



Analyte PT For All Labs

### Magruder Fertilizer Proficiency Testing Program

# Analytes: 26

Sample # 241111

Regular PT Scheme

# Labs Reporting: 64

Gypsum

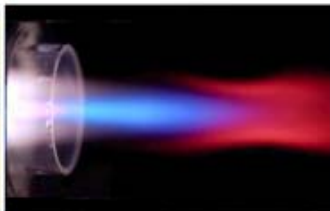
Statistical Summary

Issue Date : 12/31/2024

Analyte Code	Analyte Sample # 241111	# 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
010	Total N (%)	6	6	0.5871	0.0322	0.5871	0.4900	0.0365	0.0186	6.22%	0.17	0.0093	4.33%
020	Total P2O5 (%)	5	2	0.0278	0.0410	0.0144		0.0079	0.0070	55.00%		0.0012	7.57%
041	Direct Available P2O5 (%)	2	2	0.0120	0.0028								
050	Soluble K2O (%)	6	5	0.1636	0.1376	0.1287	0.4100	0.1206	0.0674	93.72%	0.69	0.0035	5.45%
060	Water (Free) (%)	2	2	8.899	11.35								
101	Acid Soluble Ca (21%)	61	59	21.05	1.725	21.27	1.0000	0.9479	0.1542	4.46%	2.21	0.3088	2.17%
121	Acid Soluble Mg (%)	10	10	0.1044	0.0243	0.1080	0.2054	0.0176	0.0070	16.31%	0.20	0.0082	5.59%
143	Elemental S (%)	8	7	11.93	7.320	15.19		2.513	1.187	16.55%		0.3237	2.57%
145	Sulfate S, HCl soluble (%)	14	14	13.93	5.382	16.02		1.490	0.4977	9.30%		0.1309	2.50%
148	Total S (17%)	45	43	16.25	1.823	16.67	1.0000	0.5980	0.1140	3.59%	1.39	0.1824	2.45%
149	S - HNO3 soluble (%)	6	6	16.23	2.906	17.26		0.4735	0.2416	2.74%		0.2667	2.41%
151	Acid Soluble As (ppm)	14	5	2.966	6.698	5.375		11.22	6.270	208.67%		0.8654	12.42%
165	Acid Soluble B (%)	6	4	0.0053	0.0051	0.0030	0.0034	0.0047	0.0029	158.63%	3.18	0.0001	9.61%
181	Acid Soluble Cd (ppm)	14	5	0.3297	0.3827	0.1086		0.0164	0.0092	15.12%		0.0051	22.00%
191	Acid Soluble Cr (ppm)	14	11	11.11	4.892	10.50		2.928	1.104	27.88%		0.7799	11.23%
202	Acid Soluble Co (ppm)	14	11	3.029	1.680	3.008	1.9023	1.218	0.4589	40.48%	1.49	0.2116	13.55%
221	Acid Soluble Cu (%)	15	5	0.0025	0.0049	0.0003	0.0050	0.0001	0.0001	28.85%	0.04	0.0003	13.49%
241	Acid Soluble Fe (%)	9	9	0.0902	0.0132	0.0906	0.0141	0.0142	0.0059	15.68%	2.35	0.0086	5.74%
251	Acid Soluble Pb (ppm)	13	5	1.781	2.071	0.4942		0.3173	0.1774	64.21%		0.0315	17.79%
261	Acid Soluble Mn (%)	7	6	0.0043	0.0026	0.0034	0.0053	0.0007	0.0004	21.13%	0.31	0.0003	9.42%
281	Acid Soluble Hg (ppm)	9	4	0.5236	0.6658	0.2153		0.0429	0.0268	19.91%		0.0127	20.16%
289	Acid Soluble Mo (ppm)	12	7	1.608	2.748	0.7521	1.2256	0.6196	0.2927	82.39%	1.18	0.2028	16.70%
291	Acid Soluble Ni (ppm)	16	13	4.384	3.112	3.755		0.8600	0.2982	22.90%		0.4023	13.11%
301	Acid Soluble Se (ppm)	13	8	3.634	2.740	2.891		0.3467	0.1532	11.99%		0.1982	13.63%
311	Sodium (%)	5	4	0.0107	0.0080	0.0109	0.0061	0.0092	0.0057	84.26%	3.51	0.0098	7.90%
321	Acid Soluble Zn (%)	16	13	0.0030	0.0036	0.0013	0.0051	0.0006	0.0002	49.25%	0.29	0.0001	10.90%

The Analyte IA Ratio = 2.33 \* Robust SD / 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. The Horwitz %RSD is calculated using the Thompson Modification, Analyst,2000,125,385-386.

Horwitz %RSD
Average Range (R-bar)
Analyte IA Ratio
Robust % RSD
Robust Uncertainty (U)
Robust sd
IA at Analyte Value
Assigned Value Robust Mean
Raw SD
Raw Mean
# Tests in Robust Calculations
# Tests Submitted
Analyte Sample # 241111
Analyte Code



