0269	0.0063	17	-1.29	121.00	0
121	Acid Soluble Magnesium (%)	0472	0.1150	0.0100	0.1422	0.0269	0.0063	17	-1.01	121.30	0
121	Acid Soluble Magnesium (%)	0420	0.1203	0.0037	0.1422	0.0269	0.0063	17	-0.82	121.30	0
121	Acid Soluble Magnesium (%)	0515	0.1235	0.0121	0.1422	0.0269	0.0063	17	-0.70	121.99	0
121	Acid Soluble Magnesium (%)	0515	0.1245	0.0246	0.1422	0.0269	0.0063	17	-0.66	121.33	0
121	Acid Soluble Magnesium (%)	0524	0.1305	0.0000	0.1422	0.0269	0.0063	17	-0.43	121.99	0
121	Acid Soluble Magnesium (%)	0354	0.1400	0.0000	0.1422	0.0269	0.0063	17	-0.08	121.30	0
121	Acid Soluble Magnesium (%)	0553	0.1500	0.0000	0.1422	0.0269	0.0063	17	0.29	121.00	0
121	Acid Soluble Magnesium (%)	0096	0.1500	0.0000	0.1422	0.0269	0.0063	17	0.29	121.30	0
121	Acid Soluble Magnesium (%)	0423	0.1500	0.0020	0.1422	0.0269	0.0063	17	0.29	121.32	0
121	Acid Soluble Magnesium (%)	0389	0.1505	0.0010	0.1422	0.0269	0.0063	17	0.31	121.99	0
121	Acid Soluble Magnesium (%)	0482	0.1550	0.0100	0.1422	0.0269	0.0063	17	0.47	121.30	0
121	Acid Soluble Magnesium (%)	0527	0.1662	0.0002	0.1422	0.0269	0.0063	17	0.89	121.33	0
121	Acid Soluble Magnesium (%)	0035	0.1690	0.0220	0.1422	0.0269	0.0063	17	0.99	121.30	0
121	Acid Soluble Magnesium (%)	0521	0.1766	0.0000	0.1422	0.0269	0.0063	17	1.28	121.32	0
121	Acid Soluble Magnesium (%)	0483	0.2185	0.0010	0.1422	0.0269	0.0063	17	2.83	121.30	0
121	Acid Soluble Magnesium (%)	0106	0.1596	0.0399	0.1422	0.0269	0.0063	17	0.64	121.33	1
131	Water Soluble Magnesium (%)	0553	0.1200	0.0000				1		131.00	0
143	Elemental Sulfur (%)	0405	0.5710	0.0920	18.35	2.044	0.2198	6	-7.75	143.00	0
143	Elemental Sulfur (%)	0472	17.15	0.1100	18.35	2.044	0.2198	6	-0.53	143.99	0
143	Elemental Sulfur (%)	0231	18.95	0.1000	18.35	2.044	0.2198	6	0.26	143.00	0
143	Elemental Sulfur (%)	0481	19.00	0.5600	18.35	2.044	0.2198	6	0.28	143.99	0
143	Elemental Sulfur (%)	0368	19.71	0.3170	18.35	2.044	0.2198	6	0.59	143.99	0
143	Elemental Sulfur (%)	0389	20.01	0.1400	18.35	2.044	0.2198	6	0.72	143.99	0
143	Elemental Sulfur (%)	0255	20.10	1.730	18.35	2.044	0.2198	6	0.76	143.99	1
145	Sulfate Sulfur, HCl soluble (%)	0106	18.77	0.0300	19.40	0.5766	0.2046	9	-1.01	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0444	18.92	0.2000	19.40	0.5766	0.2046	9	-0.77	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0544	19.03	0.0100	19.40	0.5766	0.2046	9	-0.60	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0485	19.21	0.0018	19.40	0.5766	0.2046	9	-0.31	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0522	19.23	0.0400	19.40	0.5766	0.2046	9	-0.27	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0405	19.36	0.0500	19.40	0.5766	0.2046	9	-0.07	145.00	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				
145	Sulfate Sulfur, HCl soluble (%)	0550	19.88	0.6100	19.40	0.5766	0.2046	9	0.76	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0027	20.05	0.0400	19.40	0.5766	0.2046	9	1.04	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0095	20.16	0.8600	19.40	0.5766	0.2046	9	1.22	145.00	0
148	Total Sulfur (20%)	0515	15.30†	0.4430	19.21	0.7595	0.2776	46	-5.14	148.07	0
148	Total Sulfur (20%)	0136	16.77†	0.4900	19.21	0.7595	0.2776	46	-3.22	148.00	0
148	Total Sulfur (20%)	0486	17.76†	0.1000	19.21	0.7595	0.2776	46	-1.91	148.07	0
148	Total Sulfur (20%)	0096	18.13†	0.0700	19.21	0.7595	0.2776	46	-1.42	148.99	0
148	Total Sulfur (20%)	0131	18.15†	0.1000	19.21	0.7595	0.2776	46	-1.39	148.00	0
148	Total Sulfur (20%)	0354	18.20†	1.000	19.21	0.7595	0.2776	46	-1.33	148.99	0
148	Total Sulfur (20%)	0433	18.24	0.1100	19.21	0.7595	0.2776	46	-1.28	148.99	0
148	Total Sulfur (20%)	0421	18.25	0.1000	19.21	0.7595	0.2776	46	-1.26	148.07	0
148	Total Sulfur (20%)	0292	18.28	0.2700	19.21	0.7595	0.2776	46	-1.23	148.07	0
148	Total Sulfur (20%)	0117	18.46	0.2030	19.21	0.7595	0.2776	46	-0.98	148.07	0
148	Total Sulfur (20%)	0023	18.54	0.0100	19.21	0.7595	0.2776	46	-0.88	148.07	0
148	Total Sulfur (20%)	0040	18.85	0.3000	19.21	0.7595	0.2776	46	-0.47	148.07	0
148	Total Sulfur (20%)	0546	18.87	0.3360	19.21	0.7595	0.2776	46	-0.44	148.07	0
