

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 210111

Gypsum 70

Statistical Summary

Analytes: 31

Labs Reporting: 79

Issue Date : 02/28/2021

Analyte Code	Analyte Sample # 210111	# 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 (%)	1		0.0090									
010	Total N (%)	7	5	0.0458	0.0400	0.0421	0.4900	0.0365	0.0204	86.56%	0.17	0.0068	6.44%
020	Total P2O5 (%)	7	6	0.0732	0.0634	0.0744		0.0403	0.0206	54.11%		0.0023	5.91%
041	Direct Available P2O5 (%)	5	5	0.0797	0.0692	0.0797	0.6700	0.0692	0.0387	86.86%	0.24	0.0026	5.85%
050	Soluble K2O (%)	10	9	0.1181	0.0481	0.1146	0.4100	0.0436	0.0182	38.08%	0.25	0.0051	5.54%
060	Water (Free) (%)	1		1.019									
101	Acid Soluble Ca (17%)	69	67	17.01	2.918	17.29	1.0000	1.588	0.2425	9.19%	3.70	0.4123	2.60%
121	Acid Soluble Mg (0.3%)	62	61	0.3635	0.0776	0.3541	0.2177	0.0564	0.0090	15.93%	0.60	0.0243	4.68%
131	Water Soluble Mg (%)	3	3	0.5440	0.4269	0.5440		0.4269	0.3081	78.48%		0.0402	4.38%
143	Elemental S (%)	7	6	11.81	5.422	12.46		4.687	2.392	37.61%		0.2322	2.74%
145	Sulfate S, HCl soluble (%)	16	16	13.81	0.8026	13.94		0.4779	0.1493	3.43%		0.2175	2.69%
146	Total S in Liquid (14%)	1		14.00									
148	Total S (14%)	50	48	13.65	1.171	13.78	0.8891	0.9828	0.1773	7.13%	2.58	0.3148	2.70%
149	S - HNO3 soluble (%)	4	4	11.98	1.498	11.98		1.498	0.9360	12.50%		0.2582	2.75%
151	Acid Soluble As (ppm)	19	17	2.607	1.926	2.164		0.5342	0.1620	24.69%		0.1639	14.24%
165	Acid Soluble B (%)	10	7	0.0263	0.0682	0.0031	0.0035	0.0017	0.0008	56.43%	1.17	0.0007	9.55%
171	Water Soluble B (%)	1		0.1000									
181	Acid Soluble Cd (ppm)	23	17	0.6481	1.022	0.3162		0.1111	0.0337	35.15%		0.0473	19.02%
190	Water Soluble Cl (%)	1		0.1000									
191	Acid Soluble Cr (ppm)	22	22	50.48	16.88	50.36		18.90	5.036	37.52%		3.855	8.87%
202	Acid Soluble Co (ppm)	21	20	25.31	10.50	25.39	8.6163	11.40	3.187	44.91%	3.08	1.107	9.83%
221	Acid Soluble Cu (%)	25	19	0.0020	0.0027	0.0009	0.0051	0.0004	0.0001	49.12%	0.19	0.0002	11.58%
241	Acid Soluble Fe (%)	16	16	0.6468	0.1063	0.6423	0.0692	0.1106	0.0346	17.23%	3.72	0.0331	4.28%
251	Acid Soluble Pb (ppm)	25	19	3.361	2.510	2.970		1.429	0.4098	48.11%		0.3546	13.58%
261	Acid Soluble Mn (%)	15	12	0.0144	0.0220	0.0080	0.0058	0.0012	0.0004	14.85%	0.48	0.0014	8.27%
281	Acid Soluble Hg (ppm)	13	7	0.1456	0.2502	0.0223		0.0216	0.0102	97.08%		0.0065	28.35%
289	Acid Soluble Mo (ppm)	17	14	4.403	3.507	3.484	2.0452	1.573	0.5257	45.16%	1.79	0.5616	13.26%
291	Acid Soluble Ni (ppm)	25	24	26.02	9.094	24.62		6.660	1.699	27.05%		2.508	9.88%
301	Acid Soluble Se (ppm)	14	8	13.98	47.94	1.545		0.9899	0.4375	64.08%		0.3918	14.98%
311	Sodium (%)	6	6	0.0882	0.0243	0.0882	0.0138	0.0275	0.0140	31.17%	4.64	0.0074	5.76%
321	Acid Soluble Zn (%)	28	23	0.0090	0.0216	0.0024	0.0052	0.0009	0.0002	36.71%	0.38	0.0006	9.94%

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.

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 # 210111	
Analyte Code	

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Analyte Proficiency From All Labs

