

Analyte Proficiency From All Labs

Magruder Fertilizer PT Program

Analytes: 33

Sample # 220111

Regular PT Scheme

Labs Reporting: 86

Soil Supplement

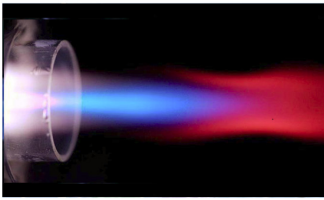
Statistical Summary

Issue Date : 02/28/2022

Analyte Code	Analyte Sample # 220111	# 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		0.0805									
005	Urea N (%)	1		0.0071									
010	Total N (%)	6	6	0.1781	0.1751	0.1605	0.4900	0.1560	0.0796	97.21%	0.74	0.0124	5.27%
020	Total P2O5 (%)	6	4	0.0411	0.0525	0.0592		0.0573	0.0358	96.73%		0.0044	6.12%
041	Direct Available P2O5 (%)	4	2	0.0511	0.0397	0.0488	0.6700	0.0194	0.0172	39.89%	0.07	0.0145	6.30%
050	Soluble K2O (%)	12	10	0.3082	0.2447	0.2788	0.4100	0.0338	0.0134	12.14%	0.19	0.0180	4.85%
060	Water (Free) (%)	1		1.292									
101	Acid Soluble Ca (24%)	78	75	24.35	2.934	24.45	1.0000	1.137	0.1641	4.65%	2.65	0.3952	2.02%
121	Acid Soluble Mg (5%)	77	75	6.477	1.070	6.491	0.5246	0.8671	0.1252	13.36%	3.85	0.1372	3.02%
131	Water Soluble Mg (%)	8	7	1.451	2.610	0.5846		1.094	0.5170	187.17%		0.0022	4.34%
143	Elemental S (%)	1		0.1670									
145	Sulfate S, HCl soluble (%)	1		0.0600									
148	Total S (%)	7	5	0.1784	0.0677	0.1715	0.2086	0.0456	0.0255	26.58%	0.51	0.0087	5.22%
149	S - HNO3 soluble (%)	2	2	0.1285	0.0297								
151	Acid Soluble As (ppm)	16	7	2.420	4.143	0.6253		0.3119	0.1474	49.89%		0.0250	17.17%
165	Acid Soluble B (%)	42	37	4.677	30.19	0.0136	0.0050	0.0079	0.0016	58.13%	3.65	0.0020	7.64%
171	Water Soluble B (%)	3	3	0.0203	0.0055	0.0203		0.0055	0.0040	27.09%		0.0053	7.19%
181	Acid Soluble Cd (ppm)	17	8	1.501	3.683	0.3005		0.2614	0.1155	86.99%		0.0871	19.17%
190	Water Soluble Cl (%)	1		0.2950									
191	Acid Soluble Cr (ppm)	23	22	2,036	502.5	1,987		418.1	111.4	21.04%		96.09	5.10%
202	Acid Soluble Co (ppm)	25	24	55.60	28.72	53.20	16.9594	30.21	7.707	56.78%	4.15	3.308	8.80%
221	Acid Soluble Cu (%)	55	49	10.47	69.94	0.0067	0.0057	0.0028	0.0005	42.49%	1.17	0.0022	8.50%
241	Acid Soluble Fe (%)	67	65	526.9	4,282	3.907	0.3957	0.4666	0.0723	11.94%	2.75	0.1066	3.26%
251	Acid Soluble Pb (ppm)	19	13	9.014	15.67	4.344		5.306	1.839	122.15%		0.7260	12.82%
261	Acid Soluble Mn (%)	63	62	105.0	827.8	0.7484	0.0798	0.0876	0.0139	11.70%	2.55	0.0261	4.18%
281	Acid Soluble Hg (ppm)	15	6	0.6470	1.990	0.0750		0.1052	0.0537	140.29%		0.0105	22.00%
289	Acid Soluble Mo (30ppm)	32	31	77.11	27.50	77.04	24.1108	25.47	5.718	33.06%	2.46	2.405	8.32%
291	Acid Soluble Ni (ppm)	27	27	303.7	99.28	308.8		101.1	24.32	32.75%		11.40	6.75%
301	Acid Soluble Se (ppm)	15	11	5.027	4.040	4.702		3.184	1.200	67.71%		0.5599	12.67%

Analyte Code	Analyte Sample # 220111	# 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
311	Sodium (%)	6	6	0.7599	0.2566	0.8434	0.0893	0.0681	0.0347	8.07%	1.78	0.0133	4.10%
321	Acid Soluble Zn (%)	50	43	0.7559	5.255	0.0050	0.0055	0.0033	0.0006	67.00%	1.42	0.0010	8.88%
325	Water Soluble Zn (%)	2	2	0.0017	0.0005								
431	Soluble Si in nonliquids (1.9%)	7	6	2,694	7,118	1.937		0.7849	0.4005	40.51%		0.1768	3.62%

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.



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Magruder Fertilizer PT Program