Analyte PT For All Labs

### Magruder Fertilizer Proficiency Testing Program

# Analytes: 26

Sample # 241111

Regular PT Scheme

# Labs Reporting: 64

Gypsum

Lab Values

Issue Date : 12/31/2024

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
010	Total N (%)	0527	0.5620	0.0180	0.5871	0.0365	0.0093	6	-0.61	010.60	0
010	Total N (%)	0524	0.5647	0.0152	0.5871	0.0365	0.0093	6	-0.55	010.99	0
010	Total N (%)	0568	0.5690	0.0000	0.5871	0.0365	0.0093	6	-0.44	010.12	0
010	Total N (%)	0422	0.5700	0.0000	0.5871	0.0365	0.0093	6	-0.42	010.60	0
010	Total N (%)	0354	0.6265	0.0010	0.5871	0.0365	0.0093	6	0.96	010.60	0
010	Total N (%)	0588	0.6305	0.0030	0.5871	0.0365	0.0093	6	1.06	010.60	0
020	Total P2O5 (%)	0524	0.0088	0.0012				2		020.50	0
020	Total P2O5 (%)	0472	0.0200	0.0000				2		020.50	0
020	Total P2O5 (%)	0422	0.0000	0.0000				2		020.50	4
020	Total P2O5 (%)	0527	< 0.01					2		020.50	5
020	Total P2O5 (%)	0588	< 0.1					2		020.50	5
041	Direct Available P2O5 (%)	0568	0.0100	0.0000				2		041.21	0
041	Direct Available P2O5 (%)	0354	0.0140	0.0060				2		041.21	0
050	Soluble K2O (%)	0524	0.0539	0.0005	0.1287	0.1206	0.0035	5	-0.54	050.99	0
050	Soluble K2O (%)	0527	0.0553	0.0023	0.1287	0.1206	0.0035	5	-0.53	050.99	0
050	Soluble K2O (%)	0588	0.0800	0.0080	0.1287	0.1206	0.0035	5	-0.35	050.99	0
050	Soluble K2O (%)	0422	0.1145	0.0030	0.1287	0.1206	0.0035	5	-0.10	050.50	0
050	Soluble K2O (%)	0568	0.3400	0.0000	0.1287	0.1206	0.0035	5	1.53	050.51	0
050	Soluble K2O (%)	0354	0.3380	0.5440	0.1287	0.1206	0.0035	5	1.51	050.52	1
060	Water (Free) (%)	0510	0.8721	0.0013				2		060.10	0
060	Water (Free) (%)	0513	16.93	0.0500				2		060.99	0
101	Acid Soluble Ca (21%)	0042	15.35†	1.530	21.27	0.9479	0.3088	59	-6.25	101.99	0
101	Acid Soluble Ca (21%)	0102	18.70†	0.2100	21.27	0.9479	0.3088	59	-2.71	101.33	0
101	Acid Soluble Ca (21%)	0377	19.08†	1.510	21.27	0.9479	0.3088	59	-2.31	101.30	0
101	Acid Soluble Ca (21%)	0255	19.59†	1.310	21.27	0.9479	0.3088	59	-1.77	101.30	0
101	Acid Soluble Ca (21%)	0568	19.70†	0.0000	21.27	0.9479	0.3088	59	-1.65	101.30	0
101	Acid Soluble Ca (21%)	0055	20.05†	0.1550	21.27	0.9479	0.3088	59	-1.28	101.33	0
101	Acid Soluble Ca (21%)	0481	20.08†	0.1700	21.27	0.9479	0.3088	59	-1.26	101.99	0
101	Acid Soluble Ca (21%)	0040	20.08†	0.7200	21.27	0.9479	0.3088	59	-1.25	101.33	0
101	Acid Soluble Ca (21%)	0494	20.11†	0.5699	21.27	0.9479	0.3088	59	-1.22	101.33	0
101	Acid Soluble Ca (21%)	0220	20.25†	0.3000	21.27	0.9479	0.3088	59	-1.07	101.32	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
101	Acid Soluble Ca (21%)	0037	20.47	0.5645	21.27	0.9479	0.3088	59	-0.84	101.33	0
101	Acid Soluble Ca (21%)	0481	20.61	1.280	21.27	0.9479	0.3088	59	-0.69	101.70	0
101	Acid Soluble Ca (21%)	0029	20.62	0.0200	21.27	0.9479	0.3088	59	-0.68	101.99	0
101	Acid Soluble Ca (21%)	0136	20.75	0.1000	21.27	0.9479	0.3088	59	-0.54	101.33	0
101	Acid Soluble Ca (21%)	0553	20.78	0.4900	21.27	0.9479	0.3088	59	-0.52	101.00	0
101	Acid Soluble Ca (21%)	0292	20.79	0.0700	21.27	0.9479	0.3088	59	-0.51	101.33	0
101	Acid Soluble Ca (21%)	0177	20.82	0.0369	21.27	0.9479	0.3088	59	-0.47	101.33	0
101	Acid Soluble Ca (21%)	0531	20.85	0.1000	21.27	0.9479	0.3088	59	-0.44	101.99	0
101	Acid Soluble Ca (21%)	0537	20.87	0.1400	21.27	0.9479	0.3088	59	-0.42	101.99	0
101	Acid Soluble Ca (21%)	0451	20.92	0.3100	21.27	0.9479	0.3088	59	-0.37	101.30	0
101	Acid Soluble Ca (21%)	0635	20.92	0.0600	21.27	0.9479	0.3088	59	-0.36	101.99	0
101	Acid Soluble Ca (21%)	0513	20.94	0.1200	21.27	0.9479	0.3088	59	-0.34	101.30	0
101	Acid Soluble Ca (21%)	0324	20.95	0.7000	21.27	0.9479	0.3088	59	-0.33	101.30	0
101	Acid Soluble Ca (21%)	0510	20.96	0.0357	21.27	0.9479	0.3088	59	-0.32	101.00	0
101	Acid Soluble Ca (21%)	0354	21.00	0.2000	21.27	0.9479	0.3088	59	-0.28	101.30	0
101	Acid Soluble Ca (21%)	0626	21.04	0.1700	21.27	0.9479	0.3088	59	-0.24	101.70	0
101	Acid Soluble Ca (21%)	0527	21.14	0.0053	21.27	0.9479	0.3088	59	-0.13	101.33	0
101	Acid Soluble Ca (21%)	0423	21.28	0.2870	21.27	0.9479	0.3088	59	0.02	101.32	0
101	Acid Soluble Ca (21%)	0561	21.29	0.1800	21.27	0.9479	0.3088	59	0.03	101.99	0
101	Acid Soluble Ca (21%)	0543	21.35	0.0300	21.27	0.9479	0.3088	59	0.08	101.33	0
101	Acid Soluble Ca (21%)	0564	21.35	0.1000	21.27	0.9479	0.3088	59	0.09	101.70	0
101	Acid Soluble Ca (21%)	0073	21.44	0.2100	21.27	0.9479	0.3088	59	0.18	101.00	0
101	Acid Soluble Ca (21%)	0035	21.45	0.5000	21.27	0.9479	0.3088	59	0.19	101.30	0
101	Acid Soluble Ca (21%)	0422	21.47	0.2100	21.27	0.9479	0.3088	59	0.21	101.30	0
101	Acid Soluble Ca (21%)	0605	21.51	0.0980	21.27	0.9479	0.3088	59	0.25	101.99	0
101	Acid Soluble Ca (21%)	0394	21.53	0.0310	21.27	0.9479	0.3088	59	0.28	101.33	0
101	Acid Soluble Ca (21%)	0368	21.55	0.6007	21.27	0.9479	0.3088	59	0.30	101.99	0
101	Acid Soluble Ca (21%)	0485	21.55	0.5000	21.27	0.9479	0.3088	59	0.30	101.00	0