Sample # 210111

Gypsum 70

Lab Values

Analytes: 31

Labs Reporting: 79

Issue Date : 02/28/2021

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 N (%)	0553	0.0090	0.0000				1		001.99	0
010	Total N (%)	0568	0.0073	0.0042	0.0421	0.0365	0.0068	5	-0.83	010.12	0
010	Total N (%)	0472	0.0165	0.0270	0.0421	0.0365	0.0068	5	-0.61	010.60	0
010	Total N (%)	0354	0.0365	0.0010	0.0421	0.0365	0.0068	5	-0.13	010.60	0
010	Total N (%)	0524	0.0503	0.0018	0.0421	0.0365	0.0068	5	0.20	010.99	0
010	Total N (%)	0523	0.1000	0.0000	0.0421	0.0365	0.0068	5	1.39	010.60	0
010	Total N (%)	0527	< 0.01		0.0421	0.0365	0.0068	5		010.60	5
010	Total N (%)	0325	< 0.1		0.0421	0.0365	0.0068	5		010.60	5
020	Total P2O5 (%)	0524	0.0481	0.0060	0.0744	0.0403	0.0023	6	-0.58	020.50	0
020	Total P2O5 (%)	0389	0.0500	0.0000	0.0744	0.0403	0.0023	6	-0.54	020.50	0
020	Total P2O5 (%)	0472	0.0500	0.0000	0.0744	0.0403	0.0023	6	-0.54	020.50	0
020	Total P2O5 (%)	0527	0.0637	0.0025	0.0744	0.0403	0.0023	6	-0.24	020.50	0
020	Total P2O5 (%)	0523	0.1000	0.0000	0.0744	0.0403	0.0023	6	0.57	020.50	0
020	Total P2O5 (%)	0515	0.2007	0.0055	0.0744	0.0403	0.0023	6	2.79	020.99	0
020	Total P2O5 (%)	0552	0.0000	0.0000	0.0744	0.0403	0.0023	6		020.50	4
041	Direct Available P2O5 (%)	0553	0.0155	0.0010	0.0797	0.0692	0.0026	5	-0.93	041.20	0
041	Direct Available P2O5 (%)	0568	0.0350	0.0100	0.0797	0.0692	0.0026	5	-0.65	041.21	0
041	Direct Available P2O5 (%)	0354	0.0580	0.0020	0.0797	0.0692	0.0026	5	-0.31	041.21	0
041	Direct Available P2O5 (%)	0325	0.1000	0.0000	0.0797	0.0692	0.0026	5	0.29	041.50	0
041	Direct Available P2O5 (%)	0472	0.1900	0.0000	0.0797	0.0692	0.0026	5	1.59	041.21	0
050	Soluble K2O (%)	0354	0.0190	0.0000	0.1146	0.0436	0.0051	9	-2.02	050.52	0
050	Soluble K2O (%)	0553	0.0800	0.0020	0.1146	0.0436	0.0051	9	-0.73	050.99	0
050	Soluble K2O (%)	0325	0.1000	0.0000	0.1146	0.0436	0.0051	9	-0.31	050.99	0
050	Soluble K2O (%)	0523	0.1000	0.0000	0.1146	0.0436	0.0051	9	-0.31	050.99	0
050	Soluble K2O (%)	0524	0.1051	0.0088	0.1146	0.0436	0.0051	9	-0.20	050.99	0
050	Soluble K2O (%)	0568	0.1350	0.0100	0.1146	0.0436	0.0051	9	0.43	050.51	0
050	Soluble K2O (%)	0423	0.1425	0.0050	0.1146	0.0436	0.0051	9	0.59	050.52	0
050	Soluble K2O (%)	0563	0.1427	0.0159	0.1146	0.0436	0.0051	9	0.59	050.99	0
050	Soluble K2O (%)	0527	0.1767	0.0046	0.1146	0.0436	0.0051	9	1.31	050.99	0
050	Soluble K2O (%)	0552	0.1800	0.2200	0.1146	0.0436	0.0051	9	1.38	050.99	1
060	Water (Free) (%)	0510	1.019	0.0244				1		060.99	0
101	Acid Soluble Ca (17%)	0559	4.815†	0.0100	17.29	1.588	0.4123	67	-7.85	101.99	0
101	Acid Soluble Ca (17%)	0025	7.235†	0.3500	17.29	1.588	0.4123	67	-6.33	101.33	0
101	Acid Soluble Ca (17%)	0521	10.21†	0.0000	17.29	1.588	0.4123	67	-4.46	101.32	0
101	Acid Soluble Ca (17%)	0095	11.15†	0.2000	17.29	1.588	0.4123	67	-3.87	101.32	0
101	Acid Soluble Ca (17%)	0510	12.47†	0.0520	17.29	1.588	0.4123	67	-3.04	101.70	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 Ca (17%)	0472	12.84†	0.0700	17.29	1.588	0.4123	67	-2.80	101.30	0
101	Acid Soluble Ca (17%)	0423	14.45†	0.5000	17.29	1.588	0.4123	67	-1.79	101.32	0
101	Acid Soluble Ca (17%)	0568	15.00†	0.0000	17.29	1.588	0.4123	67	-1.44	101.30	0
101	Acid Soluble Ca (17%)	0451	15.41†	0.4800	17.29	1.588	0.4123	67	-1.18	101.30	0
101	Acid Soluble Ca (17%)	0552	15.53†	1.220	17.29	1.588	0.4123	67	-1.11	101.99	0
101	Acid Soluble Ca (17%)	0073	15.76†	0.5300	17.29	1.588	0.4123	67	-0.97	101.30	0
101	Acid Soluble Ca (17%)	0558	16.05†	0.1000	17.29	1.588	0.4123	67	-0.78	101.99	0
101	Acid Soluble Ca (17%)	0169	16.09†	0.0200	17.29	1.588	0.4123	67	-0.75	101.33	0
101	Acid Soluble Ca (17%)	0539	16.20†	0.4000	17.29	1.588	0.4123	67	-0.69	101.00	0
101	Acid Soluble Ca (17%)	0476	16.30	0.2543	17.29	1.588	0.4123	67	-0.62	101.70	0
101	Acid Soluble Ca (17%)	0040	16.33	0.2200	17.29	1.588	0.4123	67	-0.60	101.33	0
101	Acid Soluble Ca (17%)	0220	16.35	0.1400	17.29	1.588	0.4123	67	-0.59	101.70	0
101	Acid Soluble Ca (17%)	0535	16.40	0.2000	17.29	1.588	0.4123	67	-0.56	101.00	0
101	Acid Soluble Ca (17%)	0136	16.40	0.0000	17.29	1.588	0.4123	67	-0.56	101.33	0
101	Acid Soluble Ca (17%)	0563	16.40	0.5589	17.29	1.588	0.4123	67	-0.56	101.33	0
101	Acid Soluble Ca (17%)	0023	16.50	0.2000	17.29	1.588	0.4123	67	-0.50	101.31	0
101	Acid Soluble Ca (17%)	0042	16.51	2.280	17.29	1.588	0.4123	67	-0.49	101.99	0
101	Acid Soluble Ca (17%)	0037	16.61	0.5671	17.29	1.588	0.4123	67	-0.43	101.33	0
101	Acid Soluble Ca (17%)	0117	16.67	0.6003	17.29	1.588	0.4123	67	-0.39	101.33	0
101	Acid Soluble Ca (17%)	0231	16.73	0.2700	17.29	1.588	0.4123	67	-0.36	101.31	0
101	Acid Soluble Ca (17%)	0494	16.83	0.4189	17.29	1.588	0.4123	67	-0.29	101.33	0
101	Acid Soluble Ca (17%)	0292	16.85	0.0100	17.29	1.588	0.4123	67	-0.28	101.33	0
101	Acid Soluble Ca (17%)	0546	16.91	0.3841	17.29	1.588	0.4123	67	-0.24	101.03	0
101	Acid Soluble Ca (17%)	0540	16.93	0.1600	17.29	1.588	0.4123	67	-0.23	101.99	0
101	Acid Soluble Ca (17%)	0255	17.09	0.3050	17.29	1.588	0.4123	67	-0.13	101.30	0
101	Acid Soluble Ca (17%)	0043	17.15	1.560	17.29	1.588	0.4123	67	-0.09	101.33	0
101	Acid Soluble Ca (17%)	0220	17.23	0.3100	17.29	1.588	0.4123	67	-0.04	101.32	0
101	Acid Soluble Ca (17%)	0549	17.28	0.0900	17.29	1.588	0.4123	67	-0.01	101.70	0
101	Acid Soluble Ca (17%)	0234	17.29	0.2600	17.29	1.588	0.4123	67	0.00	101.30	0
101	Acid Soluble Ca (17%)	0532	17.40	0.1200	17.29	1.588	0.4123	67	0.07	101.70	0
101	Acid Soluble Ca (17%)	0550	17.53	0.9200	17.29	1.588	0.4123	67	0.15	101.00	0
101	Acid Soluble Ca (17%)	0034	17.59	0.5650	17.29	1.588	0.4123	67	0.19	101.33	0