Analytes: 33

Sample # 220111

Regular PT Scheme

Labs Reporting: 86

Soil Supplement

Lab Values

Issue Date : 02/28/2022

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 (%)	0524	0.0805	0.1549				1		001.99	0
005	Urea N (%)	0524	0.0071	0.0102				1		005.99	0
010	Total N (%)	0472	0.0320	0.0100	0.1605	0.1560	0.0124	6	-0.73	010.60	0
010	Total N (%)	0568	0.0490	0.0011	0.1605	0.1560	0.0124	6	-0.64	010.12	0
010	Total N (%)	0524	0.0930	0.0183	0.1605	0.1560	0.0124	6	-0.39	010.99	0
010	Total N (%)	0354	0.1545	0.0050	0.1605	0.1560	0.0124	6	-0.03	010.60	0
010	Total N (%)	0325	0.2400	0.0400	0.1605	0.1560	0.0124	6	0.45	010.60	0
010	Total N (%)	0422	0.5000	0.0000	0.1605	0.1560	0.0124	6	1.94	010.60	0
020	Total P2O5 (%)	0422	0.0268	0.0011	0.0592	0.0573	0.0044	4	-0.48	020.50	0
020	Total P2O5 (%)	0515	0.0323	0.0024	0.0592	0.0573	0.0044	4	-0.40	020.99	0
020	Total P2O5 (%)	0524	0.0328	0.0039	0.0592	0.0573	0.0044	4	-0.39	020.50	0
020	Total P2O5 (%)	0472	0.1450	0.0100	0.0592	0.0573	0.0044	4	1.27	020.50	0
020	Total P2O5 (%)	0552	0.0000	0.0000	0.0592	0.0573	0.0044	4		020.50	4
020	Total P2O5 (%)	0527	< 0.01		0.0592	0.0573	0.0044	4		020.50	5
041	Direct Available P2O5 (%)	0568	0.0350	0.0100				2		041.21	0
041	Direct Available P2O5 (%)	0354	0.0625	0.0190				2		041.21	0
041	Direct Available P2O5 (%)	0553	< 0.007					2		041.20	5
041	Direct Available P2O5 (%)	0325	< 0.1					2		041.50	5
050	Soluble K2O (%)	0524	0.2358	0.0078	0.2788	0.0338	0.0180	10	-1.27	050.99	0
050	Soluble K2O (%)	0515	0.2360	0.0275	0.2788	0.0338	0.0180	10	-1.27	050.99	0
050	Soluble K2O (%)	0354	0.2600	0.0020	0.2788	0.0338	0.0180	10	-0.56	050.52	0
050	Soluble K2O (%)	0563	0.2718	0.0062	0.2788	0.0338	0.0180	10	-0.21	050.99	0
050	Soluble K2O (%)	0423	0.2745	0.0050	0.2788	0.0338	0.0180	10	-0.13	050.52	0
050	Soluble K2O (%)	0422	0.2827	0.0264	0.2788	0.0338	0.0180	10	0.11	050.50	0
050	Soluble K2O (%)	0472	0.2950	0.0300	0.2788	0.0338	0.0180	10	0.48	050.32	0
050	Soluble K2O (%)	0527	0.2980	0.0053	0.2788	0.0338	0.0180	10	0.56	050.99	0
050	Soluble K2O (%)	0568	0.3050	0.0300	0.2788	0.0338	0.0180	10	0.77	050.51	0
050	Soluble K2O (%)	0553	1.040	0.0400	0.2788	0.0338	0.0180	10	22.49	050.99	0
050	Soluble K2O (%)	0325	0.2000	0.2000	0.2788	0.0338	0.0180	10	-2.33	050.99	1
050	Soluble K2O (%)	0552	0.0000	0.0000	0.2788	0.0338	0.0180	10		050.99	4
060	Water (Free) (%)	0510	1.292	0.0100				1		060.99	0
101	Acid Soluble Ca (24%)	0476	19.54†	0.2079	24.45	1.137	0.3952	75	-4.32	101.99	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				
101	Acid Soluble Ca (24%)	0157	21.00†	0.6000	24.45	1.137	0.3952	75	-3.03	101.00	0
101	Acid Soluble Ca (24%)	0481	21.05†	0.7700	24.45	1.137	0.3952	75	-2.99	101.99	0
101	Acid Soluble Ca (24%)	0472	21.52†	0.1700	24.45	1.137	0.3952	75	-2.58	101.33	0
101	Acid Soluble Ca (24%)	0255	21.79†	1.180	24.45	1.137	0.3952	75	-2.34	101.30	0
101	Acid Soluble Ca (24%)	0102	21.97†	0.1200	24.45	1.137	0.3952	75	-2.18	101.30	0
101	Acid Soluble Ca (24%)	0510	22.29†	0.0917	24.45	1.137	0.3952	75	-1.89	101.70	0
101	Acid Soluble Ca (24%)	0552	22.85†	0.3100	24.45	1.137	0.3952	75	-1.41	101.99	0
101	Acid Soluble Ca (24%)	0231	22.87†	0.1100	24.45	1.137	0.3952	75	-1.39	101.30	0
101	Acid Soluble Ca (24%)	0521	22.89†	0.0000	24.45	1.137	0.3952	75	-1.37	101.32	0
101	Acid Soluble Ca (24%)	0580	23.11†	0.0800	24.45	1.137	0.3952	75	-1.17	101.00	0
101	Acid Soluble Ca (24%)	0568	23.15†	0.7000	24.45	1.137	0.3952	75	-1.14	101.30	0
101	Acid Soluble Ca (24%)	0485	23.29†	1.760	24.45	1.137	0.3952	75	-1.02	101.00	0
101	Acid Soluble Ca (24%)	0025	23.65	0.5000	24.45	1.137	0.3952	75	-0.70	101.33	0
101	Acid Soluble Ca (24%)	0389	23.70	0.2200	24.45	1.137	0.3952	75	-0.66	101.99	0
101	Acid Soluble Ca (24%)	0234	23.75	1.170	24.45	1.137	0.3952	75	-0.62	101.30	0
101	Acid Soluble Ca (24%)	0534	23.85	0.3000	24.45	1.137	0.3952	75	-0.52	101.00	0
101	Acid Soluble Ca (24%)	0542	23.86	0.9500	24.45	1.137	0.3952	75	-0.52	101.33	0
101	Acid Soluble Ca (24%)	0136	23.95	0.1000	24.45	1.137	0.3952	75	-0.44	101.33	0
