

Analyte PT For All Labs

Sample # 221215

KCI

Magruder Fertilizer Proficiency Testing Program

Regular PT Scheme Sample Doubles with K Scheme

Statistical Summary

Analytes: 34

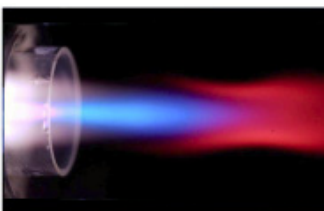
Labs Reporting: 81

Issue Date : 01/31/2023

Analyte Code	Analyte Sample # 221215	# 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 N (%)	2	2	0.0205	0.0262								
002	Nitrate N (%)	1		0.0020									
005	Urea N (%)	1		0.0400									
010	Total N (%)	5	5	0.0788	0.0618	0.0788	0.4900	0.0618	0.0346	78.42%	0.29	0.0156	5.86%
020	Total P2O5 (%)	5	3	0.0071	0.0102	0.0115		0.0117	0.0085	102.02%		0.0036	7.83%
041	Direct Available P2O5 (%)	4	2	0.0143	0.0106	0.0200	0.6700	0.0141	0.0125	70.71%	0.05	0.0100	7.21%
048	Water Soluble P2O5 (%)	1		0.0043									
050	Soluble K2O (62%)	83	82	61.40	2.147	61.42	1.7942	1.437	0.1984	2.34%	1.87	0.5197	1.28%
060	Water (Free) (%)	9	6	0.0760	0.0475	0.0757		0.0476	0.0243	62.89%		0.0078	5.90%
101	Acid Soluble Ca (%)	6	6	0.0863	0.0146	0.0863	0.2043	0.0166	0.0084	19.20%	0.19	0.0057	5.78%
121	Acid Soluble Mg (%)	6	5	0.0395	0.0081	0.0374	0.2019	0.0069	0.0039	18.57%	0.08	0.0010	6.56%
131	Water Soluble Mg (%)	1		0.0179									
145	Sulfate S, HCl soluble (%)	1		0.0440									
148	Total S (%)	5	5	0.0503	0.0177	0.0503	0.2025	0.0177	0.0099	35.13%	0.20	0.0130	6.27%
149	S - HNO3 soluble (%)	1		0.0277									
151	Acid Soluble As (ppm)	14	6	0.6580	0.7426	0.3292		0.1124	0.0574	34.16%		0.0754	18.91%
165	Acid Soluble B (%)	4	1	0.0055	0.0057	0.3292	0.0524	0.1124	0.1406	34.16%	5.00	0.0000	4.73%
171	Water Soluble B (%)	1		0.0122									
181	Acid Soluble Cd (ppm)	16	5	0.2619	0.3507	0.0220		0.0194	0.0108	88.09%		0.0031	22.00%
190	Water Soluble Cl (%)	21	20	48.32	3.576	47.63	1.0000	0.7932	0.2217	1.67%	1.85	0.2975	1.45%
191	Acid Soluble Cr (ppm)	16	13	2.159	4.785	0.8500		0.3879	0.1345	45.64%		0.1406	16.39%
202	Acid Soluble Co (ppm)	13	9	1.550	3.489	0.2583	1.0775	0.1219	0.0508	47.19%	0.26	0.2105	19.61%
221	Acid Soluble Cu (%)	14	5	0.0018	0.0028	0.0011	0.0051	0.0016	0.0009	143.72%	0.75	0.0000	11.09%
241	Acid Soluble Fe (%)	7	6	0.0675	0.0425	0.0864	0.0136	0.0183	0.0093	21.19%	3.13	0.0044	5.78%
251	Acid Soluble Pb (ppm)	17	9	0.7914	1.122	0.2600		0.0840	0.0350	32.30%		0.0442	19.59%
261	Acid Soluble Mn (%)	6	4	0.0032	0.0037	0.0011	0.0051	0.0003	0.0002	23.26%	0.11	0.0003	11.19%
281	Acid Soluble Hg (ppm)	9	5	0.2839	0.6639	0.0072		0.0115	0.0065	161.50%		0.0007	22.00%
289	Acid Soluble Mo (ppm)	13	7	2.434	4.315	3.576	2.0728	6.499	3.070	181.74%	7.31	0.2724	13.21%
291	Acid Soluble Ni (ppm)	15	11	1.930	4.129	0.6117		0.2576	0.0971	42.12%		0.1153	17.23%

Analyte Code	Analyte Sample # 221215	# 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
301	Acid Soluble Se (ppm)	11	6	1.367	2.943	0.1366		0.1390	0.0709	101.74%		0.0371	21.58%
311	Sodium (%)	21	21	1.341	0.4197	1.225	0.1275	0.0789	0.0215	6.44%	1.44	0.0306	3.88%
321	Acid Soluble Zn (%)	15	6	0.0021	0.0033	0.0011	0.0051	0.0008	0.0004	72.95%	0.36	0.0006	11.19%
325	Water Soluble Zn (%)	1		0.0004									
431	Soluble Si in nonliquids (%)	1		0.0074									

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. The Horwitz %RSD is calculated using the Thompson Modification, Analyst, 2000, 125, 385-386.