101	Acid Soluble Ca (17%)	0534	17.65	0.2500	17.29	1.588	0.4123	67	0.22	101.03	0
101	Acid Soluble Ca (17%)	0537	17.68	0.3200	17.29	1.588	0.4123	67	0.25	101.70	0
101	Acid Soluble Ca (17%)	0529	17.71	0.1400	17.29	1.588	0.4123	67	0.27	101.70	0
101	Acid Soluble Ca (17%)	0506	17.71	0.0000	17.29	1.588	0.4123	67	0.27	101.99	0
101	Acid Soluble Ca (17%)	0444	17.75	1.030	17.29	1.588	0.4123	67	0.29	101.99	0
101	Acid Soluble Ca (17%)	0553	17.75	0.3000	17.29	1.588	0.4123	67	0.29	101.00	0
101	Acid Soluble Ca (17%)	0561	17.98	0.1500	17.29	1.588	0.4123	67	0.43	101.99	0
101	Acid Soluble Ca (17%)	0389	18.00	0.1900	17.29	1.588	0.4123	67	0.44	101.99	0
101	Acid Soluble Ca (17%)	0422	18.00	0.8000	17.29	1.588	0.4123	67	0.45	101.31	0
101	Acid Soluble Ca (17%)	0538	18.02	0.0700	17.29	1.588	0.4123	67	0.46	101.99	0
101	Acid Soluble Ca (17%)	0486	18.02	0.2600	17.29	1.588	0.4123	67	0.46	101.33	0
101	Acid Soluble Ca (17%)	0055	18.03	0.0000	17.29	1.588	0.4123	67	0.47	101.33	0
101	Acid Soluble Ca (17%)	0177	18.21	0.0378	17.29	1.588	0.4123	67	0.58	101.33	0
101	Acid Soluble Ca (17%)	0368	18.41‡	0.1340	17.29	1.588	0.4123	67	0.71	101.33	0
101	Acid Soluble Ca (17%)	0035	18.45‡	1.500	17.29	1.588	0.4123	67	0.73	101.30	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				
101	Acid Soluble Ca (17%)	0377	18.49‡	0.1900	17.29	1.588	0.4123	67	0.75	101.30	0
101	Acid Soluble Ca (17%)	0096	18.56‡	0.4400	17.29	1.588	0.4123	67	0.80	101.30	0
101	Acid Soluble Ca (17%)	0360	18.57‡	0.0700	17.29	1.588	0.4123	67	0.80	101.30	0
101	Acid Soluble Ca (17%)	0547	18.65‡	0.1000	17.29	1.588	0.4123	67	0.86	101.99	0
101	Acid Soluble Ca (17%)	0419	18.82‡	0.0300	17.29	1.588	0.4123	67	0.96	101.33	0
101	Acid Soluble Ca (17%)	0354	18.90‡	0.2000	17.29	1.588	0.4123	67	1.01	101.30	0
101	Acid Soluble Ca (17%)	0325	19.15‡	0.1000	17.29	1.588	0.4123	67	1.17	101.30	0
101	Acid Soluble Ca (17%)	0450	19.23‡	0.7100	17.29	1.588	0.4123	67	1.22	101.30	0
101	Acid Soluble Ca (17%)	0394	19.33‡	0.6920	17.29	1.588	0.4123	67	1.29	101.32	0
101	Acid Soluble Ca (17%)	0231	19.40‡	0.0000	17.29	1.588	0.4123	67	1.33	101.99	0
101	Acid Soluble Ca (17%)	0324	19.60‡	0.2000	17.29	1.588	0.4123	67	1.46	101.30	0
101	Acid Soluble Ca (17%)	0527	19.73‡	0.3268	17.29	1.588	0.4123	67	1.54	101.33	0
101	Acid Soluble Ca (17%)	0444	19.99‡	1.750	17.29	1.588	0.4123	67	1.70	101.30	0
101	Acid Soluble Ca (17%)	0027	21.63‡	1.110	17.29	1.588	0.4123	67	2.73	101.99	0
101	Acid Soluble Ca (17%)	0421	26.60‡	2.200	17.29	1.588	0.4123	67	5.86	101.33	0
101	Acid Soluble Ca (17%)	0390	18.00	4.200	17.29	1.588	0.4123	67	0.45	101.99	1
101	Acid Soluble Ca (17%)	0515	18.94‡	3.206	17.29	1.588	0.4123	67	1.04	101.33	1
121	Acid Soluble Mg (0.3%)	0537	0.2250	0.0500	0.3541	0.0564	0.0243	61	-2.29	121.00	0
121	Acid Soluble Mg (0.3%)	0377	0.2600	0.0200	0.3541	0.0564	0.0243	61	-1.67	121.30	0
121	Acid Soluble Mg (0.3%)	0023	0.2780	0.0000	0.3541	0.0564	0.0243	61	-1.35	121.33	0
121	Acid Soluble Mg (0.3%)	0535	0.2850	0.0100	0.3541	0.0564	0.0243	61	-1.22	121.00	0
121	Acid Soluble Mg (0.3%)	0539	0.2850	0.0100	0.3541	0.0564	0.0243	61	-1.22	121.00	0
121	Acid Soluble Mg (0.3%)	0532	0.2850	0.0500	0.3541	0.0564	0.0243	61	-1.22	121.70	0
121	Acid Soluble Mg (0.3%)	0540	0.2900	0.0800	0.3541	0.0564	0.0243	61	-1.14	121.99	0
121	Acid Soluble Mg (0.3%)	0524	0.2932	0.0164	0.3541	0.0564	0.0243	61	-1.08	121.99	0
121	Acid Soluble Mg (0.3%)	0040	0.2950	0.0100	0.3541	0.0564	0.0243	61	-1.05	121.00	0
121	Acid Soluble Mg (0.3%)	0472	0.3000	0.0000	0.3541	0.0564	0.0243	61	-0.96	121.30	0
121	Acid Soluble Mg (0.3%)	0292	0.3000	0.0000	0.3541	0.0564	0.0243	61	-0.96	121.32	0
121	Acid Soluble Mg (0.3%)	0444	0.3050	0.0500	0.3541	0.0564	0.0243	61	-0.87	121.30	0
121	Acid Soluble Mg (0.3%)	0521	0.3080	0.0000	0.3541	0.0564	0.0243	61	-0.82	121.33	0
121	Acid Soluble Mg (0.3%)	0309	0.3100	0.0200	0.3541	0.0564	0.0243	61	-0.78	121.00	0
121	Acid Soluble Mg (0.3%)	0136	0.3100	0.0200	0.3541	0.0564	0.0243	61	-0.78	121.33	0
121	Acid Soluble Mg (0.3%)	0095	0.3150	0.0100	0.3541	0.0564	0.0243	61	-0.69	121.32	0
121	Acid Soluble Mg (0.3%)	0035	0.3195	0.0430	0.3541	0.0564	0.0243	61	-0.61	121.30	0
121	Acid Soluble Mg (0.3%)	0231	0.3200	0.0000	0.3541	0.0564	0.0243	61	-0.60	121.30	0
121	Acid Soluble Mg (0.3%)	0394	0.3208	0.0057	0.3541	0.0564	0.0243	61	-0.59	121.32	0
121	Acid Soluble Mg (0.3%)	0561	0.3250	0.0100	0.3541	0.0564	0.0243	61	-0.52	121.33	0
121	Acid Soluble Mg (0.3%)	0553	0.3255	0.0110	0.3541	0.0564	0.0243	61	-0.51	121.00	0
121	Acid Soluble Mg (0.3%)	0234	0.3300	0.0400	0.3541	0.0564	0.0243	61	-0.43	121.30	0
121	Acid Soluble Mg (0.3%)	0405	0.3350	0.0300	0.3541	0.0564	0.0243	61	-0.34	121.99	0
121	Acid Soluble Mg (0.3%)	0043	0.3350	0.0100	0.3541	0.0564	0.0243	61	-0.34	121.33	0
121	Acid Soluble Mg (0.3%)	0368	0.3366	0.0535	0.3541	0.0564	0.0243	61	-0.31	121.33	0
121	Acid Soluble Mg (0.3%)	0419	0.3400	0.0200	0.3541	0.0564	0.0243	61	-0.25	121.33	0
121	Acid Soluble Mg (0.3%)	0042	0.3400	0.0000	0.3541	0.0564	0.0243	61	-0.25	121.99	0
121	Acid Soluble Mg (0.3%)	0506	0.3435	0.0150	0.3541	0.0564	0.0243	61	-0.19	121.99	0
121	Acid Soluble Mg (0.3%)	0558	0.3450	0.0100	0.3541	0.0564	0.0243	61	-0.16	121.99	0
121	Acid Soluble Mg (0.3%)	0550	0.3485	0.0030	0.3541	0.0564	0.0243	61	-0.10	121.00	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
121	Acid Soluble Mg (0.3%)	0027	0.3485	0.0010	0.3541	0.0564	0.0243	61	-0.10	121.99	0
121	Acid Soluble Mg (0.3%)	0523	0.3500	0.1000	0.3541	0.0564	0.0243	61	-0.07	121.99	0
121	Acid Soluble Mg (0.3%)	0354	0.3550	0.0100	0.3541	0.0564	0.0243	61	0.02	121.30	0