101	Acid Soluble Ca (24%)	0451	23.99	0.5800	24.45	1.137	0.3952	75	-0.40	101.30	0
101	Acid Soluble Ca (24%)	0498	24.00	0.8000	24.45	1.137	0.3952	75	-0.39	101.99	0
101	Acid Soluble Ca (24%)	0513	24.02	0.0700	24.45	1.137	0.3952	75	-0.38	101.00	0
101	Acid Soluble Ca (24%)	0377	24.04	0.8600	24.45	1.137	0.3952	75	-0.36	101.30	0
101	Acid Soluble Ca (24%)	0043	24.08	0.4200	24.45	1.137	0.3952	75	-0.32	101.33	0
101	Acid Soluble Ca (24%)	0397	24.09	0.0110	24.45	1.137	0.3952	75	-0.31	101.30	0
101	Acid Soluble Ca (24%)	0544	24.12	0.0300	24.45	1.137	0.3952	75	-0.29	101.70	0
101	Acid Soluble Ca (24%)	0560	24.14	0.0300	24.45	1.137	0.3952	75	-0.27	101.99	0
101	Acid Soluble Ca (24%)	0548	24.16	0.4800	24.45	1.137	0.3952	75	-0.25	101.70	0
101	Acid Soluble Ca (24%)	0035	24.20	1.200	24.45	1.137	0.3952	75	-0.22	101.30	0
101	Acid Soluble Ca (24%)	0157	24.20	1.200	24.45	1.137	0.3952	75	-0.22	101.30	0
101	Acid Soluble Ca (24%)	0028	24.25	0.3000	24.45	1.137	0.3952	75	-0.17	101.32	0
101	Acid Soluble Ca (24%)	0325	24.26	1.570	24.45	1.137	0.3952	75	-0.17	101.30	0
101	Acid Soluble Ca (24%)	0260	24.30	0.4000	24.45	1.137	0.3952	75	-0.13	101.33	0
101	Acid Soluble Ca (24%)	0169	24.31	0.2000	24.45	1.137	0.3952	75	-0.12	101.33	0
101	Acid Soluble Ca (24%)	0532	24.32	0.1900	24.45	1.137	0.3952	75	-0.11	101.70	0
101	Acid Soluble Ca (24%)	0551	24.41	0.0200	24.45	1.137	0.3952	75	-0.03	101.99	0
101	Acid Soluble Ca (24%)	0559	24.41	0.0200	24.45	1.137	0.3952	75	-0.03	101.99	0
101	Acid Soluble Ca (24%)	0177	24.44	0.4616	24.45	1.137	0.3952	75	0.00	101.33	0
101	Acid Soluble Ca (24%)	0117	24.44	0.5051	24.45	1.137	0.3952	75	0.00	101.33	0
101	Acid Soluble Ca (24%)	0037	24.49	0.0070	24.45	1.137	0.3952	75	0.04	101.33	0
101	Acid Soluble Ca (24%)	0029	24.54	0.2800	24.45	1.137	0.3952	75	0.08	101.00	0
101	Acid Soluble Ca (24%)	0200	24.55	0.0300	24.45	1.137	0.3952	75	0.09	101.70	0
101	Acid Soluble Ca (24%)	0292	24.57	0.1300	24.45	1.137	0.3952	75	0.11	101.33	0
101	Acid Soluble Ca (24%)	0553	24.60	1.000	24.45	1.137	0.3952	75	0.14	101.00	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
101	Acid Soluble Ca (24%)	0529	24.60	0.4000	24.45	1.137	0.3952	75	0.14	101.70	0
101	Acid Soluble Ca (24%)	0533	24.70	0.4000	24.45	1.137	0.3952	75	0.22	101.00	0
101	Acid Soluble Ca (24%)	0561	24.73	0.2900	24.45	1.137	0.3952	75	0.25	101.99	0
101	Acid Soluble Ca (24%)	0522	24.73	0.2850	24.45	1.137	0.3952	75	0.25	101.70	0
101	Acid Soluble Ca (24%)	0360	24.75	0.2300	24.45	1.137	0.3952	75	0.26	101.30	0
101	Acid Soluble Ca (24%)	0535	24.75	0.5000	24.45	1.137	0.3952	75	0.27	101.00	0
101	Acid Soluble Ca (24%)	0423	24.76	0.1700	24.45	1.137	0.3952	75	0.27	101.32	0
101	Acid Soluble Ca (24%)	0527	24.82	0.1260	24.45	1.137	0.3952	75	0.33	101.33	0
101	Acid Soluble Ca (24%)	0354	24.85	0.3000	24.45	1.137	0.3952	75	0.36	101.30	0
101	Acid Soluble Ca (24%)	0040	24.85	0.0200	24.45	1.137	0.3952	75	0.36	101.33	0
101	Acid Soluble Ca (24%)	0547	24.90	0.2000	24.45	1.137	0.3952	75	0.40	101.99	0
101	Acid Soluble Ca (24%)	0027	24.90	0.5450	24.45	1.137	0.3952	75	0.40	101.99	0
101	Acid Soluble Ca (24%)	0405	24.95	0.9000	24.45	1.137	0.3952	75	0.44	101.99	0
101	Acid Soluble Ca (24%)	0546	25.03	0.0624	24.45	1.137	0.3952	75	0.52	101.03	0
101	Acid Soluble Ca (24%)	0368	25.07	0.0287	24.45	1.137	0.3952	75	0.55	101.99	0
101	Acid Soluble Ca (24%)	0588	25.10	0.2000	24.45	1.137	0.3952	75	0.58	101.33	0
101	Acid Soluble Ca (24%)	0563	25.19	0.1830	24.45	1.137	0.3952	75	0.66	101.33	0
101	Acid Soluble Ca (24%)	0587	25.41	0.1900	24.45	1.137	0.3952	75	0.84	101.99	0
101	Acid Soluble Ca (24%)	0415	25.54‡	0.4025	24.45	1.137	0.3952	75	0.96	101.01	0
101	Acid Soluble Ca (24%)	0558	25.57‡	0.0642	24.45	1.137	0.3952	75	0.99	101.99	0
101	Acid Soluble Ca (24%)	0042	25.73‡	0.8200	24.45	1.137	0.3952	75	1.13	101.99	0
101	Acid Soluble Ca (24%)	0515	26.19‡	0.5887	24.45	1.137	0.3952	75	1.53	101.99	0
101	Acid Soluble Ca (24%)	0519	26.44‡	0.0700	24.45	1.137	0.3952	75	1.75	101.99	0
101	Acid Soluble Ca (24%)	0073	26.59‡	0.3100	24.45	1.137	0.3952	75	1.88	101.00	0