148	Total Sulfur (20%)	0230	18.95	0.5000	19.21	0.7595	0.2776	46	-0.34	148.01	0
148	Total Sulfur (20%)	0371	19.07	0.2500	19.21	0.7595	0.2776	46	-0.19	148.99	0
148	Total Sulfur (20%)	0476	19.11	0.1500	19.21	0.7595	0.2776	46	-0.13	148.01	0
148	Total Sulfur (20%)	0025	19.12	0.1600	19.21	0.7595	0.2776	46	-0.11	148.00	0
148	Total Sulfur (20%)	0114	19.15	0.2200	19.21	0.7595	0.2776	46	-0.08	148.00	0
148	Total Sulfur (20%)	0177	19.19	0.0207	19.21	0.7595	0.2776	46	-0.02	148.07	0
148	Total Sulfur (20%)	0534	19.20	0.4000	19.21	0.7595	0.2776	46	-0.01	148.01	0
148	Total Sulfur (20%)	0444	19.22	0.3200	19.21	0.7595	0.2776	46	0.02	148.01	0
148	Total Sulfur (20%)	0037	19.23	0.9140	19.21	0.7595	0.2776	46	0.03	148.07	0
148	Total Sulfur (20%)	0521	19.25	0.0000	19.21	0.7595	0.2776	46	0.06	148.07	0
148	Total Sulfur (20%)	0513	19.29	0.0800	19.21	0.7595	0.2776	46	0.11	148.01	0
148	Total Sulfur (20%)	0233	19.30	0.1600	19.21	0.7595	0.2776	46	0.12	148.07	0
148	Total Sulfur (20%)	0506	19.30	0.0000	19.21	0.7595	0.2776	46	0.12	148.99	0
148	Total Sulfur (20%)	0029	19.33	0.6200	19.21	0.7595	0.2776	46	0.16	148.00	0
148	Total Sulfur (20%)	0527	19.41	0.4786	19.21	0.7595	0.2776	46	0.26	148.07	0
148	Total Sulfur (20%)	0523	19.45	0.1000	19.21	0.7595	0.2776	46	0.32	148.99	0
148	Total Sulfur (20%)	0029	19.50	0.0000	19.21	0.7595	0.2776	46	0.39	148.01	0
148	Total Sulfur (20%)	0553	19.50	0.0000	19.21	0.7595	0.2776	46	0.39	148.99	0
148	Total Sulfur (20%)	0482	19.60	0.4000	19.21	0.7595	0.2776	46	0.52	148.99	0
148	Total Sulfur (20%)	0555	19.67	0.7112	19.21	0.7595	0.2776	46	0.62	148.07	0
148	Total Sulfur (20%)	0055	19.68	0.1200	19.21	0.7595	0.2776	46	0.62	148.01	0
148	Total Sulfur (20%)	0560	19.73	0.2600	19.21	0.7595	0.2776	46	0.69	148.99	0
148	Total Sulfur (20%)	0422	19.74	0.8100	19.21	0.7595	0.2776	46	0.70	148.99	0
148	Total Sulfur (20%)	0043	19.77	0.4000	19.21	0.7595	0.2776	46	0.74	148.07	0
148	Total Sulfur (20%)	0525	19.77	0.1400	19.21	0.7595	0.2776	46	0.74	148.07	0
148	Total Sulfur (20%)	0520	19.81	0.0300	19.21	0.7595	0.2776	46	0.79	148.99	0
148	Total Sulfur (20%)	0049	19.89	0.1380	19.21	0.7595	0.2776	46	0.89	148.00	0
148	Total Sulfur (20%)	0405	19.93	0.1300	19.21	0.7595	0.2776	46	0.95	148.01	0
148	Total Sulfur (20%)	0561	20.08	0.0100	19.21	0.7595	0.2776	46	1.14	148.01	0
148	Total Sulfur (20%)	0402	20.12	0.3000	19.21	0.7595	0.2776	46	1.20	148.07	0
148	Total Sulfur (20%)	0510	20.87‡	0.2428	19.21	0.7595	0.2776	46	2.19	148.01	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 (20%)	0526	21.20‡	0.5723	19.21	0.7595	0.2776	46	2.63	148.01	0
148	Total Sulfur (20%)	0451	21.80‡	0.6000	19.21	0.7595	0.2776	46	3.41	148.00	0
148	Total Sulfur (20%)	0483	18.20†	3.000	19.21	0.7595	0.2776	46	-1.33	148.07	1
148	Total Sulfur (20%)	0485	0.0000†	0.0000	19.21	0.7595	0.2776	46		148.01	4
149	Sulfur - HNO3 soluble (%)	0423	18.38	0.0500	19.37	0.7126	0.2584	4	-1.40	149.04	0
149	Sulfur - HNO3 soluble (%)	0524	19.36	0.6637	19.37	0.7126	0.2584	4	-0.02	149.04	0
149	Sulfur - HNO3 soluble (%)	0518	19.80	0.2000	19.37	0.7126	0.2584	4	0.60	149.02	0
149	Sulfur - HNO3 soluble (%)	0501	19.96	0.1200	19.37	0.7126	0.2584	4	0.82	149.04	0
151	Acid Soluble Arsenic (ppm)	0255	0.3470	0.0440	0.6592	0.4334	0.0627	9	-0.72	151.30	0
151	Acid Soluble Arsenic (ppm)	0519	0.3650	0.0100	0.6592	0.4334	0.0627	9	-0.68	151.99	0
151	Acid Soluble Arsenic (ppm)	0550	0.3655	0.0070	0.6592	0.4334	0.0627	9	-0.68	151.00	0
151	Acid Soluble Arsenic (ppm)	0086	0.4673	0.0175	0.6592	0.4334	0.0627	9	-0.44	151.30	0
151	Acid Soluble Arsenic (ppm)	0389	0.5498	0.0954	0.6592	0.4334	0.0627	9	-0.25	151.30	0
151	Acid Soluble Arsenic (ppm)	0136	0.5780	0.0900	0.6592	0.4334	0.0627	9	-0.19	151.33	0
151	Acid Soluble Arsenic (ppm)	0476	0.6439	0.0435	0.6592	0.4334	0.0627	9	-0.04	151.99	0
151	Acid Soluble Arsenic (ppm)	0527	1.307	0.1866	0.6592	0.4334	0.0627	9	1.50	151.33	0
151	Acid Soluble Arsenic (ppm)	0524	1.395	0.0700	0.6592	0.4334	0.0627	9	1.70	151.30	0
151	Acid Soluble Arsenic (ppm)	0368	4.343	0.4916	0.6592	0.4334	0.0627	9	8.50	151.34	1