121	Acid Soluble Mg (0.3%)	0389	0.3600	0.0000	0.3541	0.0564	0.0243	61	0.11	121.99	0
121	Acid Soluble Mg (0.3%)	0515	0.3623	0.0367	0.3541	0.0564	0.0243	61	0.15	121.33	0
121	Acid Soluble Mg (0.3%)	0177	0.3632	0.0617	0.3541	0.0564	0.0243	61	0.16	121.33	0
121	Acid Soluble Mg (0.3%)	0568	0.3650	0.0100	0.3541	0.0564	0.0243	61	0.19	121.30	0
121	Acid Soluble Mg (0.3%)	0055	0.3650	0.0300	0.3541	0.0564	0.0243	61	0.19	121.33	0
121	Acid Soluble Mg (0.3%)	0486	0.3650	0.0100	0.3541	0.0564	0.0243	61	0.19	121.33	0
121	Acid Soluble Mg (0.3%)	0025	0.3725	0.0030	0.3541	0.0564	0.0243	61	0.33	121.33	0
121	Acid Soluble Mg (0.3%)	0534	0.3800	0.0000	0.3541	0.0564	0.0243	61	0.46	121.03	0
121	Acid Soluble Mg (0.3%)	0360	0.3815	0.0030	0.3541	0.0564	0.0243	61	0.49	121.30	0
121	Acid Soluble Mg (0.3%)	0423	0.3820	0.0060	0.3541	0.0564	0.0243	61	0.50	121.32	0
121	Acid Soluble Mg (0.3%)	0169	0.3855	0.0450	0.3541	0.0564	0.0243	61	0.56	121.33	0
121	Acid Soluble Mg (0.3%)	0494	0.3890	0.0220	0.3541	0.0564	0.0243	61	0.62	121.33	0
121	Acid Soluble Mg (0.3%)	0255	0.3935	0.0410	0.3541	0.0564	0.0243	61	0.70	121.30	0
121	Acid Soluble Mg (0.3%)	0546	0.3944	0.0040	0.3541	0.0564	0.0243	61	0.72	121.03	0
121	Acid Soluble Mg (0.3%)	0037	0.3982	0.0043	0.3541	0.0564	0.0243	61	0.78	121.33	0
121	Acid Soluble Mg (0.3%)	0220	0.4000	0.0200	0.3541	0.0564	0.0243	61	0.81	121.32	0
121	Acid Soluble Mg (0.3%)	0451	0.4022	0.0164	0.3541	0.0564	0.0243	61	0.85	121.30	0
121	Acid Soluble Mg (0.3%)	0563	0.4023	0.0055	0.3541	0.0564	0.0243	61	0.85	121.33	0
121	Acid Soluble Mg (0.3%)	0547	0.4050	0.0100	0.3541	0.0564	0.0243	61	0.90	121.99	0
121	Acid Soluble Mg (0.3%)	0117	0.4093	0.0089	0.3541	0.0564	0.0243	61	0.98	121.33	0
121	Acid Soluble Mg (0.3%)	0390	0.4355	0.0810	0.3541	0.0564	0.0243	61	1.44	121.30	0
121	Acid Soluble Mg (0.3%)	0527	0.4398	0.0106	0.3541	0.0564	0.0243	61	1.52	121.33	0
121	Acid Soluble Mg (0.3%)	0073	0.4420	0.0540	0.3541	0.0564	0.0243	61	1.56	121.30	0
121	Acid Soluble Mg (0.3%)	0516	0.4435	0.1090	0.3541	0.0564	0.0243	61	1.59	121.99	0
121	Acid Soluble Mg (0.3%)	0552	0.4550	0.1100	0.3541	0.0564	0.0243	61	1.79	121.99	0
121	Acid Soluble Mg (0.3%)	0324	0.4850	0.0300	0.3541	0.0564	0.0243	61	2.32	121.30	0
121	Acid Soluble Mg (0.3%)	0515	0.5511	0.0121	0.3541	0.0564	0.0243	61	3.49	121.99	0
121	Acid Soluble Mg (0.3%)	0421	0.7450‡	0.0300	0.3541	0.0564	0.0243	61	6.93	121.33	0
121	Acid Soluble Mg (0.3%)	0450	< 0.5		0.3541	0.0564	0.0243	61		121.99	5
131	Water Soluble Mg (%)	0549	0.2950	0.0500	0.5440	0.4269	0.0402	3	-0.58	131.70	0
131	Water Soluble Mg (%)	0538	0.3000	0.0200	0.5440	0.4269	0.0402	3	-0.57	131.00	0
131	Water Soluble Mg (%)	0510	1.037	0.0506	0.5440	0.4269	0.0402	3	1.15	131.70	0
143	Elemental S (%)	0405	0.4950	0.0700	12.46	4.687	0.2322	6	-2.27	143.00	0
143	Elemental S (%)	0472	9.445	0.0700	12.46	4.687	0.2322	6	-0.57	143.99	0
143	Elemental S (%)	0368	14.15	0.0323	12.46	4.687	0.2322	6	0.32	143.99	0
143	Elemental S (%)	0255	14.67	0.2910	12.46	4.687	0.2322	6	0.42	143.99	0
143	Elemental S (%)	0389	15.17	0.1300	12.46	4.687	0.2322	6	0.51	143.99	0
143	Elemental S (%)	0325	15.90	0.8000	12.46	4.687	0.2322	6	0.65	143.99	0
143	Elemental S (%)	0390	12.85	2.900	12.46	4.687	0.2322	6	0.07	143.99	1
145	Sulfate S, HCl soluble (%)	0444	11.16	0.4400	13.94	0.4779	0.2175	16	-5.81	145.00	0
145	Sulfate S, HCl soluble (%)	0444	13.17	0.2200	13.94	0.4779	0.2175	16	-1.61	145.99	0
145	Sulfate S, HCl soluble (%)	0419	13.35	0.3600	13.94	0.4779	0.2175	16	-1.23	145.99	0
145	Sulfate S, HCl soluble (%)	0564	13.58	0.0000	13.94	0.4779	0.2175	16	-0.75	145.00	0
145	Sulfate S, HCl soluble (%)	0562	13.60	0.3000	13.94	0.4779	0.2175	16	-0.71	145.99	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				
145	Sulfate S, HCl soluble (%)	0532	13.87	0.0700	13.94	0.4779	0.2175	16	-0.15	145.99	0
145	Sulfate S, HCl soluble (%)	0537	13.98	0.5400	13.94	0.4779	0.2175	16	0.09	145.99	0
145	Sulfate S, HCl soluble (%)	0538	13.99	0.2200	13.94	0.4779	0.2175	16	0.11	145.00	0
145	Sulfate S, HCl soluble (%)	0136	14.10	0.0000	13.94	0.4779	0.2175	16	0.34	145.99	0
145	Sulfate S, HCl soluble (%)	0549	14.11	0.1900	13.94	0.4779	0.2175	16	0.35	145.00	0
145	Sulfate S, HCl soluble (%)	0550	14.21	0.2700	13.94	0.4779	0.2175	16	0.56	145.00	0
145	Sulfate S, HCl soluble (%)	0561	14.24	0.0400	13.94	0.4779	0.2175	16	0.63	145.00	0
145	Sulfate S, HCl soluble (%)	0553	14.30	0.2000	13.94	0.4779	0.2175	16	0.76	145.99	0
145	Sulfate S, HCl soluble (%)	0405	14.36	0.1100	13.94	0.4779	0.2175	16	0.87	145.00	0
145	Sulfate S, HCl soluble (%)	0029	14.42	0.0600	13.94	0.4779	0.2175	16	1.01	145.00	0
145	Sulfate S, HCl soluble (%)	0027	14.47	0.4600	13.94	0.4779	0.2175	16	1.11	145.00	0
146	Total S in Liquid (14%)	0538	14.00±	0.2200				1		146.00	0
148	Total S (14%)	0516	9.780†	1.680	13.78	0.9828	0.3148	48	-4.07	148.99	0
148	Total S (14%)	0521	10.17†	0.0000	13.78	0.9828	0.3148	48	-3.68	148.07	0
148	Total S (14%)	0023	11.90†	0.0000	13.78	0.9828	0.3148	48	-1.92	148.07	0
148	Total S (14%)	0523	11.92†	0.3100	13.78	0.9828	0.3148	48	-1.90	148.99	0
148	Total S (14%)	0117	12.07†	0.3606	13.78	0.9828	0.3148	48	-1.74	148.07	0
148	Total S (14%)	0494	12.48†	0.7597	13.78	0.9828	0.3148	48	-1.33	148.07	0
148	Total S (14%)	0040	12.65†	0.3000	13.78	0.9828	0.3148	48	-1.15	148.07	0
148	Total S (14%)	0546	12.73†	0.2482	13.78	0.9828	0.3148	48	-1.07	148.07	0
148	Total S (14%)	0563	12.75†	0.3008	13.78	0.9828	0.3148	48	-1.05	148.07	0
148	Total S (14%)	0539	12.85†	0.1000	13.78	0.9828	0.3148	48	-0.95	148.99	0
148	Total S (14%)	0558	13.05	0.3000	13.78	0.9828	0.3148	48	-0.74	148.99	0