101	Acid Soluble Ca (24%)	0220	26.59‡	0.4300	24.45	1.137	0.3952	75	1.88	101.32	0
101	Acid Soluble Ca (24%)	0291	27.02‡	0.0300	24.45	1.137	0.3952	75	2.26	101.30	0
101	Acid Soluble Ca (24%)	0433	27.20‡	0.5200	24.45	1.137	0.3952	75	2.42	101.30	0
101	Acid Soluble Ca (24%)	0049	27.30‡	0.9700	24.45	1.137	0.3952	75	2.51	101.30	0
101	Acid Soluble Ca (24%)	0452	27.38‡	0.0200	24.45	1.137	0.3952	75	2.58	101.30	0
101	Acid Soluble Ca (24%)	0095	27.55‡	0.2400	24.45	1.137	0.3952	75	2.73	101.32	0
101	Acid Soluble Ca (24%)	0444	38.23‡	0.0100	24.45	1.137	0.3952	75	12.12	101.30	0
101	Acid Soluble Ca (24%)	0324	24.45	4.700	24.45	1.137	0.3952	75	0.00	101.30	1
101	Acid Soluble Ca (24%)	0515	25.82‡	3.544	24.45	1.137	0.3952	75	1.21	101.33	1
101	Acid Soluble Ca (24%)	0578	6.659‡	0.0100	24.45	1.137	0.3952	75	-15.64	101.99	2
121	Acid Soluble Mg (5%)	0578	2.601‡	0.0470	6.491	0.8671	0.1372	75	-4.49	121.99	0
121	Acid Soluble Mg (5%)	0476	3.325‡	0.0187	6.491	0.8671	0.1372	75	-3.65	121.99	0
121	Acid Soluble Mg (5%)	0529	4.795‡	0.1900	6.491	0.8671	0.1372	75	-1.96	121.70	0
121	Acid Soluble Mg (5%)	0548	4.865‡	0.0700	6.491	0.8671	0.1372	75	-1.88	121.70	0
121	Acid Soluble Mg (5%)	0551	5.027‡	0.0020	6.491	0.8671	0.1372	75	-1.69	121.99	0
121	Acid Soluble Mg (5%)	0169	5.031‡	0.0080	6.491	0.8671	0.1372	75	-1.68	121.33	0
121	Acid Soluble Mg (5%)	0560	5.067‡	0.1480	6.491	0.8671	0.1372	75	-1.64	121.99	0
121	Acid Soluble Mg (5%)	0559	5.085‡	0.0100	6.491	0.8671	0.1372	75	-1.62	121.99	0
121	Acid Soluble Mg (5%)	0534	5.150‡	0.5000	6.491	0.8671	0.1372	75	-1.55	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 (5%)	0518	5.155†	0.0900	6.491	0.8671	0.1372	75	-1.54	121.70	0
121	Acid Soluble Mg (5%)	0481	5.175†	0.2100	6.491	0.8671	0.1372	75	-1.52	121.99	0
121	Acid Soluble Mg (5%)	0519	5.245†	0.1100	6.491	0.8671	0.1372	75	-1.44	121.99	0
121	Acid Soluble Mg (5%)	0234	5.290†	0.0600	6.491	0.8671	0.1372	75	-1.39	121.30	0
121	Acid Soluble Mg (5%)	0532	5.530†	0.1600	6.491	0.8671	0.1372	75	-1.11	121.70	0
121	Acid Soluble Mg (5%)	0042	5.590†	0.1400	6.491	0.8671	0.1372	75	-1.04	121.99	0
121	Acid Soluble Mg (5%)	0524	5.597†	0.0304	6.491	0.8671	0.1372	75	-1.03	121.99	0
121	Acid Soluble Mg (5%)	0515	5.660†	0.3580	6.491	0.8671	0.1372	75	-0.96	121.99	0
121	Acid Soluble Mg (5%)	0043	5.910†	0.2200	6.491	0.8671	0.1372	75	-0.67	121.33	0
121	Acid Soluble Mg (5%)	0542	5.965†	0.0300	6.491	0.8671	0.1372	75	-0.61	121.33	0
121	Acid Soluble Mg (5%)	0255	6.089	0.2960	6.491	0.8671	0.1372	75	-0.46	121.30	0
121	Acid Soluble Mg (5%)	0102	6.170	0.0400	6.491	0.8671	0.1372	75	-0.37	121.30	0
121	Acid Soluble Mg (5%)	0397	6.209	0.0616	6.491	0.8671	0.1372	75	-0.33	121.30	0
121	Acid Soluble Mg (5%)	0444	6.225	0.0700	6.491	0.8671	0.1372	75	-0.31	121.30	0
121	Acid Soluble Mg (5%)	0521	6.229	0.0000	6.491	0.8671	0.1372	75	-0.30	121.32	0
121	Acid Soluble Mg (5%)	0231	6.305	0.0900	6.491	0.8671	0.1372	75	-0.21	121.30	0
121	Acid Soluble Mg (5%)	0029	6.314	0.0250	6.491	0.8671	0.1372	75	-0.20	121.00	0
121	Acid Soluble Mg (5%)	0485	6.384	0.3520	6.491	0.8671	0.1372	75	-0.12	121.00	0
121	Acid Soluble Mg (5%)	0568	6.405	0.0100	6.491	0.8671	0.1372	75	-0.10	121.30	0
121	Acid Soluble Mg (5%)	0035	6.410	0.2400	6.491	0.8671	0.1372	75	-0.09	121.30	0
121	Acid Soluble Mg (5%)	0553	6.500	0.6000	6.491	0.8671	0.1372	75	0.01	121.00	0
121	Acid Soluble Mg (5%)	0157	6.565	0.2900	6.491	0.8671	0.1372	75	0.09	121.30	0
121	Acid Soluble Mg (5%)	0451	6.573	0.0070	6.491	0.8671	0.1372	75	0.09	121.30	0
121	Acid Soluble Mg (5%)	0025	6.610	0.1400	6.491	0.8671	0.1372	75	0.14	121.33	0
121	Acid Soluble Mg (5%)	0552	6.655	0.0900	6.491	0.8671	0.1372	75	0.19	121.99	0
121	Acid Soluble Mg (5%)	0561	6.670	0.0200	6.491	0.8671	0.1372	75	0.21	121.33	0
121	Acid Soluble Mg (5%)	0588	6.685	0.3500	6.491	0.8671	0.1372	75	0.22	121.33	0
121	Acid Soluble Mg (5%)	0377	6.700	0.2400	6.491	0.8671	0.1372	75	0.24	121.30	0
121	Acid Soluble Mg (5%)	0095	6.715	0.3100	6.491	0.8671	0.1372	75	0.26	121.32	0
121	Acid Soluble Mg (5%)	0220	6.730	0.1400	6.491	0.8671	0.1372	75	0.28	121.32	0