151	Acid Soluble Arsenic (ppm)	0555	0.0000	0.0000	0.6592	0.4334	0.0627	9		151.30	4
151	Acid Soluble Arsenic (ppm)	0515	0.0000	0.0000	0.6592	0.4334	0.0627	9		151.33	4
151	Acid Soluble Arsenic (ppm)	0515	0.0000	0.0000	0.6592	0.4334	0.0627	9		151.34	4
151	Acid Soluble Arsenic (ppm)	0027	< 0.002		0.6592	0.4334	0.0627	9		151.30	5
151	Acid Soluble Arsenic (ppm)	0481	< 0.5		0.6592	0.4334	0.0627	9		151.99	5
151	Acid Soluble Arsenic (ppm)	0405	< 1		0.6592	0.4334	0.0627	9		151.30	5
151	Acid Soluble Arsenic (ppm)	0117	< 10		0.6592	0.4334	0.0627	9		151.33	5
165	Acid Soluble Boron (%)	0423	0.0010	0.0000	0.0026	0.0028	0.0002	4	-0.49	165.99	0
165	Acid Soluble Boron (%)	0483	0.0012	0.0006	0.0026	0.0028	0.0002	4	-0.43	165.99	0
165	Acid Soluble Boron (%)	0524	0.0015	0.0000	0.0026	0.0028	0.0002	4	-0.34	165.99	0
165	Acid Soluble Boron (%)	0527	0.0069	0.0003	0.0026	0.0028	0.0002	4	1.27	165.99	0
165	Acid Soluble Boron (%)	0515	0.0000	0.0000	0.0026	0.0028	0.0002	4		165.99	4
165	Acid Soluble Boron (%)	0354	< 0.01		0.0026	0.0028	0.0002	4		165.30	5
181	Acid Soluble Cadmium (ppm)	0519	0.0750	0.0100	0.1733	0.1077	0.0059	10	-0.91	181.99	0
181	Acid Soluble Cadmium (ppm)	0506	0.0825	0.0010	0.1733	0.1077	0.0059	10	-0.84	181.99	0
181	Acid Soluble Cadmium (ppm)	0476	0.1084	0.0047	0.1733	0.1077	0.0059	10	-0.60	181.99	0
181	Acid Soluble Cadmium (ppm)	0550	0.1170	0.0140	0.1733	0.1077	0.0059	10	-0.52	181.00	0
181	Acid Soluble Cadmium (ppm)	0136	0.1315	0.0110	0.1733	0.1077	0.0059	10	-0.39	181.33	0
181	Acid Soluble Cadmium (ppm)	0405	0.1350	0.0100	0.1733	0.1077	0.0059	10	-0.36	181.30	0
181	Acid Soluble Cadmium (ppm)	0389	0.1720	0.0000	0.1733	0.1077	0.0059	10	-0.01	181.30	0
181	Acid Soluble Cadmium (ppm)	0523	0.2840	0.0040	0.1733	0.1077	0.0059	10	1.03	181.30	0
181	Acid Soluble Cadmium (ppm)	0524	0.2930	0.0041	0.1733	0.1077	0.0059	10	1.11	181.30	0
181	Acid Soluble Cadmium (ppm)	0521	0.9860	0.0000	0.1733	0.1077	0.0059	10	7.55	181.32	0
181	Acid Soluble Cadmium (ppm)	0255	0.0580	0.0320	0.1733	0.1077	0.0059	10	-1.07	181.30	1
181	Acid Soluble Cadmium (ppm)	0555	0.0000	0.0000	0.1733	0.1077	0.0059	10		181.30	4
181	Acid Soluble Cadmium (ppm)	0527	< 0.0001		0.1733	0.1077	0.0059	10		181.33	5
181	Acid Soluble Cadmium (ppm)	0027	< 0.002		0.1733	0.1077	0.0059	10		181.30	5
181	Acid Soluble Cadmium (ppm)	0526	< 0.0028		0.1733	0.1077	0.0059	10		181.00	5
181	Acid Soluble Cadmium (ppm)	0368	< 0.05		0.1733	0.1077	0.0059	10		181.34	5

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				
181	Acid Soluble Cadmium (ppm)	0481	< 0.5		0.1733	0.1077	0.0059	10		181.99	5
181	Acid Soluble Cadmium (ppm)	0117	< 5		0.1733	0.1077	0.0059	10		181.33	5
191	Acid Soluble Chromium (ppm)	0526	5.004	2.125	9.933	1.985	0.7661	21	-2.48	191.00	0
191	Acid Soluble Chromium (ppm)	0519	6.010	0.0200	9.933	1.985	0.7661	21	-1.98	191.99	0
191	Acid Soluble Chromium (ppm)	0524	6.845	0.3100	9.933	1.985	0.7661	21	-1.56	191.30	0
191	Acid Soluble Chromium (ppm)	0368	8.453	0.5930	9.933	1.985	0.7661	21	-0.75	191.34	0
191	Acid Soluble Chromium (ppm)	0136	8.500	1.000	9.933	1.985	0.7661	21	-0.72	191.33	0
191	Acid Soluble Chromium (ppm)	0515	8.700	1.194	9.933	1.985	0.7661	21	-0.62	191.34	0
191	Acid Soluble Chromium (ppm)	0523	9.019	0.0560	9.933	1.985	0.7661	21	-0.46	191.30	0
191	Acid Soluble Chromium (ppm)	0521	9.432	0.0000	9.933	1.985	0.7661	21	-0.25	191.32	0
191	Acid Soluble Chromium (ppm)	0555	9.680	1.100	9.933	1.985	0.7661	21	-0.13	191.30	0
191	Acid Soluble Chromium (ppm)	0506	9.905	0.0300	9.933	1.985	0.7661	21	-0.01	191.99	0
191	Acid Soluble Chromium (ppm)	0405	10.00	0.0000	9.933	1.985	0.7661	21	0.03	191.30	0
191	Acid Soluble Chromium (ppm)	0096	10.20	1.600	9.933	1.985	0.7661	21	0.13	191.30	0
191	Acid Soluble Chromium (ppm)	0482	10.30	0.2000	9.933	1.985	0.7661	21	0.18	191.30	0
191	Acid Soluble Chromium (ppm)	0389	10.62	0.1300	9.933	1.985	0.7661	21	0.34	191.30	0
191	Acid Soluble Chromium (ppm)	0444	11.36	2.720	9.933	1.985	0.7661	21	0.72	191.30	0
191	Acid Soluble Chromium (ppm)	0550	11.61	1.350	9.933	1.985	0.7661	21	0.84	191.00	0
191	Acid Soluble Chromium (ppm)	0476	11.71	0.7889	9.933	1.985	0.7661	21	0.89	191.99	0