Analyte PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Analytes: 34

Sample # 221215

Regular PT Scheme Sample Doubles with K Scheme

Labs Reporting: 81

KCI

Lab Values

Issue Date : 01/31/2023

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
001	Ammoniacal N (%)	0553	0.0020	0.0000				2		001.99	0
001	Ammoniacal N (%)	0524	0.0390	0.0220				2		001.99	0
002	Nitrate N (%)	0553	< 0.002					0		002.99	5
005	Urea N (%)	0524	0.0400	0.0000				1		005.99	0
010	Total N (%)	0422	0.0100	0.0000	0.0788	0.0618	0.0156	5	-1.11	010.60	0
010	Total N (%)	0472	0.0200	0.0000	0.0788	0.0618	0.0156	5	-0.95	010.60	0
010	Total N (%)	0325	0.1000	0.0000	0.0788	0.0618	0.0156	5	0.34	010.60	0
010	Total N (%)	0354	0.1100	0.0020	0.0788	0.0618	0.0156	5	0.50	010.60	0
010	Total N (%)	0524	0.1541	0.0758	0.0788	0.0618	0.0156	5	1.22	010.99	0
020	Total P2O5 (%)	0524	0.0043	0.0001	0.0115	0.0117	0.0036	3	-0.62	020.50	0
020	Total P2O5 (%)	0572	0.0052	0.0006	0.0115	0.0117	0.0036	3	-0.54	020.99	0
020	Total P2O5 (%)	0472	0.0250	0.0100	0.0115	0.0117	0.0036	3	1.15	020.50	0
020	Total P2O5 (%)	0422	0.0000	0.0000	0.0115	0.0117	0.0036	3		020.50	4
020	Total P2O5 (%)	0588	< 0.001		0.0115	0.0117	0.0036	3		020.50	5
041	Direct Available P2O5 (%)	0568	0.0100	0.0000				2		041.21	0
041	Direct Available P2O5 (%)	0325	0.0300	0.0200				2		041.50	0
041	Direct Available P2O5 (%)	0553	< 0.007					2		041.20	5
041	Direct Available P2O5 (%)	0354	< 0.01					2		041.21	5
048	Water Soluble P2O5 (%)	0572	0.0043	0.0003				1		048.99	0
050	Soluble K2O (62%)	0472	53.30†	0.0000	61.42	1.437	0.5197	82	-5.65	050.32	0
050	Soluble K2O (62%)	0324	54.00†	2.800	61.42	1.437	0.5197	82	-5.16	050.50	0
050	Soluble K2O (62%)	0255	56.55†	0.3980	61.42	1.437	0.5197	82	-3.39	050.99	0
050	Soluble K2O (62%)	0106	58.08†	0.4200	61.42	1.437	0.5197	82	-2.32	050.50	0
050	Soluble K2O (62%)	0055	58.14†	0.3700	61.42	1.437	0.5197	82	-2.29	050.50	0
050	Soluble K2O (62%)	0117	58.69†	0.3802	61.42	1.437	0.5197	82	-1.90	050.52	0
050	Soluble K2O (62%)	0029	59.06†	0.0500	61.42	1.437	0.5197	82	-1.65	050.62	0
050	Soluble K2O (62%)	0260	59.20†	0.9000	61.42	1.437	0.5197	82	-1.54	050.99	0
050	Soluble K2O (62%)	0397	59.33†	0.0177	61.42	1.437	0.5197	82	-1.45	050.51	0
050	Soluble K2O (62%)	0073	59.52†	0.2700	61.42	1.437	0.5197	82	-1.33	050.30	0
050	Soluble K2O (62%)	0501	59.70	0.5600	61.42	1.437	0.5197	82	-1.20	050.99	0
050	Soluble K2O (62%)	0177	59.78	0.2721	61.42	1.437	0.5197	82	-1.14	050.99	0
050	Soluble K2O (62%)	0055	59.81	0.7300	61.42	1.437	0.5197	82	-1.12	050.00	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
050	Soluble K2O (62%)	0494	60.02	0.4200	61.42	1.437	0.5197	82	-0.97	050.00	0
050	Soluble K2O (62%)	0524	60.27	0.2030	61.42	1.437	0.5197	82	-0.80	050.99	0
050	Soluble K2O (62%)	0360	60.32	0.2400	61.42	1.437	0.5197	82	-0.77	050.52	0
050	Soluble K2O (62%)	0117	60.33	1.129	61.42	1.437	0.5197	82	-0.76	050.50	0
050	Soluble K2O (62%)	0590	60.42	0.0500	61.42	1.437	0.5197	82	-0.70	050.99	0
050	Soluble K2O (62%)	0095	60.43	3.090	61.42	1.437	0.5197	82	-0.69	050.62	0
050	Soluble K2O (62%)	0444	60.45	0.8900	61.42	1.437	0.5197	82	-0.68	050.50	0
050	Soluble K2O (62%)	0575	60.49	0.5100	61.42	1.437	0.5197	82	-0.65	050.99	0
050	Soluble K2O (62%)	0234	60.70	0.2000	61.42	1.437	0.5197	82	-0.50	050.99	0
050	Soluble K2O (62%)	0561	60.74	0.3200	61.42	1.437	0.5197	82	-0.47	050.99	0
050	Soluble K2O (62%)	0220	60.77	0.0700	61.42	1.437	0.5197	82	-0.46	050.00	0
050	Soluble K2O (62%)	0405	60.77	0.1100	61.42	1.437	0.5197	82	-0.46	050.00	0
050	Soluble K2O (62%)	0354	60.85	0.1000	61.42	1.437	0.5197	82	-0.40	050.52	0
050	Soluble K2O (62%)	0040	60.95	0.1000	61.42	1.437	0.5197	82	-0.33	050.30	0
050	Soluble K2O (62%)	0025	60.95	0.9000	61.42	1.437	0.5197	82	-0.33	050.52	0
050	Soluble K2O (62%)	0157	60.95	1.900	61.42	1.437	0.5197	82	-0.33	050.99	0
050	Soluble K2O (62%)	0023	61.05	0.5000	61.42	1.437	0.5197	82	-0.26	050.52	0
050	Soluble K2O (62%)	0389	61.15	0.1600	61.42	1.437	0.5197	82	-0.19	050.99	0
050	Soluble K2O (62%)	0307	61.17	1.000	61.42	1.437	0.5197	82	-0.17	050.99	0
050	Soluble K2O (62%)	0485	61.20	1.200	61.42	1.437	0.5197	82	-0.15	050.52	0