101	Acid Soluble Ca (21%)	0095	21.56	0.1700	21.27	0.9479	0.3088	59	0.31	101.32	0
101	Acid Soluble Ca (21%)	0619	21.60	0.4000	21.27	0.9479	0.3088	59	0.35	101.30	0
101	Acid Soluble Ca (21%)	0619	21.60	0.4000	21.27	0.9479	0.3088	59	0.35	101.99	0
101	Acid Soluble Ca (21%)	0584	21.61	0.3300	21.27	0.9479	0.3088	59	0.36	101.99	0
101	Acid Soluble Ca (21%)	0517	21.70	0.2000	21.27	0.9479	0.3088	59	0.46	101.99	0
101	Acid Soluble Ca (21%)	0023	21.71	0.1180	21.27	0.9479	0.3088	59	0.47	101.99	0
101	Acid Soluble Ca (21%)	0025	21.75	1.500	21.27	0.9479	0.3088	59	0.51	101.33	0
101	Acid Soluble Ca (21%)	0231	21.90	0.0000	21.27	0.9479	0.3088	59	0.67	101.99	0
101	Acid Soluble Ca (21%)	0389	21.90	0.2000	21.27	0.9479	0.3088	59	0.67	101.99	0
101	Acid Soluble Ca (21%)	0588	21.91	0.5000	21.27	0.9479	0.3088	59	0.68	101.33	0
101	Acid Soluble Ca (21%)	0421	21.98	1.080	21.27	0.9479	0.3088	59	0.75	101.33	0
101	Acid Soluble Ca (21%)	0444	22.04	0.1900	21.27	0.9479	0.3088	59	0.81	101.30	0
101	Acid Soluble Ca (21%)	0494	22.09	0.2970	21.27	0.9479	0.3088	59	0.87	101.99	0
101	Acid Soluble Ca (21%)	0472	22.58‡	0.1300	21.27	0.9479	0.3088	59	1.38	101.33	0
101	Acid Soluble Ca (21%)	0291	22.77‡	0.0100	21.27	0.9479	0.3088	59	1.58	101.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
101	Acid Soluble Ca (21%)	0515	22.86‡	2.190	21.27	0.9479	0.3088	59	1.68	101.33	0
101	Acid Soluble Ca (21%)	0049	23.05‡	0.1900	21.27	0.9479	0.3088	59	1.88	101.30	0
101	Acid Soluble Ca (21%)	0452	23.11‡	0.1900	21.27	0.9479	0.3088	59	1.94	101.32	0
101	Acid Soluble Ca (21%)	0234	23.27‡	0.2600	21.27	0.9479	0.3088	59	2.11	101.30	0
101	Acid Soluble Ca (21%)	0521	23.28‡	0.0000	21.27	0.9479	0.3088	59	2.12	101.33	0
101	Acid Soluble Ca (21%)	0027	23.70‡	0.6700	21.27	0.9479	0.3088	59	2.56	101.99	0
101	Acid Soluble Ca (21%)	0515	20.86	8.040	21.27	0.9479	0.3088	59	-0.43	101.99	1
101	Acid Soluble Ca (21%)	0542	11.88†	3.964	21.27	0.9479	0.3088	59	-9.90	101.99	2
121	Acid Soluble Mg (%)	0472	0.0450	0.0100	0.1080	0.0176	0.0082	10	-3.33	121.33	0
121	Acid Soluble Mg (%)	0524	0.0955	0.0007	0.1080	0.0176	0.0082	10	-0.66	121.99	0
121	Acid Soluble Mg (%)	0422	0.0980	0.0000	0.1080	0.0176	0.0082	10	-0.53	121.30	0
121	Acid Soluble Mg (%)	0568	0.0990	0.0000	0.1080	0.0176	0.0082	10	-0.48	121.30	0
121	Acid Soluble Mg (%)	0035	0.1030	0.0120	0.1080	0.0176	0.0082	10	-0.27	121.30	0
121	Acid Soluble Mg (%)	0354	0.1100	0.0000	0.1080	0.0176	0.0082	10	0.10	121.30	0
121	Acid Soluble Mg (%)	0542	0.1132	0.0049	0.1080	0.0176	0.0082	10	0.27	121.99	0
121	Acid Soluble Mg (%)	0527	0.1224	0.0010	0.1080	0.0176	0.0082	10	0.76	121.33	0
121	Acid Soluble Mg (%)	0515	0.1289	0.0105	0.1080	0.0176	0.0082	10	1.10	121.99	0
121	Acid Soluble Mg (%)	0515	0.1290	0.0186	0.1080	0.0176	0.0082	10	1.11	121.33	0
143	Elemental S (%)	0405	0.5520	0.0280	15.19	2.513	0.3237	7	-5.27	143.00	0
143	Elemental S (%)	0537	13.80	0.1900	15.19	2.513	0.3237	7	-0.50	143.99	0
143	Elemental S (%)	0531	13.85	0.1000	15.19	2.513	0.3237	7	-0.48	143.99	0
143	Elemental S (%)	0291	16.41	0.0100	15.19	2.513	0.3237	7	0.44	143.99	0
143	Elemental S (%)	0255	16.50	0.9800	15.19	2.513	0.3237	7	0.47	143.99	0
143	Elemental S (%)	0389	16.70	0.0000	15.19	2.513	0.3237	7	0.54	143.99	0
143	Elemental S (%)	0368	17.65	0.6340	15.19	2.513	0.3237	7	0.88	143.99	0
143	Elemental S (%)	0485	< 0.01		15.19	2.513	0.3237	7		143.00	5
145	Sulfate S, HCl soluble (%)	0537	4.040	0.1000	16.02	1.490	0.1309	14	-8.04	145.00	0
145	Sulfate S, HCl soluble (%)	0531	4.050	0.1000	16.02	1.490	0.1309	14	-8.03	145.00	0
145	Sulfate S, HCl soluble (%)	0531	4.050	0.1000	16.02	1.490	0.1309	14	-8.03	145.99	0
145	Sulfate S, HCl soluble (%)	0444	15.43	0.1700	16.02	1.490	0.1309	14	-0.40	145.99	0
145	Sulfate S, HCl soluble (%)	0626	15.92	0.0500	16.02	1.490	0.1309	14	-0.07	145.00	0
145	Sulfate S, HCl soluble (%)	0027	16.35	0.2900	16.02	1.490	0.1309	14	0.22	145.00	0
145	Sulfate S, HCl soluble (%)	0029	16.50	0.0200	16.02	1.490	0.1309	14	0.32	145.00	0
145	Sulfate S, HCl soluble (%)	0485	16.50	0.8000	16.02	1.490	0.1309	14	0.32	145.00	0
145	Sulfate S, HCl soluble (%)	0405	16.74	0.0000	16.02	1.490	0.1309	14	0.48	145.00	0
145	Sulfate S, HCl soluble (%)	0553	16.85	0.9400	16.02	1.490	0.1309	14	0.56	145.99	0
145	Sulfate S, HCl soluble (%)	0561	16.90	0.0100	16.02	1.490	0.1309	14	0.59	145.00	0
145	Sulfate S, HCl soluble (%)	0619	17.15	0.1000	16.02	1.490	0.1309	14	0.76	145.99	0
145	Sulfate S, HCl soluble (%)	0564	17.24	0.0200	16.02	1.490	0.1309	14	0.82	145.00	0
145	Sulfate S, HCl soluble (%)	0635	17.35	0.1000	16.02	1.490	0.1309	14	0.89	145.00	0
148	Total S (17%)	0515	14.32†	0.1600	16.67	0.5980	0.1824	43	-3.93	148.07	0
148	Total S (17%)	0421	14.70†	0.4000	16.67	0.5980	0.1824	43	-3.30	148.07	0
148	Total S (17%)	0394	15.38†	0.2310	16.67	0.5980	0.1824	43	-2.16	148.07	0



Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
148	Total S (17%)	0102	15.80	0.0400	16.67	0.5980	0.1824	43	-1.46	148.01	0
148	Total S (17%)	0049	15.81	0.0900	16.67	0.5980	0.1824	43	-1.45	148.00	0
148	Total S (17%)	0073	15.85	0.0400	16.67	0.5980	0.1824	43	-1.37	148.01	0
148	Total S (17%)	0354	15.85	0.3000	16.67	0.5980	0.1824	43	-1.37	148.99	0
148	Total S (17%)	0494	16.01	0.1509	16.67	0.5980	0.1824	43	-1.11	148.07	0
148	Total S (17%)	0444	16.22	0.1700	16.67	0.5980	0.1824	43	-0.76	148.07	0
148	Total S (17%)	0472	16.22	0.0400	16.67	0.5980	0.1824	43	-0.75	148.07	0
148	Total S (17%)	0177	16.27	0.1864	16.67	0.5980	0.1824	43	-0.68	148.07	0
148	Total S (17%)	0040	16.30	0.4000	16.67	0.5980	0.1824	43	-0.62	148.07	0
148	Total S (17%)	0324	16.35	0.9000	16.67	0.5980	0.1824	43	-0.54	148.01	0
148	Total S (17%)	0231	16.38	0.0600	16.67	0.5980	0.1824	43	-0.49	148.01	0
148	Total S (17%)	0029	16.50	0.0200	16.67	0.5980	0.1824	43	-0.29	148.01	0
148	Total S (17%)	0422	16.58	0.0000	16.67	0.5980	0.1824	43	-0.15	148.99	0
148	Total S (17%)	0494	16.60	0.0996	16.67	0.5980	0.1824	43	-0.13	148.99	0
148	Total S (17%)	0485	16.60	1.000	16.67	0.5980	0.1824	43	-0.12	148.01	0
148	Total S (17%)	0377	16.68	0.8700	16.67	0.5980	0.1824	43	0.01	148.99	0
148	Total S (17%)	0513	16.69	0.1100	16.67	0.5980	0.1824	43	0.02	148.07	0
148	Total S (17%)	0157	16.70	0.2000	16.67	0.5980	0.1824	43	0.05	148.01	0
148	Total S (17%)	0543	16.74	0.6400	16.67	0.5980	0.1824	43	0.11	148.07	0
148	Total S (17%)	0035	16.85	0.5000	16.67	0.5980	0.1824	43	0.30	148.07	0
148	Total S (17%)	0577	16.87	0.0800	16.67	0.5980	0.1824	43	0.33	148.99	0
148	Total S (17%)	0626	16.88	0.0500	16.67	0.5980	0.1824	43	0.34	148.00	0
148	Total S (17%)	0136	16.90	0.0000	16.67	0.5980	0.1824	43	0.38	148.99	0
148	Total S (17%)	0531	16.90	0.2000	16.67	0.5980	0.1824	43	0.38	148.99	0
148	Total S (17%)	0537	16.92	0.2700	16.67	0.5980	0.1824	43	0.41	148.99	0
148	Total S (17%)	0220	16.94	0.0600	16.67	0.5980	0.1824	43	0.45	148.99	0
148	Total S (17%)	0451	16.95	0.1000	16.67	0.5980	0.1824	43	0.47	148.00	0
148	Total S (17%)	0055	17.00	0.2100	16.67	0.5980	0.1824	43	0.54	148.01	0
148	Total S (17%)	0023	17.07	0.3030	16.67	0.5980	0.1824	43	0.67	148.99	0
148	Total S (17%)	0452	17.15	0.2000	16.67	0.5980	0.1824	43	0.80	148.07	0
148	Total S (17%)	0619	17.15	0.1000	16.67	0.5980	0.1824	43	0.80	148.07	0
148	Total S (17%)	0619	17.15	0.1000	16.67	0.5980	0.1824	43	0.80	148.99	0
148	Total S (17%)	0527	17.22	0.0620	16.67	0.5980	0.1824	43	0.92	148.07	0
148	Total S (17%)	0605	17.25	0.1020	16.67	0.5980	0.1824	43	0.97	148.99	0
148	Total S (17%)	0292	17.28	0.0100	16.67	0.5980	0.1824	43	1.01	148.07	0
148	Total S (17%)	0405	17.29	0.0200	16.67	0.5980	0.1824	43	1.04	148.01	0
148	Total S (17%)	0564	17.31	0.0200	16.67	0.5980	0.1824	43	1.07	148.01	0
148	Total S (17%)	0584	17.38	0.2800	16.67	0.5980	0.1824	43	1.19	148.01	0
148	Total S (17%)	0405	17.40	0.0000	16.67	0.5980	0.1824	43	1.22	148.00	0
148	Total S (17%)	0043	17.90‡	0.3500	16.67	0.5980	0.1824	43	2.05	148.99	0
148	Total S (17%)	0131	7.865†	2.610	16.67	0.5980	0.1824	43	-14.73	148.00	1
148	Total S (17%)	0542	9.219†	3.583	16.67	0.5980	0.1824	43	-12.46	148.99	1
149	S - HNO3 soluble (%)	0524	10.33	0.5734	17.26	0.4735	0.2667	6	-13.03	149.04	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
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149	S - HNO3 soluble (%)	0423	17.15	0.0800	17.26	0.4735	0.2667	6	-0.20	149.04	0