148	Total S (14%)	0535	13.15	0.1000	13.78	0.9828	0.3148	48	-0.64	148.99	0
148	Total S (14%)	0444	13.18	0.0300	13.78	0.9828	0.3148	48	-0.62	148.07	0
148	Total S (14%)	0037	13.25	0.1570	13.78	0.9828	0.3148	48	-0.54	148.07	0
148	Total S (14%)	0169	13.28	0.1100	13.78	0.9828	0.3148	48	-0.52	148.07	0
148	Total S (14%)	0177	13.30	0.0842	13.78	0.9828	0.3148	48	-0.49	148.07	0
148	Total S (14%)	0567	13.51	0.0200	13.78	0.9828	0.3148	48	-0.28	148.99	0
148	Total S (14%)	0559	13.53	0.0400	13.78	0.9828	0.3148	48	-0.26	148.99	0
148	Total S (14%)	0506	13.60	0.0000	13.78	0.9828	0.3148	48	-0.19	148.99	0
148	Total S (14%)	0564	13.67	0.0400	13.78	0.9828	0.3148	48	-0.11	148.01	0
148	Total S (14%)	0049	13.76	0.0200	13.78	0.9828	0.3148	48	-0.02	148.00	0
148	Total S (14%)	0549	13.77	0.0400	13.78	0.9828	0.3148	48	-0.01	148.01	0
148	Total S (14%)	0292	13.79	0.1100	13.78	0.9828	0.3148	48	0.00	148.07	0
148	Total S (14%)	0422	13.90	0.3400	13.78	0.9828	0.3148	48	0.12	148.99	0
148	Total S (14%)	0532	13.92	0.0800	13.78	0.9828	0.3148	48	0.14	148.99	0
148	Total S (14%)	0540	14.00	0.1000	13.78	0.9828	0.3148	48	0.22	148.99	0
148	Total S (14%)	0562	14.08	0.3500	13.78	0.9828	0.3148	48	0.30	148.99	0
148	Total S (14%)	0354	14.10	0.2000	13.78	0.9828	0.3148	48	0.32	148.99	0
148	Total S (14%)	0537	14.13	0.1200	13.78	0.9828	0.3148	48	0.35	148.01	0
148	Total S (14%)	0073	14.14	0.0300	13.78	0.9828	0.3148	48	0.36	148.01	0
148	Total S (14%)	0534	14.15	0.1000	13.78	0.9828	0.3148	48	0.37	148.01	0
148	Total S (14%)	0444	14.16	0.3000	13.78	0.9828	0.3148	48	0.38	148.01	0
148	Total S (14%)	0231	14.20	0.0000	13.78	0.9828	0.3148	48	0.43	148.01	0
148	Total S (14%)	0394	14.34	0.5350	13.78	0.9828	0.3148	48	0.56	148.07	0
148	Total S (14%)	0486	14.37	0.2000	13.78	0.9828	0.3148	48	0.60	148.07	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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148	Total S (14%)	0043	14.40	1.560	13.78	0.9828	0.3148	48	0.63	148.07	0
148	Total S (14%)	0421	14.40	2.000	13.78	0.9828	0.3148	48	0.63	148.07	0
148	Total S (14%)	0029	14.42	0.0600	13.78	0.9828	0.3148	48	0.65	148.01	0
148	Total S (14%)	0114	14.44	0.1400	13.78	0.9828	0.3148	48	0.67	148.00	0
148	Total S (14%)	0136	14.50	1.800	13.78	0.9828	0.3148	48	0.73	148.00	0
148	Total S (14%)	0476	14.71‡	0.1875	13.78	0.9828	0.3148	48	0.94	148.01	0
148	Total S (14%)	0157	14.80‡	0.0000	13.78	0.9828	0.3148	48	1.04	148.00	0
148	Total S (14%)	0405	14.85‡	0.1800	13.78	0.9828	0.3148	48	1.09	148.01	0
148	Total S (14%)	0561	14.96‡	0.0600	13.78	0.9828	0.3148	48	1.20	148.01	0
148	Total S (14%)	0055	15.00‡	0.2000	13.78	0.9828	0.3148	48	1.24	148.01	0
148	Total S (14%)	0324	15.25‡	0.1000	13.78	0.9828	0.3148	48	1.49	148.01	0
148	Total S (14%)	0451	15.45‡	1.090	13.78	0.9828	0.3148	48	1.69	148.00	0
148	Total S (14%)	0527	15.56‡	0.2680	13.78	0.9828	0.3148	48	1.81	148.07	0
148	Total S (14%)	0485	12.10†	3.246	13.78	0.9828	0.3148	48	-1.71	148.01	1
148	Total S (14%)	0515	14.15	3.895	13.78	0.9828	0.3148	48	0.37	148.07	1
149	S - HNO3 soluble (%)	0524	10.68	0.1628	11.98	1.498	0.2582	4	-0.87	149.04	0
149	S - HNO3 soluble (%)	0423	10.73	0.2500	11.98	1.498	0.2582	4	-0.84	149.04	0
149	S - HNO3 soluble (%)	0231	12.98	0.5200	11.98	1.498	0.2582	4	0.67	149.04	0
149	S - HNO3 soluble (%)	0547	13.55	0.1000	11.98	1.498	0.2582	4	1.05	149.99	0
151	Acid Soluble As (ppm)	0550	0.2350	0.1300	2.164	0.5342	0.1639	17	-3.61	151.99	0
151	Acid Soluble As (ppm)	0515	1.365	0.5830	2.164	0.5342	0.1639	17	-1.50	151.33	0
151	Acid Soluble As (ppm)	0529	1.840	0.0800	2.164	0.5342	0.1639	17	-0.61	151.32	0
151	Acid Soluble As (ppm)	0037	1.912	0.1830	2.164	0.5342	0.1639	17	-0.47	151.33	0
151	Acid Soluble As (ppm)	0506	1.935	0.4500	2.164	0.5342	0.1639	17	-0.43	151.99	0
151	Acid Soluble As (ppm)	0534	1.990	0.0600	2.164	0.5342	0.1639	17	-0.33	151.00	0
151	Acid Soluble As (ppm)	0255	1.999	0.1160	2.164	0.5342	0.1639	17	-0.31	151.30	0
151	Acid Soluble As (ppm)	0405	2.000	0.0000	2.164	0.5342	0.1639	17	-0.31	151.99	0
151	Acid Soluble As (ppm)	0527	2.113	0.1963	2.164	0.5342	0.1639	17	-0.09	151.33	0
151	Acid Soluble As (ppm)	0220	2.200	0.0000	2.164	0.5342	0.1639	17	0.07	151.99	0
151	Acid Soluble As (ppm)	0136	2.225	0.1100	2.164	0.5342	0.1639	17	0.11	151.33	0
151	Acid Soluble As (ppm)	0523	2.230	0.0270	2.164	0.5342	0.1639	17	0.12	151.30	0
151	Acid Soluble As (ppm)	0220	2.250	0.3000	2.164	0.5342	0.1639	17	0.16	151.32	0
151	Acid Soluble As (ppm)	0524	2.560	0.0330	2.164	0.5342	0.1639	17	0.74	151.30	0
151	Acid Soluble As (ppm)	0476	2.880	0.0600	2.164	0.5342	0.1639	17	1.34	151.30	0
151	Acid Soluble As (ppm)	0563	3.048	0.1781	2.164	0.5342	0.1639	17	1.66	151.33	0
151	Acid Soluble As (ppm)	0368	3.490	0.2800	2.164	0.5342	0.1639	17	2.48	151.34	0
151	Acid Soluble As (ppm)	0515	3.257	0.9890	2.164	0.5342	0.1639	17	2.04	151.34	1
151	Acid Soluble As (ppm)	0117	< 10		2.164	0.5342	0.1639	17		151.33	5
165	Acid Soluble B (%)	0515	0.0002	0.0000	0.0031	0.0017	0.0007	7	-1.50	165.99	0
165	Acid Soluble B (%)	0423	0.0025	0.0010	0.0031	0.0017	0.0007	7	-0.30	165.99	0
165	Acid Soluble B (%)	0389	0.0026	0.0005	0.0031	0.0017	0.0007	7	-0.28	165.30	0
165	Acid Soluble B (%)	0524	0.0029	0.0013	0.0031	0.0017	0.0007	7	-0.12	165.99	0
165	Acid Soluble B (%)	0563	0.0035	0.0010	0.0031	0.0017	0.0007	7	0.22	165.99	0
165	Acid Soluble B (%)	0553	0.0040	0.0000	0.0031	0.0017	0.0007	7	0.48	165.00	0
165	Acid Soluble B (%)	0494	0.0159	0.0011	0.0031	0.0017	0.0007	7	6.64	165.30	0
165	Acid Soluble B (%)	0552	0.2200	0.1600	0.0031	0.0017	0.0007	7	112.86	165.99	2
165	Acid Soluble B (%)	0527	< 0.001		0.0031	0.0017	0.0007	7		165.99	5