050	Soluble K2O (62%)	0476	61.22	0.1968	61.42	1.437	0.5197	82	-0.14	050.99	0
050	Soluble K2O (62%)	0037	61.24	1.339	61.42	1.437	0.5197	82	-0.12	050.52	0
050	Soluble K2O (62%)	0394	61.32	0.7740	61.42	1.437	0.5197	82	-0.07	050.99	0
050	Soluble K2O (62%)	0102	61.35	0.0000	61.42	1.437	0.5197	82	-0.05	050.00	0
050	Soluble K2O (62%)	0513	61.39	0.0200	61.42	1.437	0.5197	82	-0.02	050.62	0
050	Soluble K2O (62%)	0444	61.40	0.4000	61.42	1.437	0.5197	82	-0.01	050.00	0
050	Soluble K2O (62%)	0231	61.41	0.1100	61.42	1.437	0.5197	82	-0.01	050.00	0
050	Soluble K2O (62%)	0451	61.48	0.0700	61.42	1.437	0.5197	82	0.04	050.99	0
050	Soluble K2O (62%)	0325	61.50	1.000	61.42	1.437	0.5197	82	0.06	050.99	0
050	Soluble K2O (62%)	0291	61.51	0.0300	61.42	1.437	0.5197	82	0.06	050.51	0
050	Soluble K2O (62%)	0043	61.52	2.940	61.42	1.437	0.5197	82	0.07	050.52	0
050	Soluble K2O (62%)	0545	61.58	0.0400	61.42	1.437	0.5197	82	0.11	050.99	0
050	Soluble K2O (62%)	0533	61.69	0.2100	61.42	1.437	0.5197	82	0.18	050.99	0
050	Soluble K2O (62%)	0049	61.74	0.3700	61.42	1.437	0.5197	82	0.22	050.00	0
050	Soluble K2O (62%)	0553	61.80	0.0000	61.42	1.437	0.5197	82	0.26	050.99	0
050	Soluble K2O (62%)	0562	61.80	0.1000	61.42	1.437	0.5197	82	0.26	050.99	0
050	Soluble K2O (62%)	0558	61.81	0.0478	61.42	1.437	0.5197	82	0.27	050.99	0
050	Soluble K2O (62%)	0564	61.82	0.0700	61.42	1.437	0.5197	82	0.27	050.99	0
050	Soluble K2O (62%)	0565	61.84	0.0800	61.42	1.437	0.5197	82	0.29	050.99	0
050	Soluble K2O (62%)	0498	61.85	1.100	61.42	1.437	0.5197	82	0.30	050.99	0
050	Soluble K2O (62%)	0600	61.88	0.1500	61.42	1.437	0.5197	82	0.32	050.99	0
050	Soluble K2O (62%)	0510	61.88	0.2421	61.42	1.437	0.5197	82	0.32	050.60	0
050	Soluble K2O (62%)	0481	61.90	0.8500	61.42	1.437	0.5197	82	0.33	050.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
050	Soluble K2O (62%)	0560	61.90	0.0800	61.42	1.437	0.5197	82	0.33	050.99	0
050	Soluble K2O (62%)	0543	61.90	0.1740	61.42	1.437	0.5197	82	0.33	050.52	0
050	Soluble K2O (62%)	0423	62.00	0.5500	61.42	1.437	0.5197	82	0.40	050.52	0
050	Soluble K2O (62%)	0136	62.07	0.8200	61.42	1.437	0.5197	82	0.45	050.52	0
050	Soluble K2O (62%)	0521	62.14	2.410	61.42	1.437	0.5197	82	0.50	050.99	0
050	Soluble K2O (62%)	0538	62.15	0.1000	61.42	1.437	0.5197	82	0.51	050.99	0
050	Soluble K2O (62%)	0556	62.20	0.2000	61.42	1.437	0.5197	82	0.54	050.99	0
050	Soluble K2O (62%)	0169	62.21	0.0500	61.42	1.437	0.5197	82	0.55	050.50	0
050	Soluble K2O (62%)	0577	62.33	0.3900	61.42	1.437	0.5197	82	0.63	050.99	0
050	Soluble K2O (62%)	0035	62.35	1.900	61.42	1.437	0.5197	82	0.65	050.61	0
050	Soluble K2O (62%)	0540	62.40	0.4800	61.42	1.437	0.5197	82	0.68	050.99	0
050	Soluble K2O (62%)	0534	62.54	0.0000	61.42	1.437	0.5197	82	0.78	050.99	0
050	Soluble K2O (62%)	0114	62.63	0.5600	61.42	1.437	0.5197	82	0.84	050.00	0
050	Soluble K2O (62%)	0523	62.70	0.6000	61.42	1.437	0.5197	82	0.89	050.99	0
050	Soluble K2O (62%)	0368	63.10	0.2189	61.42	1.437	0.5197	82	1.17	050.51	0
050	Soluble K2O (62%)	0527	63.17	0.2429	61.42	1.437	0.5197	82	1.22	050.99	0
050	Soluble K2O (62%)	0027	63.44±	0.1900	61.42	1.437	0.5197	82	1.40	050.99	0
050	Soluble K2O (62%)	0421	63.55±	0.3000	61.42	1.437	0.5197	82	1.48	050.99	0
050	Soluble K2O (62%)	0377	64.23±	0.1300	61.42	1.437	0.5197	82	1.95	050.52	0
050	Soluble K2O (62%)	0568	64.30±	0.0000	61.42	1.437	0.5197	82	2.00	050.51	0
050	Soluble K2O (62%)	0548	64.30±	0.2000	61.42	1.437	0.5197	82	2.00	050.99	0
050	Soluble K2O (62%)	0422	64.43±	0.4337	61.42	1.437	0.5197	82	2.09	050.50	0
050	Soluble K2O (62%)	0041	64.59±	0.0500	61.42	1.437	0.5197	82	2.20	050.60	0
050	Soluble K2O (62%)	0572	64.88±	0.6260	61.42	1.437	0.5197	82	2.41	050.99	0
050	Soluble K2O (62%)	0588	67.55±	1.500	61.42	1.437	0.5197	82	4.27	050.99	0
050	Soluble K2O (62%)	0563	67.68±	0.0100	61.42	1.437	0.5197	82	4.35	050.99	0
050	Soluble K2O (62%)	0042	63.70±	6.400	61.42	1.437	0.5197	82	1.59	050.99	1
060	Water (Free) (%)	0394	0.0115	0.0010	0.0757	0.0476	0.0078	6	-1.20	060.30	0
060	Water (Free) (%)	0513	0.0480	0.0020	0.0757	0.0476	0.0078	6	-0.52	060.99	0
060	Water (Free) (%)	0561	0.0700	0.0000	0.0757	0.0476	0.0078	6	-0.11	060.30	0
060	Water (Free) (%)	0405	0.0955	0.0030	0.0757	0.0476	0.0078	6	0.37	060.99	0