191	Acid Soluble Chromium (ppm)	0035	11.75	1.900	9.933	1.985	0.7661	21	0.91	191.30	0
191	Acid Soluble Chromium (ppm)	0527	11.76	0.2277	9.933	1.985	0.7661	21	0.92	191.33	0
191	Acid Soluble Chromium (ppm)	0037	11.84	0.0740	9.933	1.985	0.7661	21	0.96	191.33	0
191	Acid Soluble Chromium (ppm)	0515	12.94	0.6700	9.933	1.985	0.7661	21	1.52	191.33	0
191	Acid Soluble Chromium (ppm)	0027	< 0.002		9.933	1.985	0.7661	21		191.30	5
191	Acid Soluble Chromium (ppm)	0561	< 1		9.933	1.985	0.7661	21		191.30	5
191	Acid Soluble Chromium (ppm)	0481	< 20		9.933	1.985	0.7661	21		191.99	5
202	Acid Soluble Cobalt (ppm)	0519	0.1250	0.0100	4.107	1.497	0.0822	19	-2.66	202.99	0
202	Acid Soluble Cobalt (ppm)	0550	2.045	0.0100	4.107	1.497	0.0822	19	-1.38	202.33	0
202	Acid Soluble Cobalt (ppm)	0255	2.519	0.0220	4.107	1.497	0.0822	19	-1.06	202.99	0
202	Acid Soluble Cobalt (ppm)	0561	2.850	0.1000	4.107	1.497	0.0822	19	-0.84	202.30	0
202	Acid Soluble Cobalt (ppm)	0136	3.000	0.0000	4.107	1.497	0.0822	19	-0.74	202.33	0
202	Acid Soluble Cobalt (ppm)	0524	3.021	0.0749	4.107	1.497	0.0822	19	-0.73	202.30	0
202	Acid Soluble Cobalt (ppm)	0523	3.485	0.0530	4.107	1.497	0.0822	19	-0.42	202.30	0
202	Acid Soluble Cobalt (ppm)	0405	3.800	0.0000	4.107	1.497	0.0822	19	-0.21	202.30	0
202	Acid Soluble Cobalt (ppm)	0476	4.214	0.0617	4.107	1.497	0.0822	19	0.07	202.99	0
202	Acid Soluble Cobalt (ppm)	0482	4.300	0.0000	4.107	1.497	0.0822	19	0.13	202.30	0
202	Acid Soluble Cobalt (ppm)	0527	4.513	0.0851	4.107	1.497	0.0822	19	0.27	202.33	0
202	Acid Soluble Cobalt (ppm)	0389	4.660	0.0000	4.107	1.497	0.0822	19	0.37	202.30	0
202	Acid Soluble Cobalt (ppm)	0368	4.748	0.2976	4.107	1.497	0.0822	19	0.43	202.34	0
202	Acid Soluble Cobalt (ppm)	0546	4.757	0.5704	4.107	1.497	0.0822	19	0.43	202.33	0
202	Acid Soluble Cobalt (ppm)	0423	4.940	0.0400	4.107	1.497	0.0822	19	0.56	202.32	0
202	Acid Soluble Cobalt (ppm)	0037	5.122	0.0170	4.107	1.497	0.0822	19	0.68	202.33	0
202	Acid Soluble Cobalt (ppm)	0521	5.495	0.0000	4.107	1.497	0.0822	19	0.93	202.32	0
202	Acid Soluble Cobalt (ppm)	0506	7.570	0.2200	4.107	1.497	0.0822	19	2.31	202.99	0
202	Acid Soluble Cobalt (ppm)	0526	18.29	0.0000	4.107	1.497	0.0822	19	9.48	202.00	0
202	Acid Soluble Cobalt (ppm)	0035	4.835	0.6700	4.107	1.497	0.0822	19	0.49	202.30	1
202	Acid Soluble Cobalt (ppm)	0555	0.0000	0.0000	4.107	1.497	0.0822	19		202.30	4



Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
202	Acid Soluble Cobalt (ppm)	0027	< 0.002		4.107	1.497	0.0822	19		202.30	5
202	Acid Soluble Cobalt (ppm)	0481	< 10		4.107	1.497	0.0822	19		202.99	5
221	Acid Soluble Copper (%)	0136	0.0040	0.0000	0.0055	0.0009	0.0003	35	-1.79	221.33	0
221	Acid Soluble Copper (%)	0105	0.0044	0.0009	0.0055	0.0009	0.0003	35	-1.39	221.00	0
221	Acid Soluble Copper (%)	0524	0.0045	0.0000	0.0055	0.0009	0.0003	35	-1.21	221.99	0
221	Acid Soluble Copper (%)	0526	0.0045	0.0010	0.0055	0.0009	0.0003	35	-1.21	221.03	0
221	Acid Soluble Copper (%)	0515	0.0047	0.0001	0.0055	0.0009	0.0003	35	-1.04	221.33	0
221	Acid Soluble Copper (%)	0476	0.0047	0.0001	0.0055	0.0009	0.0003	35	-1.04	221.99	0
221	Acid Soluble Copper (%)	0095	0.0049	0.0007	0.0055	0.0009	0.0003	35	-0.81	221.32	0
221	Acid Soluble Copper (%)	0515	0.0049	0.0001	0.0055	0.0009	0.0003	35	-0.81	221.99	0
221	Acid Soluble Copper (%)	0506	0.0050	0.0000	0.0055	0.0009	0.0003	35	-0.63	221.99	0
221	Acid Soluble Copper (%)	0523	0.0050	0.0000	0.0055	0.0009	0.0003	35	-0.63	221.99	0
221	Acid Soluble Copper (%)	0368	0.0052	0.0002	0.0055	0.0009	0.0003	35	-0.40	221.99	0
221	Acid Soluble Copper (%)	0389	0.0053	0.0001	0.0055	0.0009	0.0003	35	-0.34	221.99	0
221	Acid Soluble Copper (%)	0106	0.0053	0.0003	0.0055	0.0009	0.0003	35	-0.34	221.33	0
221	Acid Soluble Copper (%)	0096	0.0054	0.0004	0.0055	0.0009	0.0003	35	-0.17	221.30	0
221	Acid Soluble Copper (%)	0233	0.0054	0.0002	0.0055	0.0009	0.0003	35	-0.17	221.33	0
221	Acid Soluble Copper (%)	0028	0.0054	0.0002	0.0055	0.0009	0.0003	35	-0.17	221.99	0
221	Acid Soluble Copper (%)	0105	0.0055	0.0009	0.0055	0.0009	0.0003	35	-0.11	221.03	0