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165	Acid Soluble B (%)	0354	< 0.01		0.0031	0.0017	0.0007	7		165.30	5
171	Water Soluble B (%)	0534	< 0.1					0		171.10	5
181	Acid Soluble Cd (ppm)	0389	0.1800	0.0200	0.3162	0.1111	0.0473	17	-1.23	181.30	0
181	Acid Soluble Cd (ppm)	0529	0.2000	0.0200	0.3162	0.1111	0.0473	17	-1.05	181.32	0
181	Acid Soluble Cd (ppm)	0476	0.2050	0.0100	0.3162	0.1111	0.0473	17	-1.00	181.30	0
181	Acid Soluble Cd (ppm)	0220	0.2500	0.1000	0.3162	0.1111	0.0473	17	-0.60	181.32	0
181	Acid Soluble Cd (ppm)	0220	0.2500	0.1000	0.3162	0.1111	0.0473	17	-0.60	181.99	0
181	Acid Soluble Cd (ppm)	0523	0.2560	0.0133	0.3162	0.1111	0.0473	17	-0.54	181.30	0
181	Acid Soluble Cd (ppm)	0394	0.2645	0.0170	0.3162	0.1111	0.0473	17	-0.47	181.30	0
181	Acid Soluble Cd (ppm)	0368	0.2645	0.0790	0.3162	0.1111	0.0473	17	-0.47	181.34	0
181	Acid Soluble Cd (ppm)	0444	0.3050	0.0300	0.3162	0.1111	0.0473	17	-0.10	181.30	0
181	Acid Soluble Cd (ppm)	0255	0.3170	0.1880	0.3162	0.1111	0.0473	17	0.01	181.30	0
181	Acid Soluble Cd (ppm)	0527	0.3366	0.0426	0.3162	0.1111	0.0473	17	0.18	181.33	0
181	Acid Soluble Cd (ppm)	0405	0.3600	0.0000	0.3162	0.1111	0.0473	17	0.39	181.99	0
181	Acid Soluble Cd (ppm)	0563	0.3623	0.0156	0.3162	0.1111	0.0473	17	0.41	181.33	0
181	Acid Soluble Cd (ppm)	0524	0.3759	0.0598	0.3162	0.1111	0.0473	17	0.54	181.30	0
181	Acid Soluble Cd (ppm)	0419	0.8300	0.0400	0.3162	0.1111	0.0473	17	4.62	181.30	0
181	Acid Soluble Cd (ppm)	0506	1.001	0.0190	0.3162	0.1111	0.0473	17	6.16	181.99	0
181	Acid Soluble Cd (ppm)	0550	1.775	0.0500	0.3162	0.1111	0.0473	17	13.13	181.99	0
181	Acid Soluble Cd (ppm)	0515	0.3349	0.2563	0.3162	0.1111	0.0473	17	0.17	181.33	1
181	Acid Soluble Cd (ppm)	0515	0.0000	0.0000	0.3162	0.1111	0.0473	17		181.34	4
181	Acid Soluble Cd (ppm)	0534	< 0.5		0.3162	0.1111	0.0473	17		181.00	5
181	Acid Soluble Cd (ppm)	0494	< 0.54		0.3162	0.1111	0.0473	17		181.33	5
181	Acid Soluble Cd (ppm)	0136	< 1		0.3162	0.1111	0.0473	17		181.33	5
181	Acid Soluble Cd (ppm)	0117	< 5		0.3162	0.1111	0.0473	17		181.33	5
190	Water Soluble Cl (%)	0553	< 0.1					0		190.00	5
191	Acid Soluble Cr (ppm)	0136	22.95	5.900	50.36	18.90	3.855	22	-1.45	191.33	0
191	Acid Soluble Cr (ppm)	0550	23.64	0.8000	50.36	18.90	3.855	22	-1.41	191.99	0
191	Acid Soluble Cr (ppm)	0389	27.25	0.6000	50.36	18.90	3.855	22	-1.22	191.30	0
191	Acid Soluble Cr (ppm)	0476	29.72	2.440	50.36	18.90	3.855	22	-1.09	191.30	0
191	Acid Soluble Cr (ppm)	0035	29.90	11.00	50.36	18.90	3.855	22	-1.08	191.30	0
191	Acid Soluble Cr (ppm)	0529	39.93	0.2100	50.36	18.90	3.855	22	-0.55	191.32	0
191	Acid Soluble Cr (ppm)	0524	45.26	3.867	50.36	18.90	3.855	22	-0.27	191.30	0
191	Acid Soluble Cr (ppm)	0444	46.02	0.9300	50.36	18.90	3.855	22	-0.23	191.30	0
191	Acid Soluble Cr (ppm)	0394	47.60	0.0000	50.36	18.90	3.855	22	-0.15	191.30	0
191	Acid Soluble Cr (ppm)	0220	49.00	4.000	50.36	18.90	3.855	22	-0.07	191.99	0
191	Acid Soluble Cr (ppm)	0220	50.50	15.00	50.36	18.90	3.855	22	0.01	191.32	0
191	Acid Soluble Cr (ppm)	0368	51.12	6.310	50.36	18.90	3.855	22	0.04	191.34	0
191	Acid Soluble Cr (ppm)	0405	52.50	1.000	50.36	18.90	3.855	22	0.11	191.99	0
191	Acid Soluble Cr (ppm)	0450	53.50	3.000	50.36	18.90	3.855	22	0.17	191.30	0
191	Acid Soluble Cr (ppm)	0515	54.64	8.396	50.36	18.90	3.855	22	0.23	191.34	0
191	Acid Soluble Cr (ppm)	0419	55.77	1.230	50.36	18.90	3.855	22	0.29	191.30	0
191	Acid Soluble Cr (ppm)	0037	67.15	2.266	50.36	18.90	3.855	22	0.89	191.33	0
191	Acid Soluble Cr (ppm)	0523	67.57	1.140	50.36	18.90	3.855	22	0.91	191.30	0
191	Acid Soluble Cr (ppm)	0527	70.69	0.5860	50.36	18.90	3.855	22	1.08	191.33	0
191	Acid Soluble Cr (ppm)	0494	70.82	3.900	50.36	18.90	3.855	22	1.08	191.33	0
191	Acid Soluble Cr (ppm)	0515	73.79	5.429	50.36	18.90	3.855	22	1.24	191.33	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				
191	Acid Soluble Cr (ppm)	0563	81.23	6.806	50.36	18.90	3.855	22	1.63	191.33	0
202	Acid Soluble Co (ppm)	0550	1.825	0.0500	25.39	11.40	1.107	20	-2.07	202.30	0
202	Acid Soluble Co (ppm)	0136	8.400	1.800	25.39	11.40	1.107	20	-1.49	202.33	0
202	Acid Soluble Co (ppm)	0389	10.95	0.9700	25.39	11.40	1.107	20	-1.27	202.30	0
202	Acid Soluble Co (ppm)	0035	12.30	2.200	25.39	11.40	1.107	20	-1.15	202.30	0
202	Acid Soluble Co (ppm)	0476	15.32	1.840	25.39	11.40	1.107	20	-0.88	202.30	0
202	Acid Soluble Co (ppm)	0220	20.10	0.2000	25.39	11.40	1.107	20	-0.46	202.32	0
202	Acid Soluble Co (ppm)	0368	21.37	0.4300	25.39	11.40	1.107	20	-0.35	202.34	0
202	Acid Soluble Co (ppm)	0220	22.10	0.4000	25.39	11.40	1.107	20	-0.29	202.99	0
202	Acid Soluble Co (ppm)	0506	26.30	0.8000	25.39	11.40	1.107	20	0.08	202.99	0
202	Acid Soluble Co (ppm)	0405	26.75	1.500	25.39	11.40	1.107	20	0.12	202.99	0
202	Acid Soluble Co (ppm)	0423	26.88	0.6500	25.39	11.40	1.107	20	0.13	202.32	0
202	Acid Soluble Co (ppm)	0527	29.98	0.0383	25.39	11.40	1.107	20	0.40	202.33	0
202	Acid Soluble Co (ppm)	0524	31.68	0.0851	25.39	11.40	1.107	20	0.55	202.30	0
202	Acid Soluble Co (ppm)	0037	32.38	2.111	25.39	11.40	1.107	20	0.61	202.33	0
202	Acid Soluble Co (ppm)	0419	32.69	0.0000	25.39	11.40	1.107	20	0.64	202.30	0
202	Acid Soluble Co (ppm)	0515	33.73	4.830	25.39	11.40	1.107	20	0.73	202.34	0
202	Acid Soluble Co (ppm)	0523	35.42	0.7900	25.39	11.40	1.107	20	0.88	202.30	0
202	Acid Soluble Co (ppm)	0515	35.94	0.0674	25.39	11.40	1.107	20	0.93	202.33	0
202	Acid Soluble Co (ppm)	0494	36.98	0.4500	25.39	11.40	1.107	20	1.02	202.33	0
202	Acid Soluble Co (ppm)	0563	40.23	2.919	25.39	11.40	1.107	20	1.30	202.33	0
202	Acid Soluble Co (ppm)	0255	30.19	6.102	25.39	11.40	1.107	20	0.42	202.99	1
221	Acid Soluble Cu (%)	0419	0.0002	0.0001	0.0009	0.0004	0.0002	19	-1.68	221.33	0
221	Acid Soluble Cu (%)	0550	0.0003	0.0001	0.0009	0.0004	0.0002	19	-1.44	221.00	0
221	Acid Soluble Cu (%)	0389	0.0005	0.0001	0.0009	0.0004	0.0002	19	-0.97	221.99	0
221	Acid Soluble Cu (%)	0476	0.0005	0.0000	0.0009	0.0004	0.0002	19	-0.85	221.99	0
221	Acid Soluble Cu (%)	0368	0.0007	0.0001	0.0009	0.0004	0.0002	19	-0.49	221.33	0
221	Acid Soluble Cu (%)	0220	0.0007	0.0000	0.0009	0.0004	0.0002	19	-0.38	221.99	0
221	Acid Soluble Cu (%)	0220	0.0008	0.0001	0.0009	0.0004	0.0002	19	-0.26	221.32	0
221	Acid Soluble Cu (%)	0405	0.0008	0.0001	0.0009	0.0004	0.0002	19	-0.26	221.99	0
221	Acid Soluble Cu (%)	0524	0.0008	0.0001	0.0009	0.0004	0.0002	19	-0.26	221.99	0
221	Acid Soluble Cu (%)	0563	0.0008	0.0000	0.0009	0.0004	0.0002	19	-0.14	221.33	0
221	Acid Soluble Cu (%)	0035	0.0009	0.0005	0.0009	0.0004	0.0002	19	-0.02	221.30	0
221	Acid Soluble Cu (%)	0527	0.0009	0.0000	0.0009	0.0004	0.0002	19	0.10	221.33	0
221	Acid Soluble Cu (%)	0037	0.0010	0.0000	0.0009	0.0004	0.0002	19	0.34	221.33	0
221	Acid Soluble Cu (%)	0523	0.0010	0.0000	0.0009	0.0004	0.0002	19	0.34	221.99	0
221	Acid Soluble Cu (%)	0515	0.0012	0.0004	0.0009	0.0004	0.0002	19	0.81	221.33	0