121	Acid Soluble Mg (5%)	0433	6.745	0.0500	6.491	0.8671	0.1372	75	0.29	121.30	0
121	Acid Soluble Mg (5%)	0037	6.765	0.0560	6.491	0.8671	0.1372	75	0.32	121.33	0
121	Acid Soluble Mg (5%)	0136	6.765	0.0300	6.491	0.8671	0.1372	75	0.32	121.33	0
121	Acid Soluble Mg (5%)	0405	6.795	0.1700	6.491	0.8671	0.1372	75	0.35	121.99	0
121	Acid Soluble Mg (5%)	0580	6.800	0.0000	6.491	0.8671	0.1372	75	0.36	121.00	0
121	Acid Soluble Mg (5%)	0535	6.800	0.2000	6.491	0.8671	0.1372	75	0.36	121.00	0
121	Acid Soluble Mg (5%)	0535	6.800	0.2000	6.491	0.8671	0.1372	75	0.36	121.70	0
121	Acid Soluble Mg (5%)	0533	6.835	0.2300	6.491	0.8671	0.1372	75	0.40	121.00	0
121	Acid Soluble Mg (5%)	0389	6.873	0.0930	6.491	0.8671	0.1372	75	0.44	121.99	0
121	Acid Soluble Mg (5%)	0354	6.880	0.0200	6.491	0.8671	0.1372	75	0.45	121.30	0
121	Acid Soluble Mg (5%)	0498	6.900	0.2000	6.491	0.8671	0.1372	75	0.47	121.02	0
121	Acid Soluble Mg (5%)	0423	6.907	0.0630	6.491	0.8671	0.1372	75	0.48	121.32	0
121	Acid Soluble Mg (5%)	0028	6.910	0.3200	6.491	0.8671	0.1372	75	0.48	121.32	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				
121	Acid Soluble Mg (5%)	0027	6.940	0.2440	6.491	0.8671	0.1372	75	0.52	121.99	0
121	Acid Soluble Mg (5%)	0546	6.954	0.0050	6.491	0.8671	0.1372	75	0.53	121.03	0
121	Acid Soluble Mg (5%)	0040	6.965	0.0700	6.491	0.8671	0.1372	75	0.55	121.00	0
121	Acid Soluble Mg (5%)	0587	6.970	0.1200	6.491	0.8671	0.1372	75	0.55	121.99	0
121	Acid Soluble Mg (5%)	0547	6.985	0.0300	6.491	0.8671	0.1372	75	0.57	121.99	0
121	Acid Soluble Mg (5%)	0325	6.985	0.1700	6.491	0.8671	0.1372	75	0.57	121.30	0
121	Acid Soluble Mg (5%)	0260	6.995	0.6500	6.491	0.8671	0.1372	75	0.58	121.33	0
121	Acid Soluble Mg (5%)	0360	7.025±	0.1300	6.491	0.8671	0.1372	75	0.62	121.30	0
121	Acid Soluble Mg (5%)	0324	7.085±	0.6300	6.491	0.8671	0.1372	75	0.68	121.30	0
121	Acid Soluble Mg (5%)	0368	7.087±	0.0304	6.491	0.8671	0.1372	75	0.69	121.99	0
121	Acid Soluble Mg (5%)	0292	7.140±	0.0200	6.491	0.8671	0.1372	75	0.75	121.32	0
121	Acid Soluble Mg (5%)	0527	7.266±	0.0218	6.491	0.8671	0.1372	75	0.89	121.33	0
121	Acid Soluble Mg (5%)	0472	7.270±	0.0400	6.491	0.8671	0.1372	75	0.90	121.33	0
121	Acid Soluble Mg (5%)	0117	7.275±	0.0421	6.491	0.8671	0.1372	75	0.90	121.33	0
121	Acid Soluble Mg (5%)	0513	7.395±	0.0300	6.491	0.8671	0.1372	75	1.04	121.00	0
121	Acid Soluble Mg (5%)	0177	7.427±	0.1424	6.491	0.8671	0.1372	75	1.08	121.33	0
121	Acid Soluble Mg (5%)	0049	7.430±	0.0111	6.491	0.8671	0.1372	75	1.08	121.30	0
121	Acid Soluble Mg (5%)	0452	7.440±	0.1000	6.491	0.8671	0.1372	75	1.09	121.30	0
121	Acid Soluble Mg (5%)	0291	7.555±	0.0100	6.491	0.8671	0.1372	75	1.23	121.30	0
121	Acid Soluble Mg (5%)	0073	7.625±	0.0900	6.491	0.8671	0.1372	75	1.31	121.00	0
121	Acid Soluble Mg (5%)	0415	7.643±	0.0396	6.491	0.8671	0.1372	75	1.33	121.01	0
121	Acid Soluble Mg (5%)	0200	8.785±	0.0500	6.491	0.8671	0.1372	75	2.65	121.30	0
121	Acid Soluble Mg (5%)	0558	10.44±	0.2090	6.491	0.8671	0.1372	75	4.56	121.99	0
121	Acid Soluble Mg (5%)	0055	6.920	0.8200	6.491	0.8671	0.1372	75	0.49	121.33	1
121	Acid Soluble Mg (5%)	0515	7.120±	0.9669	6.491	0.8671	0.1372	75	0.73	121.33	1
131	Water Soluble Mg (%)	0558	0.0054	0.0001	0.5846	1.094	0.0022	7	-0.48	131.00	0
131	Water Soluble Mg (%)	0405	0.0200	0.0000	0.5846	1.094	0.0022	7	-0.47	131.30	0
131	Water Soluble Mg (%)	0485	0.0213	0.0001	0.5846	1.094	0.0022	7	-0.47	131.00	0
131	Water Soluble Mg (%)	0444	0.0240	0.0060	0.5846	1.094	0.0022	7	-0.46	131.30	0
131	Water Soluble Mg (%)	0535	0.0275	0.0050	0.5846	1.094	0.0022	7	-0.46	131.70	0
131	Water Soluble Mg (%)	0551	1.997	0.0020	0.5846	1.094	0.0022	7	1.17	131.99	0
131	Water Soluble Mg (%)	0559	1.997	0.0020	0.5846	1.094	0.0022	7	1.17	131.99	0
131	Water Soluble Mg (%)	0510	7.520	0.0520	0.5846	1.094	0.0022	7	5.73	131.70	1
143	Elemental S (%)	0389	0.1670	0.0060				1		143.99	0
145	Sulfate S, HCl soluble (%)	0553	0.0600	0.0000				1		145.99	0
148	Total S (%)	0354	0.1100	0.0200	0.1715	0.0456	0.0087	5	-1.18	148.99	0