221	Acid Soluble Copper (%)	0527	0.0055	0.0001	0.0055	0.0009	0.0003	35	-0.11	221.33	0
221	Acid Soluble Copper (%)	0041	0.0055	0.0010	0.0055	0.0009	0.0003	35	-0.05	221.30	0
221	Acid Soluble Copper (%)	0043	0.0055	0.0002	0.0055	0.0009	0.0003	35	-0.05	221.32	0
221	Acid Soluble Copper (%)	0485	0.0056	0.0001	0.0055	0.0009	0.0003	35	0.01	221.00	0
221	Acid Soluble Copper (%)	0546	0.0056	0.0000	0.0055	0.0009	0.0003	35	0.07	221.33	0
221	Acid Soluble Copper (%)	0550	0.0057	0.0002	0.0055	0.0009	0.0003	35	0.18	221.00	0
221	Acid Soluble Copper (%)	0035	0.0057	0.0004	0.0055	0.0009	0.0003	35	0.18	221.30	0
221	Acid Soluble Copper (%)	0498	0.0060	0.0000	0.0055	0.0009	0.0003	35	0.53	221.01	0
221	Acid Soluble Copper (%)	0423	0.0060	0.0000	0.0055	0.0009	0.0003	35	0.53	221.32	0
221	Acid Soluble Copper (%)	0481	0.0060	0.0000	0.0055	0.0009	0.0003	35	0.53	221.99	0
221	Acid Soluble Copper (%)	0483	0.0061	0.0000	0.0055	0.0009	0.0003	35	0.65	221.30	0
221	Acid Soluble Copper (%)	0402	0.0063	0.0004	0.0055	0.0009	0.0003	35	0.88	221.30	0
221	Acid Soluble Copper (%)	0255	0.0065	0.0030	0.0055	0.0009	0.0003	35	1.11	221.30	0
221	Acid Soluble Copper (%)	0555	0.0070	0.0002	0.0055	0.0009	0.0003	35	1.69	221.33	0
221	Acid Soluble Copper (%)	0444	0.0085	0.0010	0.0055	0.0009	0.0003	35	3.43	221.30	0
221	Acid Soluble Copper (%)	0553	0.0100	0.0000	0.0055	0.0009	0.0003	35	5.17	221.00	0
221	Acid Soluble Copper (%)	0472	0.0100	0.0000	0.0055	0.0009	0.0003	35	5.17	221.30	0
221	Acid Soluble Copper (%)	0482	0.0100	0.0000	0.0055	0.0009	0.0003	35	5.17	221.30	0
221	Acid Soluble Copper (%)	0037	56.23	2.410	0.0055	0.0009	0.0003	35	65284.64	221.33	2
221	Acid Soluble Copper (%)	0354	< 0.01		0.0055	0.0009	0.0003	35		221.30	5
221	Acid Soluble Copper (%)	0405	< 0.5		0.0055	0.0009	0.0003	35		221.99	5
241	Acid Soluble Iron (%)	0105	0.9820	0.0820	1.138	0.0744	0.0376	22	-2.09	241.03	0
241	Acid Soluble Iron (%)	0525	1.041	0.1420	1.138	0.0744	0.0376	22	-1.30	241.33	0
241	Acid Soluble Iron (%)	0389	1.047	0.0080	1.138	0.0744	0.0376	22	-1.22	241.99	0
241	Acid Soluble Iron (%)	0515	1.066	0.0137	1.138	0.0744	0.0376	22	-0.96	241.33	0
241	Acid Soluble Iron (%)	0553	1.090	0.0000	1.138	0.0744	0.0376	22	-0.64	241.00	0
241	Acid Soluble Iron (%)	0055	1.100	0.0800	1.138	0.0744	0.0376	22	-0.51	241.33	0
241	Acid Soluble Iron (%)	0096	1.105	0.0100	1.138	0.0744	0.0376	22	-0.44	241.30	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				
241	Acid Soluble Iron (%)	0423	1.115	0.0100	1.138	0.0744	0.0376	22	-0.30	241.32	0
241	Acid Soluble Iron (%)	0354	1.125	0.0100	1.138	0.0744	0.0376	22	-0.17	241.30	0
241	Acid Soluble Iron (%)	0402	1.135	0.0100	1.138	0.0744	0.0376	22	-0.03	241.30	0
241	Acid Soluble Iron (%)	0472	1.135	0.0100	1.138	0.0744	0.0376	22	-0.03	241.30	0
241	Acid Soluble Iron (%)	0527	1.143	0.0097	1.138	0.0744	0.0376	22	0.07	241.33	0
241	Acid Soluble Iron (%)	0106	1.143	0.1145	1.138	0.0744	0.0376	22	0.07	241.33	0
241	Acid Soluble Iron (%)	0515	1.143	0.0001	1.138	0.0744	0.0376	22	0.07	241.99	0
241	Acid Soluble Iron (%)	0546	1.143	0.0055	1.138	0.0744	0.0376	22	0.08	241.33	0
241	Acid Soluble Iron (%)	0105	1.156	0.0270	1.138	0.0744	0.0376	22	0.24	241.00	0
241	Acid Soluble Iron (%)	0451	1.160	0.0600	1.138	0.0744	0.0376	22	0.30	241.30	0
241	Acid Soluble Iron (%)	0524	1.163	0.0639	1.138	0.0744	0.0376	22	0.35	241.99	0
241	Acid Soluble Iron (%)	0368	1.242	0.0814	1.138	0.0744	0.0376	22	1.41	241.99	0
241	Acid Soluble Iron (%)	0482	1.260	0.0000	1.138	0.0744	0.0376	22	1.65	241.30	0
241	Acid Soluble Iron (%)	0035	1.270	0.0600	1.138	0.0744	0.0376	22	1.78	241.30	0
241	Acid Soluble Iron (%)	0483	1.285	0.0300	1.138	0.0744	0.0376	22	1.98	241.30	0
241	Acid Soluble Iron (%)	0521	2.090	0.0000	1.138	0.0744	0.0376	22	12.79	241.32	2
251	Acid Soluble Lead (ppm)	0506	0.5110	0.0020	1.448	0.3976	0.1975	14	-2.36	251.99	0
251	Acid Soluble Lead (ppm)	0519	1.060	0.0010	1.448	0.3976	0.1975	14	-0.98	251.99	0
251	Acid Soluble Lead (ppm)	0550	1.138	0.6740	1.448	0.3976	0.1975	14	-0.78	251.00	0