221	Acid Soluble Cu (%)	0515	0.0012	0.0004	0.0009	0.0004	0.0002	19	0.81	221.99	0
221	Acid Soluble Cu (%)	0394	0.0014	0.0001	0.0009	0.0004	0.0002	19	1.17	221.32	0
221	Acid Soluble Cu (%)	0535	0.0025	0.0010	0.0009	0.0004	0.0002	19	3.89	221.00	0
221	Acid Soluble Cu (%)	0539	0.0026	0.0009	0.0009	0.0004	0.0002	19	4.01	221.00	0
221	Acid Soluble Cu (%)	0255	0.0000	0.0000	0.0009	0.0004	0.0002	19		221.30	4
221	Acid Soluble Cu (%)	0552	0.0050	0.0100	0.0009	0.0004	0.0002	19		221.30	4
221	Acid Soluble Cu (%)	0136	< 0.0025		0.0009	0.0004	0.0002	19		221.33	5
221	Acid Soluble Cu (%)	0553	< 0.005		0.0009	0.0004	0.0002	19		221.00	5
221	Acid Soluble Cu (%)	0534	< 0.01		0.0009	0.0004	0.0002	19		221.00	5
221	Acid Soluble Cu (%)	0354	< 0.01		0.0009	0.0004	0.0002	19		221.30	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				
241	Acid Soluble Fe (%)	0535	0.5050	0.0100	0.6423	0.1106	0.0331	16	-1.24	241.00	0
241	Acid Soluble Fe (%)	0539	0.5050	0.0100	0.6423	0.1106	0.0331	16	-1.24	241.00	0
241	Acid Soluble Fe (%)	0472	0.5200	0.0000	0.6423	0.1106	0.0331	16	-1.11	241.30	0
241	Acid Soluble Fe (%)	0553	0.5600	0.0500	0.6423	0.1106	0.0331	16	-0.74	241.00	0
241	Acid Soluble Fe (%)	0035	0.5720	0.0180	0.6423	0.1106	0.0331	16	-0.64	241.30	0
241	Acid Soluble Fe (%)	0515	0.5853	0.0793	0.6423	0.1106	0.0331	16	-0.52	241.99	0
241	Acid Soluble Fe (%)	0354	0.6250	0.0300	0.6423	0.1106	0.0331	16	-0.16	241.30	0
241	Acid Soluble Fe (%)	0552	0.6350	0.0700	0.6423	0.1106	0.0331	16	-0.07	241.30	0
241	Acid Soluble Fe (%)	0523	0.6415	0.0090	0.6423	0.1106	0.0331	16	-0.01	241.99	0
241	Acid Soluble Fe (%)	0389	0.6850	0.0100	0.6423	0.1106	0.0331	16	0.39	241.99	0
241	Acid Soluble Fe (%)	0524	0.6862	0.0386	0.6423	0.1106	0.0331	16	0.40	241.99	0
241	Acid Soluble Fe (%)	0423	0.7000	0.0080	0.6423	0.1106	0.0331	16	0.52	241.32	0
241	Acid Soluble Fe (%)	0494	0.7022	0.0597	0.6423	0.1106	0.0331	16	0.54	241.33	0
241	Acid Soluble Fe (%)	0515	0.7376	0.0958	0.6423	0.1106	0.0331	16	0.86	241.33	0
241	Acid Soluble Fe (%)	0527	0.8328	0.0309	0.6423	0.1106	0.0331	16	1.72	241.33	0
241	Acid Soluble Fe (%)	0563	0.8565	0.0109	0.6423	0.1106	0.0331	16	1.94	241.33	0
251	Acid Soluble Pb (ppm)	0476	1.040	0.0800	2.970	1.429	0.3546	19	-1.35	251.30	0
251	Acid Soluble Pb (ppm)	0037	1.548	0.0850	2.970	1.429	0.3546	19	-1.00	251.33	0
251	Acid Soluble Pb (ppm)	0529	1.650	0.0600	2.970	1.429	0.3546	19	-0.92	251.32	0
251	Acid Soluble Pb (ppm)	0389	1.785	0.1300	2.970	1.429	0.3546	19	-0.83	251.30	0
251	Acid Soluble Pb (ppm)	0515	1.787	1.433	2.970	1.429	0.3546	19	-0.83	251.33	0
251	Acid Soluble Pb (ppm)	0444	1.995	0.3500	2.970	1.429	0.3546	19	-0.68	251.30	0
251	Acid Soluble Pb (ppm)	0524	2.230	0.1334	2.970	1.429	0.3546	19	-0.52	251.30	0
251	Acid Soluble Pb (ppm)	0450	2.550	0.5000	2.970	1.429	0.3546	19	-0.29	251.30	0
251	Acid Soluble Pb (ppm)	0136	2.690	0.4600	2.970	1.429	0.3546	19	-0.20	251.33	0
251	Acid Soluble Pb (ppm)	0563	2.952	0.0102	2.970	1.429	0.3546	19	-0.01	251.33	0
251	Acid Soluble Pb (ppm)	0523	2.965	0.8860	2.970	1.429	0.3546	19	0.00	251.30	0
251	Acid Soluble Pb (ppm)	0405	3.100	0.8000	2.970	1.429	0.3546	19	0.09	251.99	0
251	Acid Soluble Pb (ppm)	0220	3.250	0.1000	2.970	1.429	0.3546	19	0.20	251.32	0
251	Acid Soluble Pb (ppm)	0527	3.378	0.0191	2.970	1.429	0.3546	19	0.29	251.33	0
251	Acid Soluble Pb (ppm)	0394	4.070	0.0000	2.970	1.429	0.3546	19	0.77	251.30	0
251	Acid Soluble Pb (ppm)	0220	4.100	0.2000	2.970	1.429	0.3546	19	0.79	251.99	0
251	Acid Soluble Pb (ppm)	0035	5.345	0.8500	2.970	1.429	0.3546	19	1.66	251.30	0
251	Acid Soluble Pb (ppm)	0494	7.750	0.5400	2.970	1.429	0.3546	19	3.35	251.33	0
251	Acid Soluble Pb (ppm)	0419	12.85	0.1000	2.970	1.429	0.3546	19	6.91	251.30	0
251	Acid Soluble Pb (ppm)	0255	3.838	3.142	2.970	1.429	0.3546	19	0.61	251.30	1
251	Acid Soluble Pb (ppm)	0515	3.958	3.474	2.970	1.429	0.3546	19	0.69	251.34	1
251	Acid Soluble Pb (ppm)	0368	< 0.7		2.970	1.429	0.3546	19		251.34	5
251	Acid Soluble Pb (ppm)	0550	< 1.5		2.970	1.429	0.3546	19		251.99	5
251	Acid Soluble Pb (ppm)	0534	< 2		2.970	1.429	0.3546	19		251.00	5
251	Acid Soluble Pb (ppm)	0117	< 5		2.970	1.429	0.3546	19		251.33	5
261	Acid Soluble Mn (%)	0494	0.0056	0.0001	0.0080	0.0012	0.0014	12	-2.06	261.35	0
261	Acid Soluble Mn (%)	0035	0.0066	0.0006	0.0080	0.0012	0.0014	12	-1.17	261.30	0
261	Acid Soluble Mn (%)	0515	0.0072	0.0016	0.0080	0.0012	0.0014	12	-0.67	261.99	0
261	Acid Soluble Mn (%)	0553	0.0075	0.0010	0.0080	0.0012	0.0014	12	-0.42	261.11	0
261	Acid Soluble Mn (%)	0524	0.0076	0.0006	0.0080	0.0012	0.0014	12	-0.33	261.99	0
261	Acid Soluble Mn (%)	0423	0.0080	0.0000	0.0080	0.0012	0.0014	12	0.00	261.34	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
261	Acid Soluble Mn (%)	0389	0.0081	0.0009	0.0080	0.0012	0.0014	12	0.05	261.99	0
261	Acid Soluble Mn (%)	0535	0.0085	0.0010	0.0080	0.0012	0.0014	12	0.43	261.12	0
261	Acid Soluble Mn (%)	0523	0.0085	0.0010	0.0080	0.0012	0.0014	12	0.43	261.99	0
261	Acid Soluble Mn (%)	0539	0.0086	0.0009	0.0080	0.0012	0.0014	12	0.47	261.12	0
261	Acid Soluble Mn (%)	0527	0.0095	0.0001	0.0080	0.0012	0.0014	12	1.23	261.35	0
261	Acid Soluble Mn (%)	0563	0.0905	0.0090	0.0080	0.0012	0.0014	12	69.49	261.35	0
261	Acid Soluble Mn (%)	0515	0.0000	0.0000	0.0080	0.0012	0.0014	12		261.35	4
261	Acid Soluble Mn (%)	0552	0.0300	0.0600	0.0080	0.0012	0.0014	12		261.32	4
261	Acid Soluble Mn (%)	0354	< 0.01		0.0080	0.0012	0.0014	12		261.30	5
281	Acid Soluble Hg (ppm)	0550	0.0022	0.0018	0.0223	0.0216	0.0065	7	-0.93	281.00	0
281	Acid Soluble Hg (ppm)	0368	0.0082	0.0005	0.0223	0.0216	0.0065	7	-0.65	281.99	0
281	Acid Soluble Hg (ppm)	0035	0.0110	0.0020	0.0223	0.0216	0.0065	7	-0.52	281.99	0
281	Acid Soluble Hg (ppm)	0524	0.0145	0.0021	0.0223	0.0216	0.0065	7	-0.36	281.99	0
281	Acid Soluble Hg (ppm)	0405	0.0250	0.0100	0.0223	0.0216	0.0065	7	0.13	281.99	0
281	Acid Soluble Hg (ppm)	0563	0.0405	0.0146	0.0223	0.0216	0.0065	7	0.84	281.30	0
281	Acid Soluble Hg (ppm)	0515	0.8306	0.0148	0.0223	0.0216	0.0065	7	37.35	281.30	0
281	Acid Soluble Hg (ppm)	0220	0.2050	0.0300	0.0223	0.0216	0.0065	7	8.44	281.99	1
281	Acid Soluble Hg (ppm)	0527	< 0.001		0.0223	0.0216	0.0065	7		281.30	5
281	Acid Soluble Hg (ppm)	0529	< 0.005		0.0223	0.0216	0.0065	7		281.30	5
281	Acid Soluble Hg (ppm)	0534	< 0.05		0.0223	0.0216	0.0065	7		281.00	5
281	Acid Soluble Hg (ppm)	0117	< 0.2		0.0223	0.0216	0.0065	7		281.00	5
281	Acid Soluble Hg (ppm)	0450	< 0.5		0.0223	0.0216	0.0065	7		281.30	5
289	Acid Soluble Mo (ppm)	0476	1.415	0.1900	3.484	1.573	0.5616	14	-1.31	289.30	0
289	Acid Soluble Mo (ppm)	0515	1.463	0.7320	3.484	1.573	0.5616	14	-1.28	289.34	0
289	Acid Soluble Mo (ppm)	0550	2.045	1.370	3.484	1.573	0.5616	14	-0.91	289.00	0
289	Acid Soluble Mo (ppm)	0423	2.730	0.0800	3.484	1.573	0.5616	14	-0.48	289.33	0
289	Acid Soluble Mo (ppm)	0220	2.950	0.5000	3.484	1.573	0.5616	14	-0.34	289.32	0