148	Total S (%)	0546	0.1512	0.0019	0.1715	0.0456	0.0087	5	-0.39	148.07	0
148	Total S (%)	0563	0.1655	0.0099	0.1715	0.0456	0.0087	5	-0.12	148.07	0
148	Total S (%)	0472	0.2050	0.0100	0.1715	0.0456	0.0087	5	0.64	148.07	0
148	Total S (%)	0422	0.2259	0.0016	0.1715	0.0456	0.0087	5	1.04	148.99	0
148	Total S (%)	0515	0.2914	0.0745	0.1715	0.0456	0.0087	5	2.29	148.07	1
148	Total S (%)	0527	< 0.1		0.1715	0.0456	0.0087	5		148.07	5
149	S - HNO3 soluble (%)	0524	0.1075	0.0220				2		149.04	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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149	S - HNO3 soluble (%)	0423	0.1495	0.0010				2		149.04	0
151	Acid Soluble As (ppm)	0558	0.1082	0.0007	0.6253	0.3119	0.0250	7	-1.66	151.99	0
151	Acid Soluble As (ppm)	0519	0.4950	0.0300	0.6253	0.3119	0.0250	7	-0.42	151.99	0
151	Acid Soluble As (ppm)	0476	0.5680	0.0380	0.6253	0.3119	0.0250	7	-0.18	151.32	0
151	Acid Soluble As (ppm)	0548	0.6150	0.0100	0.6253	0.3119	0.0250	7	-0.03	151.33	0
151	Acid Soluble As (ppm)	0498	0.7000	0.0000	0.6253	0.3119	0.0250	7	0.24	151.99	0
151	Acid Soluble As (ppm)	0524	0.7483	0.0400	0.6253	0.3119	0.0250	7	0.39	151.30	0
151	Acid Soluble As (ppm)	0563	1.619	0.0563	0.6253	0.3119	0.0250	7	3.18	151.33	0
151	Acid Soluble As (ppm)	0220	12.05	1.500	0.6253	0.3119	0.0250	7	36.63	151.99	1
151	Acid Soluble As (ppm)	0255	0.0000	0.0000	0.6253	0.3119	0.0250	7		151.30	4
151	Acid Soluble As (ppm)	0527	< 0.0001		0.6253	0.3119	0.0250	7		151.33	5
151	Acid Soluble As (ppm)	0578	< 0.01		0.6253	0.3119	0.0250	7		151.99	5
151	Acid Soluble As (ppm)	0368	< 0.3		0.6253	0.3119	0.0250	7		151.34	5
151	Acid Soluble As (ppm)	0481	< 0.5		0.6253	0.3119	0.0250	7		151.99	5
151	Acid Soluble As (ppm)	0405	< 1		0.6253	0.3119	0.0250	7		151.99	5
151	Acid Soluble As (ppm)	0547	< 10		0.6253	0.3119	0.0250	7		151.30	5
151	Acid Soluble As (ppm)	0117	< 10		0.6253	0.3119	0.0250	7		151.33	5
165	Acid Soluble B (%)	0255	0.0010	0.0000	0.0136	0.0079	0.0020	37	-1.59	165.99	0
165	Acid Soluble B (%)	0397	0.0040	0.0002	0.0136	0.0079	0.0020	37	-1.21	165.30	0
165	Acid Soluble B (%)	0515	0.0054	0.0001	0.0136	0.0079	0.0020	37	-1.04	165.99	0
165	Acid Soluble B (%)	0452	0.0060	0.0001	0.0136	0.0079	0.0020	37	-0.97	165.99	0
165	Acid Soluble B (%)	0389	0.0063	0.0002	0.0136	0.0079	0.0020	37	-0.92	165.30	0
165	Acid Soluble B (%)	0368	0.0076	0.0001	0.0136	0.0079	0.0020	37	-0.76	165.99	0
165	Acid Soluble B (%)	0095	0.0077	0.0001	0.0136	0.0079	0.0020	37	-0.75	165.99	0
165	Acid Soluble B (%)	0524	0.0078	0.0009	0.0136	0.0079	0.0020	37	-0.74	165.99	0
165	Acid Soluble B (%)	0542	0.0080	0.0000	0.0136	0.0079	0.0020	37	-0.70	165.30	0
165	Acid Soluble B (%)	0423	0.0080	0.0000	0.0136	0.0079	0.0020	37	-0.70	165.99	0
165	Acid Soluble B (%)	0136	0.0092	0.0001	0.0136	0.0079	0.0020	37	-0.56	165.99	0
165	Acid Soluble B (%)	0117	0.0098	0.0001	0.0136	0.0079	0.0020	37	-0.48	165.99	0
165	Acid Soluble B (%)	0260	0.0098	0.0009	0.0136	0.0079	0.0020	37	-0.48	165.99	0
165	Acid Soluble B (%)	0234	0.0100	0.0000	0.0136	0.0079	0.0020	37	-0.45	165.30	0
165	Acid Soluble B (%)	0472	0.0100	0.0000	0.0136	0.0079	0.0020	37	-0.45	165.99	0
165	Acid Soluble B (%)	0578	0.0102	0.0001	0.0136	0.0079	0.0020	37	-0.43	165.00	0
165	Acid Soluble B (%)	0422	0.0104	0.0000	0.0136	0.0079	0.0020	37	-0.40	165.30	0
165	Acid Soluble B (%)	0527	0.0105	0.0001	0.0136	0.0079	0.0020	37	-0.39	165.99	0
165	Acid Soluble B (%)	0551	0.0107	0.0002	0.0136	0.0079	0.0020	37	-0.36	165.99	0
165	Acid Soluble B (%)	0559	0.0109	0.0001	0.0136	0.0079	0.0020	37	-0.34	165.99	0
165	Acid Soluble B (%)	0049	0.0110	0.0020	0.0136	0.0079	0.0020	37	-0.32	165.99	0
165	Acid Soluble B (%)	0055	0.0115	0.0010	0.0136	0.0079	0.0020	37	-0.26	165.00	0
165	Acid Soluble B (%)	0433	0.0155	0.0010	0.0136	0.0079	0.0020	37	0.25	165.30	0
165	Acid Soluble B (%)	0220	0.0155	0.0010	0.0136	0.0079	0.0020	37	0.25	165.99	0
165	Acid Soluble B (%)	0558	0.0165	0.0003	0.0136	0.0079	0.0020	37	0.37	165.00	0
165	Acid Soluble B (%)	0028	0.0185	0.0010	0.0136	0.0079	0.0020	37	0.63	165.00	0