060	Water (Free) (%)	0510	0.0991	0.0006	0.0757	0.0476	0.0078	6	0.44	060.99	0
060	Water (Free) (%)	0220	0.1300	0.0400	0.0757	0.0476	0.0078	6	1.02	060.30	0
060	Water (Free) (%)	0572	0.1298	0.1009	0.0757	0.0476	0.0078	6	1.01	060.99	1
060	Water (Free) (%)	0136	0.0000	0.0000	0.0757	0.0476	0.0078	6		060.99	4
060	Water (Free) (%)	0481	< 0.1		0.0757	0.0476	0.0078	6		060.99	5
101	Acid Soluble Ca (%)	0568	0.0695	0.0000	0.0863	0.0166	0.0057	6	-0.90	101.30	0
101	Acid Soluble Ca (%)	0035	0.0760	0.0000	0.0863	0.0166	0.0057	6	-0.55	101.30	0
101	Acid Soluble Ca (%)	0572	0.0800	0.0004	0.0863	0.0166	0.0057	6	-0.34	101.99	0
101	Acid Soluble Ca (%)	0553	0.0870	0.0040	0.0863	0.0166	0.0057	6	0.04	101.00	0
101	Acid Soluble Ca (%)	0354	0.0950	0.0100	0.0863	0.0166	0.0057	6	0.47	101.30	0
101	Acid Soluble Ca (%)	0472	0.1100	0.0200	0.0863	0.0166	0.0057	6	1.28	101.33	0
121	Acid Soluble Mg (%)	0553	0.0260	0.0020	0.0374	0.0069	0.0010	5	-1.43	121.00	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
121	Acid Soluble Mg (%)	0524	0.0369	0.0003	0.0374	0.0069	0.0010	5	-0.07	121.99	0
121	Acid Soluble Mg (%)	0568	0.0396	0.0000	0.0374	0.0069	0.0010	5	0.27	121.30	0
121	Acid Soluble Mg (%)	0572	0.0402	0.0015	0.0374	0.0069	0.0010	5	0.34	121.99	0
121	Acid Soluble Mg (%)	0035	0.0445	0.0010	0.0374	0.0069	0.0010	5	0.89	121.30	0
121	Acid Soluble Mg (%)	0354	0.0500	0.0200	0.0374	0.0069	0.0010	5	1.58	121.30	1
131	Water Soluble Mg (%)	0572	0.0179	0.0039				1		131.99	0
145	Sulfate S, HCl soluble (%)	0553	0.0440	0.0020				1		145.99	0
148	Total S (%)	0422	0.0342	0.0037	0.0503	0.0177	0.0130	5	-0.92	148.99	0
148	Total S (%)	0035	0.0390	0.0040	0.0503	0.0177	0.0130	5	-0.64	148.07	0
148	Total S (%)	0472	0.0400	0.0000	0.0503	0.0177	0.0130	5	-0.58	148.07	0
148	Total S (%)	0354	0.0650	0.0100	0.0503	0.0177	0.0130	5	0.83	148.99	0
148	Total S (%)	0572	0.0736	0.0471	0.0503	0.0177	0.0130	5	1.31	148.99	0
149	S - HNO3 soluble (%)	0524	0.0277	0.0004				1		149.04	0
151	Acid Soluble As (ppm)	0524	0.1707	0.0092	0.3292	0.1124	0.0754	6	-1.41	151.30	0
151	Acid Soluble As (ppm)	0415	0.2843	0.0253	0.3292	0.1124	0.0754	6	-0.40	151.30	0
151	Acid Soluble As (ppm)	0523	0.3150	0.1680	0.3292	0.1124	0.0754	6	-0.13	151.30	0
151	Acid Soluble As (ppm)	0501	0.3450	0.1100	0.3292	0.1124	0.0754	6	0.14	151.30	0
151	Acid Soluble As (ppm)	0548	0.4050	0.0100	0.3292	0.1124	0.0754	6	0.67	151.33	0
151	Acid Soluble As (ppm)	0563	0.4550	0.1300	0.3292	0.1124	0.0754	6	1.12	151.33	0
151	Acid Soluble As (ppm)	0572	0.4375	0.4170	0.3292	0.1124	0.0754	6	0.96	151.99	1
151	Acid Soluble As (ppm)	0255	0.0000	0.0000	0.3292	0.1124	0.0754	6		151.30	4
151	Acid Soluble As (ppm)	0368	< 0.3		0.3292	0.1124	0.0754	6		151.34	5
151	Acid Soluble As (ppm)	0481	< 0.5		0.3292	0.1124	0.0754	6		151.99	5
151	Acid Soluble As (ppm)	0220	< 1		0.3292	0.1124	0.0754	6		151.32	5
151	Acid Soluble As (ppm)	0136	< 1		0.3292	0.1124	0.0754	6		151.33	5
151	Acid Soluble As (ppm)	0220	< 1		0.3292	0.1124	0.0754	6		151.99	5
151	Acid Soluble As (ppm)	0405	< 3		0.3292	0.1124	0.0754	6		151.32	5
165	Acid Soluble B (%)	0524	0.0002	0.0000				1		165.99	0
165	Acid Soluble B (%)	0553	< 0.001					1		165.00	5
165	Acid Soluble B (%)	0354	< 0.01					1		165.30	5
165	Acid Soluble B (%)	0572	< 0.0108					1		165.99	5
171	Water Soluble B (%)	0572	< 0.0122					0		171.99	5
181	Acid Soluble Cd (ppm)	0548	0.0090	0.0001	0.0220	0.0194	0.0031	5	-0.67	181.33	0
181	Acid Soluble Cd (ppm)	0524	0.0106	0.0002	0.0220	0.0194	0.0031	5	-0.59	181.30	0
181	Acid Soluble Cd (ppm)	0415	0.0130	0.0044	0.0220	0.0194	0.0031	5	-0.46	181.30	0
181	Acid Soluble Cd (ppm)	0523	0.0220	0.0060	0.0220	0.0194	0.0031	5	0.00	181.30	0
181	Acid Soluble Cd (ppm)	0563	0.0555	0.0050	0.0220	0.0194	0.0031	5	1.73	181.33	0
181	Acid Soluble Cd (ppm)	0255	0.6290	0.2180	0.0220	0.0194	0.0031	5	31.31	181.30	1
181	Acid Soluble Cd (ppm)	0501	< 0.001		0.0220	0.0194	0.0031	5		181.30	5
181	Acid Soluble Cd (ppm)	0572	< 0.05		0.0220	0.0194	0.0031	5		181.99	5
181	Acid Soluble Cd (ppm)	0394	< 0.1		0.0220	0.0194	0.0031	5		181.30	5
181	Acid Soluble Cd (ppm)	0220	< 0.1		0.0220	0.0194	0.0031	5		181.32	5
181	Acid Soluble Cd (ppm)	0368	< 0.1		0.0220	0.0194	0.0031	5		181.34	5