149	S - HNO3 soluble (%)	0521	17.27	0.0000	17.26	0.4735	0.2667	6	0.03	149.04	0
149	S - HNO3 soluble (%)	0619	17.30	0.2000	17.26	0.4735	0.2667	6	0.08	149.04	0
149	S - HNO3 soluble (%)	0619	17.30	0.2000	17.26	0.4735	0.2667	6	0.08	149.99	0
149	S - HNO3 soluble (%)	0588	18.02	0.2800	17.26	0.4735	0.2667	6	1.44	149.04	0
151	Acid Soluble As (ppm)	0220	0.3000	0.0000	5.375	11.22	0.8654	5	-0.45	151.32	0
151	Acid Soluble As (ppm)	0220	0.3000	0.0000	5.375	11.22	0.8654	5	-0.45	151.99	0
151	Acid Soluble As (ppm)	0524	0.3909	0.0141	5.375	11.22	0.8654	5	-0.44	151.30	0
151	Acid Soluble As (ppm)	0086	0.4460	0.0620	5.375	11.22	0.8654	5	-0.44	151.32	0
151	Acid Soluble As (ppm)	0515	25.44	2.520	5.375	11.22	0.8654	5	1.79	151.33	0
151	Acid Soluble As (ppm)	0515	2.995	3.377	5.375	11.22	0.8654	5	-0.21	151.34	1
151	Acid Soluble As (ppm)	0255	0.0000	0.0000	5.375	11.22	0.8654	5		151.30	4
151	Acid Soluble As (ppm)	0527	< 0.0001		5.375	11.22	0.8654	5		151.33	5
151	Acid Soluble As (ppm)	0368	< 0.4		5.375	11.22	0.8654	5		151.34	5
151	Acid Soluble As (ppm)	0626	< 0.5		5.375	11.22	0.8654	5		151.00	5
151	Acid Soluble As (ppm)	0481	< 0.5		5.375	11.22	0.8654	5		151.99	5
151	Acid Soluble As (ppm)	0136	< 1		5.375	11.22	0.8654	5		151.33	5
151	Acid Soluble As (ppm)	0405	< 3		5.375	11.22	0.8654	5		151.32	5
151	Acid Soluble As (ppm)	0605	< 6.25		5.375	11.22	0.8654	5		151.30	5
165	Acid Soluble B (%)	0542	0.0004	0.0000	0.0030	0.0047	0.0001	4	-0.46	165.99	0
165	Acid Soluble B (%)	0524	0.0005	0.0001	0.0030	0.0047	0.0001	4	-0.45	165.99	0
165	Acid Soluble B (%)	0422	0.0010	0.0000	0.0030	0.0047	0.0001	4	-0.35	165.30	0
165	Acid Soluble B (%)	0472	0.0100	0.0000	0.0030	0.0047	0.0001	4	1.27	165.99	0
165	Acid Soluble B (%)	0354	< 0.01		0.0030	0.0047	0.0001	4		165.30	5
165	Acid Soluble B (%)	0527	< 0.01		0.0030	0.0047	0.0001	4		165.99	5
181	Acid Soluble Cd (ppm)	0394	0.0845	0.0010	0.1086	0.0164	0.0051	5	-1.47	181.30	0
181	Acid Soluble Cd (ppm)	0368	0.1000	0.0000	0.1086	0.0164	0.0051	5	-0.53	181.34	0
181	Acid Soluble Cd (ppm)	0524	0.1137	0.0044	0.1086	0.0164	0.0051	5	0.31	181.30	0
181	Acid Soluble Cd (ppm)	0220	0.1200	0.0000	0.1086	0.0164	0.0051	5	0.69	181.99	0
181	Acid Soluble Cd (ppm)	0220	0.1250	0.0100	0.1086	0.0164	0.0051	5	1.00	181.32	0
181	Acid Soluble Cd (ppm)	0255	0.0000	0.0000	0.1086	0.0164	0.0051	5		181.30	4
181	Acid Soluble Cd (ppm)	0527	< 0.0001		0.1086	0.0164	0.0051	5		181.33	5
181	Acid Soluble Cd (ppm)	0515	< 0.133		0.1086	0.0164	0.0051	5		181.34	5
181	Acid Soluble Cd (ppm)	0515	< 0.19		0.1086	0.0164	0.0051	5		181.33	5
181	Acid Soluble Cd (ppm)	0605	< 0.25		0.1086	0.0164	0.0051	5		181.30	5
181	Acid Soluble Cd (ppm)	0481	< 0.5		0.1086	0.0164	0.0051	5		181.99	5
181	Acid Soluble Cd (ppm)	0626	< 1		0.1086	0.0164	0.0051	5		181.30	5
181	Acid Soluble Cd (ppm)	0405	< 1		0.1086	0.0164	0.0051	5		181.32	5
181	Acid Soluble Cd (ppm)	0136	< 1		0.1086	0.0164	0.0051	5		181.33	5
191	Acid Soluble Cr (ppm)	0136	6.300	0.6000	10.50	2.928	0.7799	11	-1.44	191.33	0
191	Acid Soluble Cr (ppm)	0524	7.566	0.0253	10.50	2.928	0.7799	11	-1.00	191.30	0
191	Acid Soluble Cr (ppm)	0035	8.075	0.6700	10.50	2.928	0.7799	11	-0.83	191.30	0
191	Acid Soluble Cr (ppm)	0515	9.535	1.343	10.50	2.928	0.7799	11	-0.33	191.34	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