251	Acid Soluble Lead (ppm)	0255	1.189	0.7270	1.448	0.3976	0.1975	14	-0.65	251.30	0
251	Acid Soluble Lead (ppm)	0476	1.303	0.0521	1.448	0.3976	0.1975	14	-0.36	251.99	0
251	Acid Soluble Lead (ppm)	0481	1.305	0.0500	1.448	0.3976	0.1975	14	-0.36	251.99	0
251	Acid Soluble Lead (ppm)	0136	1.335	0.1500	1.448	0.3976	0.1975	14	-0.28	251.33	0
251	Acid Soluble Lead (ppm)	0389	1.351	0.0110	1.448	0.3976	0.1975	14	-0.25	251.30	0
251	Acid Soluble Lead (ppm)	0524	1.564	0.0286	1.448	0.3976	0.1975	14	0.29	251.30	0
251	Acid Soluble Lead (ppm)	0527	1.690	0.0366	1.448	0.3976	0.1975	14	0.61	251.33	0
251	Acid Soluble Lead (ppm)	0482	1.695	0.2900	1.448	0.3976	0.1975	14	0.62	251.30	0
251	Acid Soluble Lead (ppm)	0405	1.800	0.2000	1.448	0.3976	0.1975	14	0.88	251.30	0
251	Acid Soluble Lead (ppm)	0096	1.950	0.3000	1.448	0.3976	0.1975	14	1.26	251.30	0
251	Acid Soluble Lead (ppm)	0515	4.090	0.2420	1.448	0.3976	0.1975	14	6.64	251.33	0
251	Acid Soluble Lead (ppm)	0555	0.0000	0.0000	1.448	0.3976	0.1975	14		251.30	4
251	Acid Soluble Lead (ppm)	0027	< 0.002		1.448	0.3976	0.1975	14		251.30	5
251	Acid Soluble Lead (ppm)	0526	< 0.013		1.448	0.3976	0.1975	14		251.00	5
251	Acid Soluble Lead (ppm)	0368	< 0.8		1.448	0.3976	0.1975	14		251.34	5
251	Acid Soluble Lead (ppm)	0117	< 5		1.448	0.3976	0.1975	14		251.33	5
261	Acid Soluble Manganese (%)	0515	0.0026	0.0007	0.0039	0.0005	0.0001	11	-2.62	261.99	0
261	Acid Soluble Manganese (%)	0105	0.0033	0.0002	0.0039	0.0005	0.0001	11	-1.12	261.15	0
261	Acid Soluble Manganese (%)	0105	0.0035	0.0001	0.0039	0.0005	0.0001	11	-0.82	261.12	0
261	Acid Soluble Manganese (%)	0546	0.0038	0.0000	0.0039	0.0005	0.0001	11	-0.12	261.35	0
261	Acid Soluble Manganese (%)	0524	0.0038	0.0000	0.0039	0.0005	0.0001	11	-0.12	261.99	0
261	Acid Soluble Manganese (%)	0389	0.0039	0.0000	0.0039	0.0005	0.0001	11	0.08	261.99	0
261	Acid Soluble Manganese (%)	0423	0.0040	0.0000	0.0039	0.0005	0.0001	11	0.28	261.34	0
261	Acid Soluble Manganese (%)	0527	0.0041	0.0001	0.0039	0.0005	0.0001	11	0.38	261.35	0
261	Acid Soluble Manganese (%)	0096	0.0041	0.0000	0.0039	0.0005	0.0001	11	0.48	261.30	0
261	Acid Soluble Manganese (%)	0035	0.0044	0.0001	0.0039	0.0005	0.0001	11	0.98	261.30	0
261	Acid Soluble Manganese (%)	0553	0.0100	0.0000	0.0039	0.0005	0.0001	11	12.29	261.00	0
261	Acid Soluble Manganese (%)	0106	0.0030	0.0021	0.0039	0.0005	0.0001	11	-1.82	261.35	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				
261	Acid Soluble Manganese (%)	0354	< 0.01		0.0039	0.0005	0.0001	11		261.30	5
281	Acid Soluble Mercury (ppm)	0550	0.0107	0.0035	0.0699	0.0459	0.0021	5	-1.13	281.00	0
281	Acid Soluble Mercury (ppm)	0519	0.0300	0.0000	0.0699	0.0459	0.0021	5	-0.76	281.99	0
281	Acid Soluble Mercury (ppm)	0405	0.1000	0.0000	0.0699	0.0459	0.0021	5	0.57	281.30	0
281	Acid Soluble Mercury (ppm)	0476	0.1031	0.0029	0.0699	0.0459	0.0021	5	0.63	281.99	0
281	Acid Soluble Mercury (ppm)	0506	0.1060	0.0040	0.0699	0.0459	0.0021	5	0.69	281.99	0
281	Acid Soluble Mercury (ppm)	0368	0.0984	0.0193	0.0699	0.0459	0.0021	5	0.54	281.99	1
281	Acid Soluble Mercury (ppm)	0527	< 0.0001		0.0699	0.0459	0.0021	5		281.30	5
281	Acid Soluble Mercury (ppm)	0481	< 0.5		0.0699	0.0459	0.0021	5		281.99	5
289	Acid Soluble Molybdenum (ppm)	0106	0.0003	0.0000	2.581	1.990	0.3185	14	-1.30	289.33	0
289	Acid Soluble Molybdenum (ppm)	0524	0.6463	0.0172	2.581	1.990	0.3185	14	-0.97	289.30	0
289	Acid Soluble Molybdenum (ppm)	0035	1.110	0.5210	2.581	1.990	0.3185	14	-0.74	289.30	0
289	Acid Soluble Molybdenum (ppm)	0550	1.755	1.290	2.581	1.990	0.3185	14	-0.41	289.00	0
289	Acid Soluble Molybdenum (ppm)	0476	1.906	0.0203	2.581	1.990	0.3185	14	-0.34	289.99	0
289	Acid Soluble Molybdenum (ppm)	0389	1.960	0.0000	2.581	1.990	0.3185	14	-0.31	289.30	0
289	Acid Soluble Molybdenum (ppm)	0546	1.992	0.0588	2.581	1.990	0.3185	14	-0.30	289.33	0
289	Acid Soluble Molybdenum (ppm)	0405	2.005	0.0500	2.581	1.990	0.3185	14	-0.29	289.30	0
289	Acid Soluble Molybdenum (ppm)	0527	2.263	0.0198	2.581	1.990	0.3185	14	-0.16	289.33	0
289	Acid Soluble Molybdenum (ppm)	0037	2.372	0.3700	2.581	1.990	0.3185	14	-0.10	289.33	0