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165	Acid Soluble B (%)	0042	0.0190	0.0100	0.0136	0.0079	0.0020	37	0.69	165.99	0
165	Acid Soluble B (%)	0481	0.0200	0.0000	0.0136	0.0079	0.0020	37	0.82	165.00	0
165	Acid Soluble B (%)	0580	0.0200	0.0000	0.0136	0.0079	0.0020	37	0.82	165.00	0
165	Acid Soluble B (%)	0292	0.0200	0.0000	0.0136	0.0079	0.0020	37	0.82	165.30	0
165	Acid Soluble B (%)	0535	0.0205	0.0010	0.0136	0.0079	0.0020	37	0.88	165.00	0
165	Acid Soluble B (%)	0029	0.0235	0.0010	0.0136	0.0079	0.0020	37	1.26	165.00	0
165	Acid Soluble B (%)	0519	0.0250	0.0100	0.0136	0.0079	0.0020	37	1.45	165.99	0
165	Acid Soluble B (%)	0498	0.0300	0.0000	0.0136	0.0079	0.0020	37	2.09	165.00	0
165	Acid Soluble B (%)	0553	0.0350	0.0000	0.0136	0.0079	0.0020	37	2.72	165.00	0
165	Acid Soluble B (%)	0562	0.0625	0.0210	0.0136	0.0079	0.0020	37	6.21	165.99	0
165	Acid Soluble B (%)	0552	0.1400	0.0200	0.0136	0.0079	0.0020	37	16.05	165.99	0
165	Acid Soluble B (%)	0548	195.7	0.0700	0.0136	0.0079	0.0020	37	24840.72	165.30	2
165	Acid Soluble B (%)	0324	< 0.01		0.0136	0.0079	0.0020	37		165.30	5
165	Acid Soluble B (%)	0354	< 0.01		0.0136	0.0079	0.0020	37		165.30	5
165	Acid Soluble B (%)	0547	< 0.01		0.0136	0.0079	0.0020	37		165.99	5
165	Acid Soluble B (%)	0405	< 0.05		0.0136	0.0079	0.0020	37		165.00	5
171	Water Soluble B (%)	0538	0.0150	0.0100	0.0203	0.0055	0.0053	3	-0.97	171.10	0
171	Water Soluble B (%)	0537	0.0200	0.0000	0.0203	0.0055	0.0053	3	-0.06	171.10	0
171	Water Soluble B (%)	0533	0.0260	0.0060	0.0203	0.0055	0.0053	3	1.03	171.10	0
181	Acid Soluble Cd (ppm)	0548	0.0650	0.0100	0.3005	0.2614	0.0871	8	-0.90	181.33	0
181	Acid Soluble Cd (ppm)	0519	0.0850	0.0100	0.3005	0.2614	0.0871	8	-0.82	181.99	0
181	Acid Soluble Cd (ppm)	0563	0.1049	0.0048	0.3005	0.2614	0.0871	8	-0.75	181.33	0
181	Acid Soluble Cd (ppm)	0397	0.1836	0.0044	0.3005	0.2614	0.0871	8	-0.45	181.00	0
181	Acid Soluble Cd (ppm)	0444	0.3150	0.0100	0.3005	0.2614	0.0871	8	0.06	181.30	0
181	Acid Soluble Cd (ppm)	0524	0.4635	0.0485	0.3005	0.2614	0.0871	8	0.62	181.30	0
181	Acid Soluble Cd (ppm)	0476	0.4945	0.1090	0.3005	0.2614	0.0871	8	0.74	181.32	0
181	Acid Soluble Cd (ppm)	0535	0.7500	0.5000	0.3005	0.2614	0.0871	8	1.72	181.99	0
181	Acid Soluble Cd (ppm)	0255	1.899	2.789	0.3005	0.2614	0.0871	8	6.11	181.30	1
181	Acid Soluble Cd (ppm)	0527	< 0.0001		0.3005	0.2614	0.0871	8		181.33	5
181	Acid Soluble Cd (ppm)	0405	< 0.01		0.3005	0.2614	0.0871	8		181.99	5
181	Acid Soluble Cd (ppm)	0578	< 0.05		0.3005	0.2614	0.0871	8		181.99	5
181	Acid Soluble Cd (ppm)	0368	< 0.1		0.3005	0.2614	0.0871	8		181.34	5
181	Acid Soluble Cd (ppm)	0547	< 0.5		0.3005	0.2614	0.0871	8		181.34	5
181	Acid Soluble Cd (ppm)	0481	< 0.5		0.3005	0.2614	0.0871	8		181.99	5
181	Acid Soluble Cd (ppm)	0117	< 5		0.3005	0.2614	0.0871	8		181.33	5
181	Acid Soluble Cd (ppm)	0558	< 15		0.3005	0.2614	0.0871	8		181.99	5
190	Water Soluble Cl (%)	0553	0.2950	0.0100				1		190.00	0
191	Acid Soluble Cr (ppm)	0444	1,036	122.0	1,987	418.1	96.09	22	-2.28	191.30	0
191	Acid Soluble Cr (ppm)	0519	1,210	34.13	1,987	418.1	96.09	22	-1.86	191.99	0
191	Acid Soluble Cr (ppm)	0476	1,375	170.0	1,987	418.1	96.09	22	-1.46	191.32	0
191	Acid Soluble Cr (ppm)	0389	1,638	32.00	1,987	418.1	96.09	22	-0.84	191.30	0
191	Acid Soluble Cr (ppm)	0027	1,750	100.0	1,987	418.1	96.09	22	-0.57	191.30	0
191	Acid Soluble Cr (ppm)	0547	1,750	260.0	1,987	418.1	96.09	22	-0.57	191.34	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				
191	Acid Soluble Cr (ppm)	0524	1,781	7.371	1,987	418.1	96.09	22	-0.49	191.30	0
191	Acid Soluble Cr (ppm)	0035	1,821	265.0	1,987	418.1	96.09	22	-0.40	191.30	0
191	Acid Soluble Cr (ppm)	0481	1,893	55.60	1,987	418.1	96.09	22	-0.23	191.99	0
191	Acid Soluble Cr (ppm)	0452	1,926	11.00	1,987	418.1	96.09	22	-0.15	191.30	0
191	Acid Soluble Cr (ppm)	0535	2,000	0.0000	1,987	418.1	96.09	22	0.03	191.99	0
191	Acid Soluble Cr (ppm)	0405	2,052	10.00	1,987	418.1	96.09	22	0.15	191.99	0
191	Acid Soluble Cr (ppm)	0515	2,054	155.1	1,987	418.1	96.09	22	0.16	191.34	0
191	Acid Soluble Cr (ppm)	0578	2,059	202.0	1,987	418.1	96.09	22	0.17	191.99	0
191	Acid Soluble Cr (ppm)	0136	2,102	110.0	1,987	418.1	96.09	22	0.27	191.33	0
191	Acid Soluble Cr (ppm)	0368	2,185	370.0	1,987	418.1	96.09	22	0.47	191.34	0
191	Acid Soluble Cr (ppm)	0397	2,305	40.50	1,987	418.1	96.09	22	0.76	191.00	0
191	Acid Soluble Cr (ppm)	0548	2,327	3.700	1,987	418.1	96.09	22	0.81	191.33	0
191	Acid Soluble Cr (ppm)	0042	2,375	44.40	1,987	418.1	96.09	22	0.93	191.99	0