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191	Acid Soluble Cr (ppm)	0527	9.887	0.4721	10.50	2.928	0.7799	11	-0.21	191.33	0
191	Acid Soluble Cr (ppm)	0394	10.84	0.7040	10.50	2.928	0.7799	11	0.11	191.30	0
191	Acid Soluble Cr (ppm)	0220	10.95	0.1000	10.50	2.928	0.7799	11	0.15	191.99	0
191	Acid Soluble Cr (ppm)	0220	11.70	0.4000	10.50	2.928	0.7799	11	0.41	191.32	0
191	Acid Soluble Cr (ppm)	0605	12.28	1.605	10.50	2.928	0.7799	11	0.61	191.30	0
191	Acid Soluble Cr (ppm)	0405	13.50	1.000	10.50	2.928	0.7799	11	1.02	191.32	0
191	Acid Soluble Cr (ppm)	0515	22.32	1.660	10.50	2.928	0.7799	11	4.04	191.33	0
191	Acid Soluble Cr (ppm)	0368	7.550	4.700	10.50	2.928	0.7799	11	-1.01	191.34	1
191	Acid Soluble Cr (ppm)	0626	< 5		10.50	2.928	0.7799	11		191.30	5
191	Acid Soluble Cr (ppm)	0481	< 20		10.50	2.928	0.7799	11		191.99	5
202	Acid Soluble Co (ppm)	0368	0.8500	0.1000	3.008	1.218	0.2116	11	-1.77	202.34	0
202	Acid Soluble Co (ppm)	0220	1.750	0.1000	3.008	1.218	0.2116	11	-1.03	202.32	0
202	Acid Soluble Co (ppm)	0220	2.050	0.1000	3.008	1.218	0.2116	11	-0.79	202.99	0
202	Acid Soluble Co (ppm)	0527	2.427	0.3607	3.008	1.218	0.2116	11	-0.48	202.33	0
202	Acid Soluble Co (ppm)	0405	3.000	0.0000	3.008	1.218	0.2116	11	-0.01	202.32	0
202	Acid Soluble Co (ppm)	0605	3.084	0.3110	3.008	1.218	0.2116	11	0.06	202.30	0
202	Acid Soluble Co (ppm)	0037	3.380	0.0329	3.008	1.218	0.2116	11	0.31	202.33	0
202	Acid Soluble Co (ppm)	0515	3.690	0.5710	3.008	1.218	0.2116	11	0.56	202.33	0
202	Acid Soluble Co (ppm)	0524	3.731	0.2710	3.008	1.218	0.2116	11	0.59	202.30	0
202	Acid Soluble Co (ppm)	0542	3.958	0.3350	3.008	1.218	0.2116	11	0.78	202.30	0
202	Acid Soluble Co (ppm)	0255	6.846	0.0220	3.008	1.218	0.2116	11	3.15	202.99	0
202	Acid Soluble Co (ppm)	0515	< 0.139		3.008	1.218	0.2116	11		202.34	5
202	Acid Soluble Co (ppm)	0136	< 2.5		3.008	1.218	0.2116	11		202.33	5
202	Acid Soluble Co (ppm)	0626	< 5		3.008	1.218	0.2116	11		202.30	5
221	Acid Soluble Cu (%)	0527	0.0002	0.0000	0.0003	0.0001	0.0003	5	-1.23	221.33	0
221	Acid Soluble Cu (%)	0035	0.0003	0.0000	0.0003	0.0001	0.0003	5	-0.11	221.30	0
221	Acid Soluble Cu (%)	0515	0.0003	0.0000	0.0003	0.0001	0.0003	5	-0.11	221.33	0
221	Acid Soluble Cu (%)	0524	0.0003	0.0000	0.0003	0.0001	0.0003	5	-0.11	221.99	0
221	Acid Soluble Cu (%)	0515	0.0005	0.0003	0.0003	0.0001	0.0003	5	1.57	221.99	0
221	Acid Soluble Cu (%)	0255	0.0000	0.0000	0.0003	0.0001	0.0003	5		221.30	4
221	Acid Soluble Cu (%)	0422	0.0000	0.0000	0.0003	0.0001	0.0003	5		221.30	4
221	Acid Soluble Cu (%)	0368	0.0000	0.0000	0.0003	0.0001	0.0003	5		221.99	4
221	Acid Soluble Cu (%)	0405	< 0.0002		0.0003	0.0001	0.0003	5		221.32	5
221	Acid Soluble Cu (%)	0136	< 0.0002		0.0003	0.0001	0.0003	5		221.33	5
221	Acid Soluble Cu (%)	0394	< 0.0002		0.0003	0.0001	0.0003	5		221.33	5
221	Acid Soluble Cu (%)	0626	< 0.0005		0.0003	0.0001	0.0003	5		221.30	5
221	Acid Soluble Cu (%)	0354	< 0.01		0.0003	0.0001	0.0003	5		221.30	5
221	Acid Soluble Cu (%)	0481	< 0.01		0.0003	0.0001	0.0003	5		221.99	5
221	Acid Soluble Cu (%)	0542	< 0.015		0.0003	0.0001	0.0003	5		221.99	5
241	Acid Soluble Fe (%)	0524	0.0661	0.0002	0.0906	0.0142	0.0086	9	-1.59	241.99	0
241	Acid Soluble Fe (%)	0035	0.0820	0.0120	0.0906	0.0142	0.0086	9	-0.56	241.30	0
241	Acid Soluble Fe (%)	0515	0.0835	0.0149	0.0906	0.0142	0.0086	9	-0.46	241.99	0
241	Acid Soluble Fe (%)	0354	0.0850	0.0100	0.0906	0.0142	0.0086	9	-0.36	241.30	0