289	Acid Soluble Molybdenum (ppm)	0255	4.486	0.4340	2.581	1.990	0.3185	14	0.96	289.30	0
289	Acid Soluble Molybdenum (ppm)	0561	4.500	0.0000	2.581	1.990	0.3185	14	0.96	289.30	0
289	Acid Soluble Molybdenum (ppm)	0368	6.636	0.9981	2.581	1.990	0.3185	14	2.04	289.34	0
289	Acid Soluble Molybdenum (ppm)	0506	8.100	0.6800	2.581	1.990	0.3185	14	2.77	289.99	0
289	Acid Soluble Molybdenum (ppm)	0555	0.0000	0.0000	2.581	1.990	0.3185	14		289.30	4
289	Acid Soluble Molybdenum (ppm)	0136	< 4		2.581	1.990	0.3185	14		289.33	5
289	Acid Soluble Molybdenum (ppm)	0481	< 50		2.581	1.990	0.3185	14		289.99	5
291	Acid Soluble Nickel (ppm)	0515	4.299	0.2640	6.360	1.475	0.4880	23	-1.40	291.34	0
291	Acid Soluble Nickel (ppm)	0519	4.455	0.0100	6.360	1.475	0.4880	23	-1.29	291.99	0
291	Acid Soluble Nickel (ppm)	0550	4.687	0.1050	6.360	1.475	0.4880	23	-1.13	291.00	0
291	Acid Soluble Nickel (ppm)	0515	4.789	1.950	6.360	1.475	0.4880	23	-1.07	291.33	0
291	Acid Soluble Nickel (ppm)	0136	5.000	0.0000	6.360	1.475	0.4880	23	-0.92	291.33	0
291	Acid Soluble Nickel (ppm)	0481	5.095	0.0300	6.360	1.475	0.4880	23	-0.86	291.99	0
291	Acid Soluble Nickel (ppm)	0524	5.265	0.3062	6.360	1.475	0.4880	23	-0.74	291.30	0
291	Acid Soluble Nickel (ppm)	0506	5.620	0.2600	6.360	1.475	0.4880	23	-0.50	291.99	0
291	Acid Soluble Nickel (ppm)	0255	5.628	0.5160	6.360	1.475	0.4880	23	-0.50	291.99	0
291	Acid Soluble Nickel (ppm)	0368	6.343	0.3180	6.360	1.475	0.4880	23	-0.01	291.34	0
291	Acid Soluble Nickel (ppm)	0096	6.400	0.8000	6.360	1.475	0.4880	23	0.03	291.30	0
291	Acid Soluble Nickel (ppm)	0389	6.515	0.0100	6.360	1.475	0.4880	23	0.10	291.30	0
291	Acid Soluble Nickel (ppm)	0476	6.593	0.5343	6.360	1.475	0.4880	23	0.16	291.99	0
291	Acid Soluble Nickel (ppm)	0482	6.650	0.5000	6.360	1.475	0.4880	23	0.20	291.30	0
291	Acid Soluble Nickel (ppm)	0405	6.850	0.1000	6.360	1.475	0.4880	23	0.33	291.30	0
291	Acid Soluble Nickel (ppm)	0561	7.100	0.2000	6.360	1.475	0.4880	23	0.50	291.30	0
291	Acid Soluble Nickel (ppm)	0444	7.205	1.850	6.360	1.475	0.4880	23	0.57	291.30	0
291	Acid Soluble Nickel (ppm)	0028	7.290	0.7800	6.360	1.475	0.4880	23	0.63	291.99	0
291	Acid Soluble Nickel (ppm)	0035	7.620	1.720	6.360	1.475	0.4880	23	0.85	291.30	0
291	Acid Soluble Nickel (ppm)	0117	7.741	0.0320	6.360	1.475	0.4880	23	0.94	291.33	0
291	Acid Soluble Nickel (ppm)	0037	8.183	0.6470	6.360	1.475	0.4880	23	1.23	291.33	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				
291	Acid Soluble Nickel (ppm)	0527	8.389	0.2922	6.360	1.475	0.4880	23	1.38	291.33	0
291	Acid Soluble Nickel (ppm)	0521	15.32	0.0000	6.360	1.475	0.4880	23	6.07	291.30	0
291	Acid Soluble Nickel (ppm)	0555	0.0000	0.0000	6.360	1.475	0.4880	23		291.30	4
291	Acid Soluble Nickel (ppm)	0027	< 0.002		6.360	1.475	0.4880	23		291.30	5
301	Acid Soluble Selenium (ppm)	0519	0.0500	0.0000	0.6477	0.2304	0.1175	8	-2.59	301.99	0
301	Acid Soluble Selenium (ppm)	0524	0.4950	0.1300	0.6477	0.2304	0.1175	8	-0.66	301.30	0
301	Acid Soluble Selenium (ppm)	0481	0.5250	0.0100	0.6477	0.2304	0.1175	8	-0.53	301.99	0
301	Acid Soluble Selenium (ppm)	0389	0.6035	0.0590	0.6477	0.2304	0.1175	8	-0.19	301.99	0
301	Acid Soluble Selenium (ppm)	0255	0.7265	0.5210	0.6477	0.2304	0.1175	8	0.34	301.99	0
301	Acid Soluble Selenium (ppm)	0086	0.7721	0.0845	0.6477	0.2304	0.1175	8	0.54	301.30	0
301	Acid Soluble Selenium (ppm)	0476	0.8588	0.0444	0.6477	0.2304	0.1175	8	0.92	301.99	0
301	Acid Soluble Selenium (ppm)	0136	0.8985	0.0910	0.6477	0.2304	0.1175	8	1.09	301.33	0
301	Acid Soluble Selenium (ppm)	0405	1.500	1.000	0.6477	0.2304	0.1175	8	3.70	301.30	1
301	Acid Soluble Selenium (ppm)	0555	0.0000	0.0000	0.6477	0.2304	0.1175	8		301.30	4
301	Acid Soluble Selenium (ppm)	0527	< 0.001		0.6477	0.2304	0.1175	8		301.33	5
301	Acid Soluble Selenium (ppm)	0027	< 0.002		0.6477	0.2304	0.1175	8		301.30	5
301	Acid Soluble Selenium (ppm)	0550	< 0.08		0.6477	0.2304	0.1175	8		301.00	5
301	Acid Soluble Selenium (ppm)	0526	< 0.23		0.6477	0.2304	0.1175	8		301.00	5
301	Acid Soluble Selenium (ppm)	0368	< 1.1		0.6477	0.2304	0.1175	8		301.34	5