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
181	Acid Soluble Cd (ppm)	0220	< 0.1		0.0220	0.0194	0.0031	5		181.99	5
181	Acid Soluble Cd (ppm)	0534	< 0.5		0.0220	0.0194	0.0031	5		181.00	5
181	Acid Soluble Cd (ppm)	0481	< 0.5		0.0220	0.0194	0.0031	5		181.99	5
181	Acid Soluble Cd (ppm)	0405	< 1		0.0220	0.0194	0.0031	5		181.32	5
181	Acid Soluble Cd (ppm)	0136	< 1		0.0220	0.0194	0.0031	5		181.33	5
190	Water Soluble Cl (%)	0553	44.60	0.2000	47.63	0.7932	0.2975	20	-3.83	190.00	0
190	Water Soluble Cl (%)	0513	46.48	0.0600	47.63	0.7932	0.2975	20	-1.46	190.00	0
190	Water Soluble Cl (%)	0029	46.87	0.4940	47.63	0.7932	0.2975	20	-0.97	190.00	0
190	Water Soluble Cl (%)	0029	46.97	0.4100	47.63	0.7932	0.2975	20	-0.84	190.99	0
190	Water Soluble Cl (%)	0389	47.28	0.4500	47.63	0.7932	0.2975	20	-0.45	190.00	0
190	Water Soluble Cl (%)	0136	47.29	1.060	47.63	0.7932	0.2975	20	-0.43	190.99	0
190	Water Soluble Cl (%)	0220	47.33	0.4400	47.63	0.7932	0.2975	20	-0.38	190.00	0
190	Water Soluble Cl (%)	0444	47.43	0.0000	47.63	0.7932	0.2975	20	-0.26	190.00	0
190	Water Soluble Cl (%)	0394	47.48	0.2400	47.63	0.7932	0.2975	20	-0.19	190.00	0
190	Water Soluble Cl (%)	0405	47.53	0.0300	47.63	0.7932	0.2975	20	-0.14	190.00	0
190	Water Soluble Cl (%)	0600	47.60	0.3000	47.63	0.7932	0.2975	20	-0.04	190.00	0
190	Water Soluble Cl (%)	0562	47.63	0.1500	47.63	0.7932	0.2975	20	-0.01	190.00	0
190	Water Soluble Cl (%)	0565	47.74	0.0200	47.63	0.7932	0.2975	20	0.13	190.00	0
190	Water Soluble Cl (%)	0564	47.75	0.0700	47.63	0.7932	0.2975	20	0.14	190.00	0
190	Water Soluble Cl (%)	0451	47.81	0.2200	47.63	0.7932	0.2975	20	0.22	190.99	0
190	Water Soluble Cl (%)	0481	48.32	0.5100	47.63	0.7932	0.2975	20	0.86	190.00	0
190	Water Soluble Cl (%)	0572	48.44	0.0606	47.63	0.7932	0.2975	20	1.01	190.99	0
190	Water Soluble Cl (%)	0561	48.68	0.3600	47.63	0.7932	0.2975	20	1.32	190.00	0
190	Water Soluble Cl (%)	0498	48.95	0.7000	47.63	0.7932	0.2975	20	1.66	190.00	0
190	Water Soluble Cl (%)	0397	49.21	0.1762	47.63	0.7932	0.2975	20	1.98	190.00	0
190	Water Soluble Cl (%)	0494	63.35	5.797	47.63	0.7932	0.2975	20	19.82	190.99	2
191	Acid Soluble Cr (ppm)	0389	0.4665	0.0350	0.8500	0.3879	0.1406	13	-0.99	191.30	0
191	Acid Soluble Cr (ppm)	0524	0.4748	0.0070	0.8500	0.3879	0.1406	13	-0.97	191.30	0
191	Acid Soluble Cr (ppm)	0394	0.5500	0.0200	0.8500	0.3879	0.1406	13	-0.77	191.30	0
191	Acid Soluble Cr (ppm)	0501	0.5800	0.0400	0.8500	0.3879	0.1406	13	-0.70	191.30	0
191	Acid Soluble Cr (ppm)	0368	0.6000	0.0000	0.8500	0.3879	0.1406	13	-0.64	191.34	0
191	Acid Soluble Cr (ppm)	0572	0.6100	0.0360	0.8500	0.3879	0.1406	13	-0.62	191.99	0
191	Acid Soluble Cr (ppm)	0415	0.6914	0.1159	0.8500	0.3879	0.1406	13	-0.41	191.30	0
191	Acid Soluble Cr (ppm)	0548	0.8650	0.0100	0.8500	0.3879	0.1406	13	0.04	191.33	0
191	Acid Soluble Cr (ppm)	0035	1.105	0.1300	0.8500	0.3879	0.1406	13	0.66	191.30	0
191	Acid Soluble Cr (ppm)	0563	1.193	0.4420	0.8500	0.3879	0.1406	13	0.88	191.33	0
191	Acid Soluble Cr (ppm)	0220	1.250	0.3000	0.8500	0.3879	0.1406	13	1.03	191.32	0
191	Acid Soluble Cr (ppm)	0523	1.314	0.1920	0.8500	0.3879	0.1406	13	1.20	191.30	0
191	Acid Soluble Cr (ppm)	0220	1.350	0.5000	0.8500	0.3879	0.1406	13	1.29	191.99	0
191	Acid Soluble Cr (ppm)	0405	< 1		0.8500	0.3879	0.1406	13		191.32	5
191	Acid Soluble Cr (ppm)	0136	< 2.5		0.8500	0.3879	0.1406	13		191.33	5
191	Acid Soluble Cr (ppm)	0481	< 20		0.8500	0.3879	0.1406	13		191.99	5