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			Value	Range	Rob Mean	Rob SD	Rob R-bar				
241	Acid Soluble Fe (%)	0422	0.0905	0.0010	0.0906	0.0142	0.0086	9	0.00	241.30	0
241	Acid Soluble Fe (%)	0515	0.0920	0.0319	0.0906	0.0142	0.0086	9	0.09	241.33	0
241	Acid Soluble Fe (%)	0542	0.0978	0.0040	0.0906	0.0142	0.0086	9	0.47	241.99	0
241	Acid Soluble Fe (%)	0527	0.1052	0.0058	0.0906	0.0142	0.0086	9	0.95	241.33	0
241	Acid Soluble Fe (%)	0472	0.1100	0.0000	0.0906	0.0142	0.0086	9	1.26	241.33	0
251	Acid Soluble Pb (ppm)	0515	0.0002	0.0001	0.4942	0.3173	0.0315	5	-1.56	251.33	0
251	Acid Soluble Pb (ppm)	0394	0.4155	0.0730	0.4942	0.3173	0.0315	5	-0.25	251.30	0
251	Acid Soluble Pb (ppm)	0527	0.5362	0.0230	0.4942	0.3173	0.0315	5	0.13	251.33	0
251	Acid Soluble Pb (ppm)	0524	0.6890	0.0013	0.4942	0.3173	0.0315	5	0.61	251.30	0
251	Acid Soluble Pb (ppm)	0220	0.8300	0.0600	0.4942	0.3173	0.0315	5	1.06	251.99	0
251	Acid Soluble Pb (ppm)	0220	0.7300	0.1200	0.4942	0.3173	0.0315	5	0.74	251.32	1
251	Acid Soluble Pb (ppm)	0255	0.0000	0.0000	0.4942	0.3173	0.0315	5		251.30	4
251	Acid Soluble Pb (ppm)	0368	< 0.7		0.4942	0.3173	0.0315	5		251.34	5
251	Acid Soluble Pb (ppm)	0481	< 1		0.4942	0.3173	0.0315	5		251.99	5
251	Acid Soluble Pb (ppm)	0136	< 3		0.4942	0.3173	0.0315	5		251.33	5
251	Acid Soluble Pb (ppm)	0405	< 4		0.4942	0.3173	0.0315	5		251.32	5
251	Acid Soluble Pb (ppm)	0626	< 5		0.4942	0.3173	0.0315	5		251.30	5
251	Acid Soluble Pb (ppm)	0605	< 6.25		0.4942	0.3173	0.0315	5		251.30	5
261	Acid Soluble Mn (%)	0524	0.0027	0.0000	0.0034	0.0007	0.0003	6	-0.83	261.99	0
261	Acid Soluble Mn (%)	0035	0.0030	0.0003	0.0034	0.0007	0.0003	6	-0.52	261.30	0
261	Acid Soluble Mn (%)	0422	0.0030	0.0000	0.0034	0.0007	0.0003	6	-0.46	261.30	0
261	Acid Soluble Mn (%)	0542	0.0033	0.0000	0.0034	0.0007	0.0003	6	-0.08	261.99	0
261	Acid Soluble Mn (%)	0527	0.0040	0.0001	0.0034	0.0007	0.0003	6	0.73	261.35	0
261	Acid Soluble Mn (%)	0515	0.0043	0.0004	0.0034	0.0007	0.0003	6	1.17	261.35	0
261	Acid Soluble Mn (%)	0354	< 0.01		0.0034	0.0007	0.0003	6		261.30	5
281	Acid Soluble Hg (ppm)	0086	0.1795	0.0150	0.2153	0.0429	0.0127	4	-0.71	281.99	0
281	Acid Soluble Hg (ppm)	0626	0.1895	0.0050	0.2153	0.0429	0.0127	4	-0.51	281.99	0
281	Acid Soluble Hg (ppm)	0524	0.2174	0.0009	0.2153	0.0429	0.0127	4	0.04	281.99	0
281	Acid Soluble Hg (ppm)	0220	0.2750	0.0300	0.2153	0.0429	0.0127	4	1.18	281.99	0
281	Acid Soluble Hg (ppm)	0527	< 0.001		0.2153	0.0429	0.0127	4		281.30	5
281	Acid Soluble Hg (ppm)	0515	< 0.1		0.2153	0.0429	0.0127	4		281.30	5
281	Acid Soluble Hg (ppm)	0481	< 0.5		0.2153	0.0429	0.0127	4		281.00	5
281	Acid Soluble Hg (ppm)	0605	< 1.25		0.2153	0.0429	0.0127	4		281.30	5
281	Acid Soluble Hg (ppm)	0405	< 2		0.2153	0.0429	0.0127	4		281.30	5
289	Acid Soluble Mo (ppm)	0524	0.1379	0.0612	0.7521	0.6196	0.2028	7	-0.99	289.30	0
289	Acid Soluble Mo (ppm)	0220	0.2500	0.0000	0.7521	0.6196	0.2028	7	-0.81	289.99	0
289	Acid Soluble Mo (ppm)	0220	0.3450	0.1100	0.7521	0.6196	0.2028	7	-0.66	289.32	0
289	Acid Soluble Mo (ppm)	0368	0.8500	0.1000	0.7521	0.6196	0.2028	7	0.16	289.34	0
289	Acid Soluble Mo (ppm)	0234	1.000	0.0000	0.7521	0.6196	0.2028	7	0.40	289.30	0
289	Acid Soluble Mo (ppm)	0405	1.000	0.0000	0.7521	0.6196	0.2028	7	0.40	289.32	0
289	Acid Soluble Mo (ppm)	0542	1.943	0.5400	0.7521	0.6196	0.2028	7	1.92	289.30	0
289	Acid Soluble Mo (ppm)	0255	1.045	1.270	0.7521	0.6196	0.2028	7	0.47	289.30	1
289	Acid Soluble Mo (ppm)	0527	< 0.0001		0.7521	0.6196	0.2028	7		289.33	5