289	Acid Soluble Mo (ppm)	0515	3.107	2.283	3.484	1.573	0.5616	14	-0.24	289.33	0
289	Acid Soluble Mo (ppm)	0494	3.158	0.2567	3.484	1.573	0.5616	14	-0.21	289.33	0
289	Acid Soluble Mo (ppm)	0524	3.381	0.0943	3.484	1.573	0.5616	14	-0.07	289.30	0
289	Acid Soluble Mo (ppm)	0405	3.905	0.2100	3.484	1.573	0.5616	14	0.27	289.99	0
289	Acid Soluble Mo (ppm)	0037	4.088	0.1150	3.484	1.573	0.5616	14	0.38	289.33	0
289	Acid Soluble Mo (ppm)	0563	4.282	0.3656	3.484	1.573	0.5616	14	0.51	289.33	0
289	Acid Soluble Mo (ppm)	0527	4.562	0.0556	3.484	1.573	0.5616	14	0.69	289.33	0
289	Acid Soluble Mo (ppm)	0419	8.345	1.610	3.484	1.573	0.5616	14	3.09	289.30	0
289	Acid Soluble Mo (ppm)	0506	10.00	0.0000	3.484	1.573	0.5616	14	4.14	289.99	0
289	Acid Soluble Mo (ppm)	0255	14.32	10.36	3.484	1.573	0.5616	14	6.89	289.30	1
289	Acid Soluble Mo (ppm)	0368	< 0.1		3.484	1.573	0.5616	14		289.34	5
289	Acid Soluble Mo (ppm)	0136	< 5		3.484	1.573	0.5616	14		289.33	5
291	Acid Soluble Ni (ppm)	0515	14.52	24.33	24.62	6.660	2.508	24	-1.52	291.34	0
291	Acid Soluble Ni (ppm)	0476	14.77	0.7600	24.62	6.660	2.508	24	-1.48	291.30	0
291	Acid Soluble Ni (ppm)	0136	16.25	3.500	24.62	6.660	2.508	24	-1.26	291.33	0
291	Acid Soluble Ni (ppm)	0389	16.52	0.0400	24.62	6.660	2.508	24	-1.22	291.30	0
291	Acid Soluble Ni (ppm)	0550	17.41	0.4000	24.62	6.660	2.508	24	-1.08	291.99	0
291	Acid Soluble Ni (ppm)	0035	18.65	5.700	24.62	6.660	2.508	24	-0.90	291.30	0
291	Acid Soluble Ni (ppm)	0529	20.48	0.4000	24.62	6.660	2.508	24	-0.62	291.32	0
291	Acid Soluble Ni (ppm)	0444	20.70	0.2100	24.62	6.660	2.508	24	-0.59	291.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
291	Acid Soluble Ni (ppm)	0394	21.60	0.0000	24.62	6.660	2.508	24	-0.45	291.30	0
291	Acid Soluble Ni (ppm)	0524	23.55	0.3122	24.62	6.660	2.508	24	-0.16	291.30	0
291	Acid Soluble Ni (ppm)	0506	24.85	1.900	24.62	6.660	2.508	24	0.03	291.99	0
291	Acid Soluble Ni (ppm)	0220	26.50	3.000	24.62	6.660	2.508	24	0.28	291.99	0
291	Acid Soluble Ni (ppm)	0220	27.50	5.000	24.62	6.660	2.508	24	0.43	291.32	0
291	Acid Soluble Ni (ppm)	0368	27.86	3.510	24.62	6.660	2.508	24	0.49	291.34	0
291	Acid Soluble Ni (ppm)	0405	28.00	0.0000	24.62	6.660	2.508	24	0.51	291.99	0
291	Acid Soluble Ni (ppm)	0523	28.41	0.4500	24.62	6.660	2.508	24	0.57	291.30	0
291	Acid Soluble Ni (ppm)	0450	28.50	1.000	24.62	6.660	2.508	24	0.58	291.30	0
291	Acid Soluble Ni (ppm)	0515	28.99	0.0660	24.62	6.660	2.508	24	0.66	291.33	0
291	Acid Soluble Ni (ppm)	0037	29.89	0.6910	24.62	6.660	2.508	24	0.79	291.33	0
291	Acid Soluble Ni (ppm)	0117	30.03	2.623	24.62	6.660	2.508	24	0.81	291.33	0
291	Acid Soluble Ni (ppm)	0419	30.18	0.8700	24.62	6.660	2.508	24	0.83	291.30	0
291	Acid Soluble Ni (ppm)	0494	30.88	1.967	24.62	6.660	2.508	24	0.94	291.33	0
291	Acid Soluble Ni (ppm)	0563	31.72	3.460	24.62	6.660	2.508	24	1.07	291.33	0
291	Acid Soluble Ni (ppm)	0527	33.02	0.0007	24.62	6.660	2.508	24	1.26	291.33	0
291	Acid Soluble Ni (ppm)	0255	59.81	37.55	24.62	6.660	2.508	24	5.28	291.99	1
301	Acid Soluble Se (ppm)	0524	0.6395	0.0330	1.545	0.9899	0.3918	8	-0.91	301.30	0
301	Acid Soluble Se (ppm)	0523	0.8965	0.0392	1.545	0.9899	0.3918	8	-0.65	301.30	0
301	Acid Soluble Se (ppm)	0220	0.9000	0.0000	1.545	0.9899	0.3918	8	-0.65	301.99	0
301	Acid Soluble Se (ppm)	0220	0.9500	0.1000	1.545	0.9899	0.3918	8	-0.60	301.32	0
301	Acid Soluble Se (ppm)	0563	1.376	0.2311	1.545	0.9899	0.3918	8	-0.17	301.33	0
301	Acid Soluble Se (ppm)	0255	2.262	0.5060	1.545	0.9899	0.3918	8	0.72	301.99	0
301	Acid Soluble Se (ppm)	0515	2.305	1.705	1.545	0.9899	0.3918	8	0.77	301.34	0
301	Acid Soluble Se (ppm)	0476	4.750	0.5200	1.545	0.9899	0.3918	8	3.24	301.30	0
301	Acid Soluble Se (ppm)	0506	180.5	7.000	1.545	0.9899	0.3918	8	180.78	301.99	2
301	Acid Soluble Se (ppm)	0515	0.0000	0.0000	1.545	0.9899	0.3918	8		301.33	4
301	Acid Soluble Se (ppm)	0527	< 0.001		1.545	0.9899	0.3918	8		301.33	5
301	Acid Soluble Se (ppm)	0550	< 0.08		1.545	0.9899	0.3918	8		301.99	5
301	Acid Soluble Se (ppm)	0368	< 0.1		1.545	0.9899	0.3918	8		301.34	5
301	Acid Soluble Se (ppm)	0405	< 1		1.545	0.9899	0.3918	8		301.99	5
311	Sodium (%)	0423	0.0620	0.0020	0.0882	0.0275	0.0074	6	-0.85	311.33	0
311	Sodium (%)	0035	0.0660	0.0160	0.0882	0.0275	0.0074	6	-0.72	311.33	0
311	Sodium (%)	0527	0.0814	0.0001	0.0882	0.0275	0.0074	6	-0.22	311.33	0
311	Sodium (%)	0354	0.0950	0.0100	0.0882	0.0275	0.0074	6	0.22	311.99	0
311	Sodium (%)	0553	0.0970	0.0040	0.0882	0.0275	0.0074	6	0.28	311.00	0
311	Sodium (%)	0563	0.1281	0.0120	0.0882	0.0275	0.0074	6	1.29	311.33	0
321	Acid Soluble Zn (%)	0220	0.0013	0.0002	0.0024	0.0009	0.0006	23	-1.22	321.99	0
321	Acid Soluble Zn (%)	0220	0.0015	0.0001	0.0024	0.0009	0.0006	23	-1.05	321.32	0
321	Acid Soluble Zn (%)	0476	0.0016	0.0002	0.0024	0.0009	0.0006	23	-0.87	321.99	0
321	Acid Soluble Zn (%)	0136	0.0017	0.0001	0.0024	0.0009	0.0006	23	-0.82	321.33	0
321	Acid Soluble Zn (%)	0368	0.0017	0.0001	0.0024	0.0009	0.0006	23	-0.82	321.33	0
321	Acid Soluble Zn (%)	0035	0.0018	0.0005	0.0024	0.0009	0.0006	23	-0.70	321.30	0
321	Acid Soluble Zn (%)	0405	0.0018	0.0002	0.0024	0.0009	0.0006	23	-0.64	321.99	0
321	Acid Soluble Zn (%)	0515	0.0019	0.0002	0.0024	0.0009	0.0006	23	-0.53	321.33	0
321	Acid Soluble Zn (%)	0515	0.0020	0.0011	0.0024	0.0009	0.0006	23	-0.47	321.99	0
321	Acid Soluble Zn (%)	0423	0.0020	0.0000	0.0024	0.0009	0.0006	23	-0.41	321.32	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 Zn (%)	0394	0.0021	0.0001	0.0024	0.0009	0.0006	23	-0.35	321.32	0
321	Acid Soluble Zn (%)	0563	0.0022	0.0002	0.0024	0.0009	0.0006	23	-0.18	321.33	0
321	Acid Soluble Zn (%)	0524	0.0023	0.0003	0.0024	0.0009	0.0006	23	-0.12	321.99	0
321	Acid Soluble Zn (%)	0527	0.0023	0.0001	0.0024	0.0009	0.0006	23	-0.12	321.33	0
321	Acid Soluble Zn (%)	0550	0.0023	0.0002	0.0024	0.0009	0.0006	23	-0.06	321.00	0
321	Acid Soluble Zn (%)	0419	0.0025	0.0003	0.0024	0.0009	0.0006	23	0.11	321.33	0
321	Acid Soluble Zn (%)	0037	0.0030	0.0000	0.0024	0.0009	0.0006	23	0.75	321.33	0
321	Acid Soluble Zn (%)	0043	0.0030	0.0000	0.0024	0.0009	0.0006	23	0.75	321.33	0
321	Acid Soluble Zn (%)	0389	0.0030	0.0008	0.0024	0.0009	0.0006	23	0.75	321.99	0
321	Acid Soluble Zn (%)	0234	0.0044	0.0022	0.0024	0.0009	0.0006	23	2.37	321.30	0
321	Acid Soluble Zn (%)	0535	0.0055	0.0010	0.0024	0.0009	0.0006	23	3.64	321.00	0
321	Acid Soluble Zn (%)	0523	0.0055	0.0050	0.0024	0.0009	0.0006	23	3.64	321.99	0
321	Acid Soluble Zn (%)	0539	0.0056	0.0011	0.0024	0.0009	0.0006	23	3.70	321.00	0
321	Acid Soluble Zn (%)	0255	0.0940	0.1600	0.0024	0.0009	0.0006	23	106.02	321.30	1
321	Acid Soluble Zn (%)	0552	0.0750	0.1500	0.0024	0.0009	0.0006	23		321.30	4
321	Acid Soluble Zn (%)	0553	< 0.002		0.0024	0.0009	0.0006	23		321.00	5
321	Acid Soluble Zn (%)	0534	< 0.01		0.0024	0.0009	0.0006	23		321.00	5
321	Acid Soluble Zn (%)	0354	< 0.01		0.0024	0.0009	0.0006	23		321.30	5

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.