202	Acid Soluble Co (ppm)	0389	0.1000	0.0120	0.2583	0.1219	0.2105	9	-1.30	202.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
202	Acid Soluble Co (ppm)	0524	0.1934	0.0266	0.2583	0.1219	0.2105	9	-0.53	202.30	0
202	Acid Soluble Co (ppm)	0220	0.2000	0.0000	0.2583	0.1219	0.2105	9	-0.48	202.99	0
202	Acid Soluble Co (ppm)	0563	0.2020	0.0260	0.2583	0.1219	0.2105	9	-0.46	202.33	0
202	Acid Soluble Co (ppm)	0220	0.2500	0.1000	0.2583	0.1219	0.2105	9	-0.07	202.32	0
202	Acid Soluble Co (ppm)	0548	0.2635	0.0010	0.2583	0.1219	0.2105	9	0.04	202.33	0
202	Acid Soluble Co (ppm)	0523	0.2645	0.0290	0.2583	0.1219	0.2105	9	0.05	202.30	0
202	Acid Soluble Co (ppm)	0501	0.4100	0.0000	0.2583	0.1219	0.2105	9	1.24	202.34	0
202	Acid Soluble Co (ppm)	0368	1.150	1.700	0.2583	0.1219	0.2105	9	7.32	202.34	0
202	Acid Soluble Co (ppm)	0255	12.96	2.590	0.2583	0.1219	0.2105	9	104.18	202.99	1
202	Acid Soluble Co (ppm)	0572	< 0.66		0.2583	0.1219	0.2105	9		202.99	5
202	Acid Soluble Co (ppm)	0405	< 1		0.2583	0.1219	0.2105	9		202.32	5
202	Acid Soluble Co (ppm)	0136	< 2.5		0.2583	0.1219	0.2105	9		202.33	5
221	Acid Soluble Cu (%)	0524	0.0001	0.0000	0.0011	0.0016	0.0000	5	-0.63	221.99	0
221	Acid Soluble Cu (%)	0572	0.0002	0.0001	0.0011	0.0016	0.0000	5	-0.60	221.99	0
221	Acid Soluble Cu (%)	0368	0.0005	0.0001	0.0011	0.0016	0.0000	5	-0.42	221.99	0
221	Acid Soluble Cu (%)	0255	0.0010	0.0000	0.0011	0.0016	0.0000	5	-0.09	221.30	0
221	Acid Soluble Cu (%)	0523	0.0040	0.0000	0.0011	0.0016	0.0000	5	1.75	221.99	0
221	Acid Soluble Cu (%)	0106	0.0001	0.0002	0.0011	0.0016	0.0000	5		221.33	4
221	Acid Soluble Cu (%)	0394	< 0.0002		0.0011	0.0016	0.0000	5		221.32	5
221	Acid Soluble Cu (%)	0405	< 0.0002		0.0011	0.0016	0.0000	5		221.32	5
221	Acid Soluble Cu (%)	0136	< 0.0002		0.0011	0.0016	0.0000	5		221.33	5
221	Acid Soluble Cu (%)	0481	< 0.001		0.0011	0.0016	0.0000	5		221.99	5
221	Acid Soluble Cu (%)	0501	< 0.001		0.0011	0.0016	0.0000	5		221.99	5
221	Acid Soluble Cu (%)	0498	< 0.002		0.0011	0.0016	0.0000	5		221.00	5
221	Acid Soluble Cu (%)	0553	< 0.005		0.0011	0.0016	0.0000	5		221.00	5
221	Acid Soluble Cu (%)	0354	< 0.01		0.0011	0.0016	0.0000	5		221.30	5
241	Acid Soluble Fe (%)	0035	0.0080	0.0000	0.0864	0.0183	0.0044	6	-3.81	241.30	0
241	Acid Soluble Fe (%)	0572	0.0781	0.0034	0.0864	0.0183	0.0044	6	-0.40	241.99	0
241	Acid Soluble Fe (%)	0524	0.0872	0.0028	0.0864	0.0183	0.0044	6	0.04	241.99	0
241	Acid Soluble Fe (%)	0527	0.0940	0.0004	0.0864	0.0183	0.0044	6	0.37	241.33	0
241	Acid Soluble Fe (%)	0472	0.0950	0.0100	0.0864	0.0183	0.0044	6	0.42	241.33	0
241	Acid Soluble Fe (%)	0354	0.1050	0.0100	0.0864	0.0183	0.0044	6	0.91	241.30	0
241	Acid Soluble Fe (%)	0553	< 0.005		0.0864	0.0183	0.0044	6		241.00	5
251	Acid Soluble Pb (ppm)	0524	0.1488	0.0484	0.2600	0.0840	0.0442	9	-1.32	251.30	0
251	Acid Soluble Pb (ppm)	0501	0.2100	0.0800	0.2600	0.0840	0.0442	9	-0.60	251.30	0
251	Acid Soluble Pb (ppm)	0563	0.2100	0.0780	0.2600	0.0840	0.0442	9	-0.60	251.33	0
251	Acid Soluble Pb (ppm)	0389	0.2320	0.0220	0.2600	0.0840	0.0442	9	-0.33	251.30	0
251	Acid Soluble Pb (ppm)	0415	0.2326	0.0573	0.2600	0.0840	0.0442	9	-0.33	251.30	0
251	Acid Soluble Pb (ppm)	0572	0.2845	0.0970	0.2600	0.0840	0.0442	9	0.29	251.99	0
251	Acid Soluble Pb (ppm)	0523	0.2890	0.0140	0.2600	0.0840	0.0442	9	0.34	251.30	0
251	Acid Soluble Pb (ppm)	0548	0.3475	0.0010	0.2600	0.0840	0.0442	9	1.04	251.33	0
251	Acid Soluble Pb (ppm)	0220	0.6000	0.0000	0.2600	0.0840	0.0442	9	4.05	251.99	0
251	Acid Soluble Pb (ppm)	0220	0.4000	0.4000	0.2600	0.0840	0.0442	9	1.67	251.32	1