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			Value	Range	Rob Mean	Rob SD	Rob R-bar				
289	Acid Soluble Mo (ppm)	0515	< 0.23		0.7521	0.6196	0.2028	7		289.33	5
289	Acid Soluble Mo (ppm)	0136	< 2.5		0.7521	0.6196	0.2028	7		289.33	5
289	Acid Soluble Mo (ppm)	0626	< 10		0.7521	0.6196	0.2028	7		289.30	5
291	Acid Soluble Ni (ppm)	0035	2.525	0.3500	3.755	0.8600	0.4023	13	-1.43	291.30	0
291	Acid Soluble Ni (ppm)	0368	2.700	0.0000	3.755	0.8600	0.4023	13	-1.23	291.34	0
291	Acid Soluble Ni (ppm)	0394	3.339	0.2350	3.755	0.8600	0.4023	13	-0.48	291.30	0
291	Acid Soluble Ni (ppm)	0527	3.463	0.0858	3.755	0.8600	0.4023	13	-0.34	291.33	0
291	Acid Soluble Ni (ppm)	0524	3.482	0.0227	3.755	0.8600	0.4023	13	-0.32	291.30	0
291	Acid Soluble Ni (ppm)	0220	3.550	0.1000	3.755	0.8600	0.4023	13	-0.24	291.99	0
291	Acid Soluble Ni (ppm)	0515	3.585	2.274	3.755	0.8600	0.4023	13	-0.20	291.34	0
291	Acid Soluble Ni (ppm)	0136	3.650	0.3000	3.755	0.8600	0.4023	13	-0.12	291.33	0
291	Acid Soluble Ni (ppm)	0605	3.926	0.0610	3.755	0.8600	0.4023	13	0.20	291.30	0
291	Acid Soluble Ni (ppm)	0220	4.250	0.1000	3.755	0.8600	0.4023	13	0.58	291.32	0
291	Acid Soluble Ni (ppm)	0542	4.261	0.0920	3.755	0.8600	0.4023	13	0.59	291.30	0
291	Acid Soluble Ni (ppm)	0037	5.059	1.083	3.755	0.8600	0.4023	13	1.52	291.33	0
291	Acid Soluble Ni (ppm)	0405	6.500	3.000	3.755	0.8600	0.4023	13	3.19	291.32	0
291	Acid Soluble Ni (ppm)	0515	14.85	7.200	3.755	0.8600	0.4023	13	12.90	291.33	1
291	Acid Soluble Ni (ppm)	0255	0.0000	0.0000	3.755	0.8600	0.4023	13		291.99	4
291	Acid Soluble Ni (ppm)	0626	< 5		3.755	0.8600	0.4023	13		291.30	5
301	Acid Soluble Se (ppm)	0481	1.945	0.2500	2.891	0.3467	0.1982	8	-2.73	301.99	0
301	Acid Soluble Se (ppm)	0086	2.630	0.1030	2.891	0.3467	0.1982	8	-0.75	301.32	0
301	Acid Soluble Se (ppm)	0524	2.810	0.1179	2.891	0.3467	0.1982	8	-0.23	301.30	0
301	Acid Soluble Se (ppm)	0220	2.925	0.0900	2.891	0.3467	0.1982	8	0.10	301.99	0
301	Acid Soluble Se (ppm)	0220	2.935	0.1300	2.891	0.3467	0.1982	8	0.13	301.32	0
301	Acid Soluble Se (ppm)	0626	2.950	0.1000	2.891	0.3467	0.1982	8	0.17	301.00	0
301	Acid Soluble Se (ppm)	0515	3.096	0.4870	2.891	0.3467	0.1982	8	0.59	301.34	0
301	Acid Soluble Se (ppm)	0515	6.242	0.3690	2.891	0.3467	0.1982	8	9.67	301.33	0
301	Acid Soluble Se (ppm)	0368	5.450	1.700	2.891	0.3467	0.1982	8	7.38	301.34	1
301	Acid Soluble Se (ppm)	0255	0.0000	0.0000	2.891	0.3467	0.1982	8		301.99	4
301	Acid Soluble Se (ppm)	0527	< 0.01		2.891	0.3467	0.1982	8		301.33	5
301	Acid Soluble Se (ppm)	0605	< 6.25		2.891	0.3467	0.1982	8		301.30	5
301	Acid Soluble Se (ppm)	0405	< 10		2.891	0.3467	0.1982	8		301.32	5
311	Sodium (%)	0422	0.0020	0.0000	0.0109	0.0092	0.0098	4	-0.97	311.32	0
311	Sodium (%)	0542	0.0041	0.0003	0.0109	0.0092	0.0098	4	-0.75	311.99	0
311	Sodium (%)	0035	0.0175	0.0090	0.0109	0.0092	0.0098	4	0.72	311.33	0
311	Sodium (%)	0354	0.0200	0.0200	0.0109	0.0092	0.0098	4	0.99	311.99	0
311	Sodium (%)	0527	< 0.01		0.0109	0.0092	0.0098	4		311.33	5
321	Acid Soluble Zn (%)	0394	0.0002	0.0000	0.0013	0.0006	0.0001	13	-1.71	321.33	0
321	Acid Soluble Zn (%)	0542	0.0007	0.0001	0.0013	0.0006	0.0001	13	-1.00	321.99	0
321	Acid Soluble Zn (%)	0405	0.0010	0.0001	0.0013	0.0006	0.0001	13	-0.52	321.32	0
321	Acid Soluble Zn (%)	0136	0.0010	0.0001	0.0013	0.0006	0.0001	13	-0.52	321.33	0
321	Acid Soluble Zn (%)	0524	0.0010	0.0001	0.0013	0.0006	0.0001	13	-0.52	321.99	0
321	Acid Soluble Zn (%)	0220	0.0012	0.0001	0.0013	0.0006	0.0001	13	-0.20	321.32	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
321	Acid Soluble Zn (%)	0515	0.0012	0.0001	0.0013	0.0006	0.0001	13	-0.20	321.33	0
321	Acid Soluble Zn (%)	0035	0.0012	0.0000	0.0013	0.0006	0.0001	13	-0.12	321.30	0
321	Acid Soluble Zn (%)	0527	0.0015	0.0001	0.0013	0.0006	0.0001	13	0.27	321.33	0
321	Acid Soluble Zn (%)	0515	0.0016	0.0030	0.0013	0.0006	0.0001	13	0.51	321.99	0
321	Acid Soluble Zn (%)	0255	0.0020	0.0000	0.0013	0.0006	0.0001	13	1.15	321.30	0
321	Acid Soluble Zn (%)	0422	0.0020	0.0000	0.0013	0.0006	0.0001	13	1.15	321.30	0
321	Acid Soluble Zn (%)	0472	0.0100	0.0000	0.0013	0.0006	0.0001	13	13.87	321.33	0
321	Acid Soluble Zn (%)	0368	0.0038	0.0066	0.0013	0.0006	0.0001	13	4.01	321.99	1
321	Acid Soluble Zn (%)	0354	< 0.01		0.0013	0.0006	0.0001	13		321.30	5
321	Acid Soluble Zn (%)	0481	< 0.01		0.0013	0.0006	0.0001	13		321.99	5

**Interpreting Z Scores and Flags:**

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.

**Notes:**

\*Robust statistics not used if < 6 labs used in calculations, in this case Values and Z Scores are grayed out and should be interpreted with extreme caution. Identical duplicates not included in calculation of Rob R-bar. 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.