311	Sodium (%)	0423	0.0675	0.0010	0.0760	0.0071	0.0070	6	-1.07	311.33	0
311	Sodium (%)	0527	0.0739	0.0028	0.0760	0.0071	0.0070	6	-0.26	311.33	0
311	Sodium (%)	0096	0.0750	0.0100	0.0760	0.0071	0.0070	6	-0.13	311.99	0
311	Sodium (%)	0482	0.0750	0.0100	0.0760	0.0071	0.0070	6	-0.13	311.99	0
311	Sodium (%)	0035	0.0780	0.0080	0.0760	0.0071	0.0070	6	0.25	311.33	0
311	Sodium (%)	0354	0.0950	0.0100	0.0760	0.0071	0.0070	6	2.38	311.99	0
321	Acid Soluble Zinc (%)	0095	0.0071	0.0042	0.0109	0.0011	0.0314	37	-3.35	321.32	0
321	Acid Soluble Zinc (%)	0027	0.0090	0.0000	0.0109	0.0011	0.0314	37	-1.67	321.99	0
321	Acid Soluble Zinc (%)	0476	0.0090	0.0002	0.0109	0.0011	0.0314	37	-1.67	321.99	0
321	Acid Soluble Zinc (%)	0255	0.0100	0.0020	0.0109	0.0011	0.0314	37	-0.78	321.30	0
321	Acid Soluble Zinc (%)	0553	0.0100	0.0000	0.0109	0.0011	0.0314	37	-0.78	321.00	0
321	Acid Soluble Zinc (%)	0498	0.0100	0.0000	0.0109	0.0011	0.0314	37	-0.78	321.01	0
321	Acid Soluble Zinc (%)	0526	0.0100	0.0000	0.0109	0.0011	0.0314	37	-0.78	321.03	0
321	Acid Soluble Zinc (%)	0354	0.0100	0.0000	0.0109	0.0011	0.0314	37	-0.78	321.30	0
321	Acid Soluble Zinc (%)	0472	0.0100	0.0000	0.0109	0.0011	0.0314	37	-0.78	321.30	0
321	Acid Soluble Zinc (%)	0482	0.0100	0.0000	0.0109	0.0011	0.0314	37	-0.78	321.30	0
321	Acid Soluble Zinc (%)	0136	0.0100	0.0000	0.0109	0.0011	0.0314	37	-0.78	321.33	0
321	Acid Soluble Zinc (%)	0546	0.0103	0.0001	0.0109	0.0011	0.0314	37	-0.56	321.33	0
321	Acid Soluble Zinc (%)	0515	0.0103	0.0010	0.0109	0.0011	0.0314	37	-0.52	321.33	0
321	Acid Soluble Zinc (%)	0105	0.0104	0.0001	0.0109	0.0011	0.0314	37	-0.47	321.03	0
321	Acid Soluble Zinc (%)	0389	0.0106	0.0001	0.0109	0.0011	0.0314	37	-0.29	321.99	0
321	Acid Soluble Zinc (%)	0527	0.0106	0.0004	0.0109	0.0011	0.0314	37	-0.25	321.33	0
321	Acid Soluble Zinc (%)	0028	0.0108	0.0003	0.0109	0.0011	0.0314	37	-0.12	321.99	0
321	Acid Soluble Zinc (%)	0515	0.0108	0.0014	0.0109	0.0011	0.0314	37	-0.07	321.99	0
321	Acid Soluble Zinc (%)	0483	0.0109	0.0013	0.0109	0.0011	0.0314	37	-0.03	321.30	0
321	Acid Soluble Zinc (%)	0433	0.0110	0.0000	0.0109	0.0011	0.0314	37	0.10	321.30	0
321	Acid Soluble Zinc (%)	0043	0.0110	0.0000	0.0109	0.0011	0.0314	37	0.10	321.33	0
321	Acid Soluble Zinc (%)	0481	0.0110	0.0000	0.0109	0.0011	0.0314	37	0.10	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 (%)	0506	0.0110	0.0000	0.0109	0.0011	0.0314	37	0.10	321.99	0
321	Acid Soluble Zinc (%)	0106	0.0111	0.0066	0.0109	0.0011	0.0314	37	0.19	321.33	0
321	Acid Soluble Zinc (%)	0035	0.0112	0.0017	0.0109	0.0011	0.0314	37	0.24	321.30	0
321	Acid Soluble Zinc (%)	0105	0.0113	0.0012	0.0109	0.0011	0.0314	37	0.37	321.00	0
321	Acid Soluble Zinc (%)	0524	0.0114	0.0001	0.0109	0.0011	0.0314	37	0.41	321.99	0
321	Acid Soluble Zinc (%)	0550	0.0115	0.0007	0.0109	0.0011	0.0314	37	0.50	321.00	0
321	Acid Soluble Zinc (%)	0041	0.0115	0.0010	0.0109	0.0011	0.0314	37	0.55	321.30	0
321	Acid Soluble Zinc (%)	0423	0.0115	0.0010	0.0109	0.0011	0.0314	37	0.55	321.32	0
321	Acid Soluble Zinc (%)	0485	0.0119	0.0004	0.0109	0.0011	0.0314	37	0.90	321.00	0
321	Acid Soluble Zinc (%)	0444	0.0125	0.0010	0.0109	0.0011	0.0314	37	1.43	321.30	0
321	Acid Soluble Zinc (%)	0521	0.0139	0.0000	0.0109	0.0011	0.0314	37	2.67	321.32	0
321	Acid Soluble Zinc (%)	0096	0.0140	0.0020	0.0109	0.0011	0.0314	37	2.76	321.30	0
321	Acid Soluble Zinc (%)	0523	0.0160	0.0000	0.0109	0.0011	0.0314	37	4.53	321.99	0
321	Acid Soluble Zinc (%)	0559	0.0305	0.0010	0.0109	0.0011	0.0314	37	17.37	321.99	0
321	Acid Soluble Zinc (%)	0368	111.9	1.133	0.0109	0.0011	0.0314	37	99084.61	321.99	0
321	Acid Soluble Zinc (%)	0037	113.3	2.110	0.0109	0.0011	0.0314	37	100290.05	321.33	1
321	Acid Soluble Zinc (%)	0233	114.6	1.500	0.0109	0.0011	0.0314	37	101410.05	321.33	1
321	Acid Soluble Zinc (%)	0561	< 1		0.0109	0.0011	0.0314	37		321.30	5
321	Acid Soluble Zinc (%)	0405	< 1		0.0109	0.0011	0.0314	37		321.99	5
325	Water Soluble Zinc (%)	0555	0.0129	0.0013				1		325.30	0

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier, 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.