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			Value	Range	Rob Mean	Rob SD	Range				
251	Acid Soluble Pb (ppm)	0255	0.0000	0.0000	0.2600	0.0840	0.0442	9		251.30	4
251	Acid Soluble Pb (ppm)	0394	< 0.4		0.2600	0.0840	0.0442	9		251.30	5
251	Acid Soluble Pb (ppm)	0481	< 0.5		0.2600	0.0840	0.0442	9		251.99	5
251	Acid Soluble Pb (ppm)	0368	< 0.6		0.2600	0.0840	0.0442	9		251.34	5
251	Acid Soluble Pb (ppm)	0534	< 2		0.2600	0.0840	0.0442	9		251.00	5
251	Acid Soluble Pb (ppm)	0136	< 3		0.2600	0.0840	0.0442	9		251.33	5
251	Acid Soluble Pb (ppm)	0405	< 4		0.2600	0.0840	0.0442	9		251.32	5
261	Acid Soluble Mn (%)	0524	0.0008	0.0000	0.0011	0.0003	0.0003	4	-0.93	261.99	0
261	Acid Soluble Mn (%)	0035	0.0010	0.0000	0.0011	0.0003	0.0003	4	-0.25	261.30	0
261	Acid Soluble Mn (%)	0527	0.0011	0.0000	0.0011	0.0003	0.0003	4	0.08	261.35	0
261	Acid Soluble Mn (%)	0572	0.0014	0.0010	0.0011	0.0003	0.0003	4	1.10	261.99	0
261	Acid Soluble Mn (%)	0553	< 0.005		0.0011	0.0003	0.0003	4		261.00	5
261	Acid Soluble Mn (%)	0354	< 0.01		0.0011	0.0003	0.0003	4		261.30	5
281	Acid Soluble Hg (ppm)	0501	0.0010	0.0000	0.0072	0.0115	0.0007	5	-0.46	281.30	0
281	Acid Soluble Hg (ppm)	0524	0.0014	0.0000	0.0072	0.0115	0.0007	5	-0.43	281.99	0
281	Acid Soluble Hg (ppm)	0368	0.0017	0.0011	0.0072	0.0115	0.0007	5	-0.42	281.99	0
281	Acid Soluble Hg (ppm)	0035	0.0040	0.0020	0.0072	0.0115	0.0007	5	-0.24	281.99	0
281	Acid Soluble Hg (ppm)	0548	0.0277	0.0002	0.0072	0.0115	0.0007	5	1.55	281.30	0
281	Acid Soluble Hg (ppm)	0572	< 0.009		0.0072	0.0115	0.0007	5		281.99	5
281	Acid Soluble Hg (ppm)	0220	< 0.01		0.0072	0.0115	0.0007	5		281.99	5
281	Acid Soluble Hg (ppm)	0481	< 0.5		0.0072	0.0115	0.0007	5		281.00	5
281	Acid Soluble Hg (ppm)	0405	< 2		0.0072	0.0115	0.0007	5		281.30	5
289	Acid Soluble Mo (ppm)	0524	0.0344	0.0041	3.576	6.499	0.2724	7	-0.54	289.30	0
289	Acid Soluble Mo (ppm)	0548	0.0553	0.0002	3.576	6.499	0.2724	7	-0.54	289.33	0
289	Acid Soluble Mo (ppm)	0501	0.0830	0.0040	3.576	6.499	0.2724	7	-0.54	289.34	0
289	Acid Soluble Mo (ppm)	0255	0.2320	0.4040	3.576	6.499	0.2724	7	-0.51	289.30	0
289	Acid Soluble Mo (ppm)	0523	0.9030	0.0020	3.576	6.499	0.2724	7	-0.41	289.30	0
289	Acid Soluble Mo (ppm)	0368	10.40	0.8000	3.576	6.499	0.2724	7	1.05	289.34	0
289	Acid Soluble Mo (ppm)	0527	13.33	0.6923	3.576	6.499	0.2724	7	1.50	289.33	0
289	Acid Soluble Mo (ppm)	0106	0.0000	0.0000	3.576	6.499	0.2724	7		289.33	4
289	Acid Soluble Mo (ppm)	0220	< 0.3		3.576	6.499	0.2724	7		289.32	5
289	Acid Soluble Mo (ppm)	0220	< 0.3		3.576	6.499	0.2724	7		289.99	5
289	Acid Soluble Mo (ppm)	0405	< 1		3.576	6.499	0.2724	7		289.32	5
289	Acid Soluble Mo (ppm)	0136	< 2.5		3.576	6.499	0.2724	7		289.33	5
289	Acid Soluble Mo (ppm)	0572	< 2.5		3.576	6.499	0.2724	7		289.99	5
291	Acid Soluble Ni (ppm)	0524	0.3319	0.0165	0.6117	0.2576	0.1153	11	-1.09	291.30	0
291	Acid Soluble Ni (ppm)	0389	0.3510	0.0240	0.6117	0.2576	0.1153	11	-1.01	291.30	0
291	Acid Soluble Ni (ppm)	0548	0.3785	0.0010	0.6117	0.2576	0.1153	11	-0.91	291.33	0
291	Acid Soluble Ni (ppm)	0563	0.4325	0.0230	0.6117	0.2576	0.1153	11	-0.70	291.33	0
291	Acid Soluble Ni (ppm)	0415	0.5638	0.2127	0.6117	0.2576	0.1153	11	-0.19	291.30	0
291	Acid Soluble Ni (ppm)	0368	0.6000	0.2000	0.6117	0.2576	0.1153	11	-0.05	291.34	0
291	Acid Soluble Ni (ppm)	0523	0.6125	0.1510	0.6117	0.2576	0.1153	11	0.00	291.30	0
291	Acid Soluble Ni (ppm)	0220	0.8000	0.2000	0.6117	0.2576	0.1153	11	0.73	291.99	0

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			Value	Range	Rob Mean	Rob SD	Range				
291	Acid Soluble Ni (ppm)	0501	0.8100	0.0600	0.6117	0.2576	0.1153	11	0.77	291.34	0
291	Acid Soluble Ni (ppm)	0220	0.8500	0.3000	0.6117	0.2576	0.1153	11	0.93	291.32	0
291	Acid Soluble Ni (ppm)	0394	1.350	0.0800	0.6117	0.2576	0.1153	11	2.87	291.30	0
291	Acid Soluble Ni (ppm)	0255	16.71	1.630	0.6117	0.2576	0.1153	11	62.47	291.99	2
291	Acid Soluble Ni (ppm)	0405	< 1		0.6117	0.2576	0.1153	11		291.32	5
291	Acid Soluble Ni (ppm)	0572	< 1.67		0.6117	0.2576	0.1153	11		291.99	5
291	Acid Soluble Ni (ppm)	0136	< 2.5		0.6117	0.2576	0.1153	11		291.33	5
301	Acid Soluble Se (ppm)	0524	0.0326	0.0243	0.1366	0.1390	0.0371	6	-0.67	301.30	0
301	Acid Soluble Se (ppm)	0501	0.0360	0.0020	0.1366	0.1390	0.0371	6	-0.64	301.30	0
301	Acid Soluble Se (ppm)	0523	0.0560	0.0020	0.1366	0.1390	0.0371	6	-0.52	301.30	0
301	Acid Soluble Se (ppm)	0220	0.1500	0.1000	0.1366	0.1390	0.0371	6	0.09	301.99	0
301	Acid Soluble Se (ppm)	0220	0.2000	0.0000	0.1366	0.1390	0.0371	6	0.41	301.32	0
301	Acid Soluble Se (ppm)	0563	2.279	0.0940	0.1366	0.1390	0.0371	6	13.73	301.33	0
301	Acid Soluble Se (ppm)	0255	0.0000	0.0000	0.1366	0.1390	0.0371	6		301.99	4
301	Acid Soluble Se (ppm)	0481	< 0.5		0.1366	0.1390	0.0371	6		301.99	5
301	Acid Soluble Se (ppm)	0572	< 0.68		0.1366	0.1390	0.0371	6		301.99	5
301	Acid Soluble Se (ppm)	0368	< 1.1		0.1366	0.1390	0.0371	6		301.34	5
301	Acid Soluble Se (ppm)	0405	< 10		0.1366	0.1390	0.0371	6		301.32	5
311	Sodium (%)	0534	1.051	0.0440	1.225	0.0789	0.0306	21	-2.20	311.00	0
311	Sodium (%)	0035	1.120	0.0600	1.225	0.0789	0.0306	21	-1.33	311.33	0
311	Sodium (%)	0451	1.147	0.0230	1.225	0.0789	0.0306	21	-0.99	311.99	0
311	Sodium (%)	0553	1.155	0.0500	1.225	0.0789	0.0306	21	-0.88	311.00	0
311	Sodium (%)	0136	1.160	0.0000	1.225	0.0789	0.0306	21	-0.82	311.33	0
311	Sodium (%)	0255	1.168	0.0540	1.225	0.0789	0.0306	21	-0.72	311.99	0
311	Sodium (%)	0561	1.185	0.0700	1.225	0.0789	0.0306	21	-0.50	311.33	0
311	Sodium (%)	0572	1.206	0.0782	1.225	0.0789	0.0306	21	-0.24	311.99	0
311	Sodium (%)	0389	1.210	0.0000	1.225	0.0789	0.0306	21	-0.19	311.33	0
311	Sodium (%)	0394	1.213	0.0186	1.225	0.0789	0.0306	21	-0.14	311.33	0
311	Sodium (%)	0481	1.220	0.0200	1.225	0.0789	0.0306	21	-0.06	311.99	0
311	Sodium (%)	0444	1.235	0.0100	1.225	0.0789	0.0306	21	0.13	311.32	0
311	Sodium (%)	0368	1.248	0.0259	1.225	0.0789	0.0306	21	0.29	311.99	0
311	Sodium (%)	0498	1.250	0.1000	1.225	0.0789	0.0306	21	0.32	311.00	0
311	Sodium (%)	0037	1.255	0.0400	1.225	0.0789	0.0306	21	0.38	311.33	0
311	Sodium (%)	0220	1.260	0.0200	1.225	0.0789	0.0306	21	0.45	311.32	0
311	Sodium (%)	0405	1.262	0.0160	1.225	0.0789	0.0306	21	0.47	311.00	0
311	Sodium (%)	0354	1.290	0.0000	1.225	0.0789	0.0306	21	0.83	311.99	0
311	Sodium (%)	0527	1.353	0.0015	1.225	0.0789	0.0306	21	1.62	311.33	0
311	Sodium (%)	0548	2.515	0.0100	1.225	0.0789	0.0306	21	16.36	311.30	0
311	Sodium (%)	0397	2.658	0.0006	1.225	0.0789	0.0306	21	18.18	311.33	0
321	Acid Soluble Zn (%)	0035	0.0004	0.0002	0.0011	0.0008	0.0006	6	-0.86	321.30	0
321	Acid Soluble Zn (%)	0394	0.0006	0.0000	0.0011	0.0008	0.0006	6	-0.61	321.32	0
321	Acid Soluble Zn (%)	0368	0.0007	0.0002	0.0011	0.0008	0.0006	6	-0.48	321.99	0
321	Acid Soluble Zn (%)	0572	0.0010	0.0012	0.0011	0.0008	0.0006	6	-0.10	321.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
321	Acid Soluble Zn (%)	0523	0.0015	0.0010	0.0011	0.0008	0.0006	6	0.54	321.99	0
321	Acid Soluble Zn (%)	0255	0.0025	0.0010	0.0011	0.0008	0.0006	6	1.82	321.30	0
321	Acid Soluble Zn (%)	0106	0.0000	0.0000	0.0011	0.0008	0.0006	6		321.33	4
321	Acid Soluble Zn (%)	0524	0.0001	0.0001	0.0011	0.0008	0.0006	6		321.99	4
321	Acid Soluble Zn (%)	0405	< 0.0003		0.0011	0.0008	0.0006	6		321.32	5
321	Acid Soluble Zn (%)	0136	< 0.0003		0.0011	0.0008	0.0006	6		321.33	5
321	Acid Soluble Zn (%)	0481	< 0.001		0.0011	0.0008	0.0006	6		321.99	5
321	Acid Soluble Zn (%)	0501	< 0.001		0.0011	0.0008	0.0006	6		321.99	5
321	Acid Soluble Zn (%)	0553	< 0.002		0.0011	0.0008	0.0006	6		321.00	5
321	Acid Soluble Zn (%)	0498	< 0.01		0.0011	0.0008	0.0006	6		321.00	5
321	Acid Soluble Zn (%)	0354	< 0.01		0.0011	0.0008	0.0006	6		321.30	5
325	Water Soluble Zn (%)	0572	< 0.0004					0		325.99	5
431	Soluble Si in nonliquids (%)	0572	< 0.0074					0		431.99	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. 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.