191	Acid Soluble Cr (ppm)	0220	2,382	71.00	1,987	418.1	96.09	22	0.94	191.32	0
191	Acid Soluble Cr (ppm)	0563	2,712	7.940	1,987	418.1	96.09	22	1.73	191.33	0
191	Acid Soluble Cr (ppm)	0527	2,877	42.28	1,987	418.1	96.09	22	2.13	191.33	0
191	Acid Soluble Cr (ppm)	0515	3,213	521.1	1,987	418.1	96.09	22	2.93	191.33	1
202	Acid Soluble Co (ppm)	0519	8.875	0.0500	53.20	30.21	3.308	24	-1.47	202.99	0
202	Acid Soluble Co (ppm)	0521	15.07	0.0000	53.20	30.21	3.308	24	-1.26	202.32	0
202	Acid Soluble Co (ppm)	0389	19.47	0.9100	53.20	30.21	3.308	24	-1.12	202.30	0
202	Acid Soluble Co (ppm)	0397	25.49	0.1710	53.20	30.21	3.308	24	-0.92	202.30	0
202	Acid Soluble Co (ppm)	0578	26.15	6.070	53.20	30.21	3.308	24	-0.90	202.99	0
202	Acid Soluble Co (ppm)	0368	29.50	9.000	53.20	30.21	3.308	24	-0.78	202.34	0
202	Acid Soluble Co (ppm)	0515	34.14	3.116	53.20	30.21	3.308	24	-0.63	202.34	0
202	Acid Soluble Co (ppm)	0136	36.00	0.4000	53.20	30.21	3.308	24	-0.57	202.33	0
202	Acid Soluble Co (ppm)	0027	38.00	2.000	53.20	30.21	3.308	24	-0.50	202.30	0
202	Acid Soluble Co (ppm)	0547	40.10	5.000	53.20	30.21	3.308	24	-0.43	202.34	0
202	Acid Soluble Co (ppm)	0035	42.85	10.10	53.20	30.21	3.308	24	-0.34	202.30	0
202	Acid Soluble Co (ppm)	0476	43.60	5.832	53.20	30.21	3.308	24	-0.32	202.32	0
202	Acid Soluble Co (ppm)	0524	57.21	3.072	53.20	30.21	3.308	24	0.13	202.30	0
202	Acid Soluble Co (ppm)	0481	57.75	3.300	53.20	30.21	3.308	24	0.15	202.99	0
202	Acid Soluble Co (ppm)	0548	61.44	0.0400	53.20	30.21	3.308	24	0.27	202.33	0
202	Acid Soluble Co (ppm)	0220	69.50	1.000	53.20	30.21	3.308	24	0.54	202.99	0
202	Acid Soluble Co (ppm)	0255	74.38	7.480	53.20	30.21	3.308	24	0.70	202.99	0
202	Acid Soluble Co (ppm)	0405	74.90	3.400	53.20	30.21	3.308	24	0.72	202.99	0
202	Acid Soluble Co (ppm)	0423	75.38	0.4200	53.20	30.21	3.308	24	0.73	202.32	0
202	Acid Soluble Co (ppm)	0563	83.01	4.289	53.20	30.21	3.308	24	0.99	202.33	0
202	Acid Soluble Co (ppm)	0527	85.38	1.129	53.20	30.21	3.308	24	1.07	202.33	0
202	Acid Soluble Co (ppm)	0037	90.47	2.345	53.20	30.21	3.308	24	1.23	202.33	0
202	Acid Soluble Co (ppm)	0535	92.00	8.000	53.20	30.21	3.308	24	1.28	202.99	0
202	Acid Soluble Co (ppm)	0546	96.10	2.261	53.20	30.21	3.308	24	1.42	202.33	0
202	Acid Soluble Co (ppm)	0515	113.3	41.95	53.20	30.21	3.308	24	1.99	202.33	1
221	Acid Soluble Cu (%)	0578	0.0016	0.0000	0.0067	0.0028	0.0022	49	-1.79	221.99	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				
221	Acid Soluble Cu (%)	0234	0.0030	0.0000	0.0067	0.0028	0.0022	49	-1.29	221.30	0
221	Acid Soluble Cu (%)	0476	0.0030	0.0000	0.0067	0.0028	0.0022	49	-1.29	221.99	0
221	Acid Soluble Cu (%)	0255	0.0040	0.0000	0.0067	0.0028	0.0022	49	-0.94	221.30	0
221	Acid Soluble Cu (%)	0027	0.0040	0.0000	0.0067	0.0028	0.0022	49	-0.94	221.99	0
221	Acid Soluble Cu (%)	0035	0.0042	0.0004	0.0067	0.0028	0.0022	49	-0.87	221.30	0
221	Acid Soluble Cu (%)	0397	0.0044	0.0001	0.0067	0.0028	0.0022	49	-0.82	221.30	0
221	Acid Soluble Cu (%)	0515	0.0045	0.0003	0.0067	0.0028	0.0022	49	-0.78	221.99	0
221	Acid Soluble Cu (%)	0043	0.0045	0.0010	0.0067	0.0028	0.0022	49	-0.77	221.33	0
221	Acid Soluble Cu (%)	0368	0.0046	0.0007	0.0067	0.0028	0.0022	49	-0.75	221.99	0
221	Acid Soluble Cu (%)	0558	0.0048	0.0002	0.0067	0.0028	0.0022	49	-0.66	221.99	0
221	Acid Soluble Cu (%)	0177	0.0050	0.0001	0.0067	0.0028	0.0022	49	-0.61	221.33	0
221	Acid Soluble Cu (%)	0542	0.0050	0.0000	0.0067	0.0028	0.0022	49	-0.59	221.33	0
221	Acid Soluble Cu (%)	0481	0.0050	0.0000	0.0067	0.0028	0.0022	49	-0.59	221.99	0
221	Acid Soluble Cu (%)	0524	0.0051	0.0003	0.0067	0.0028	0.0022	49	-0.57	221.99	0
221	Acid Soluble Cu (%)	0220	0.0054	0.0003	0.0067	0.0028	0.0022	49	-0.47	221.32	0
221	Acid Soluble Cu (%)	0029	0.0054	0.0002	0.0067	0.0028	0.0022	49	-0.45	221.00	0
221	Acid Soluble Cu (%)	0095	0.0055	0.0003	0.0067	0.0028	0.0022	49	-0.43	221.32	0
221	Acid Soluble Cu (%)	0377	0.0055	0.0010	0.0067	0.0028	0.0022	49	-0.41	221.30	0
221	Acid Soluble Cu (%)	0452	0.0056	0.0002	0.0067	0.0028	0.0022	49	-0.38	221.30	0
221	Acid Soluble Cu (%)	0040	0.0058	0.0009	0.0067	0.0028	0.0022	49	-0.32	221.00	0
221	Acid Soluble Cu (%)	0527	0.0059	0.0001	0.0067	0.0028	0.0022	49	-0.29	221.33	0
221	Acid Soluble Cu (%)	0515	0.0060	0.0009	0.0067	0.0028	0.0022	49	-0.25	221.33	0
221	Acid Soluble Cu (%)	0405	0.0060	0.0003	0.0067	0.0028	0.0022	49	-0.25	221.99	0
221	Acid Soluble Cu (%)	0498	0.0060	0.0000	0.0067	0.0028	0.0022	49	-0.24	221.02	0
221	Acid Soluble Cu (%)	0546	0.0060	0.0002	0.0067	0.0028	0.0022	49	-0.24	221.33	0
221	Acid Soluble Cu (%)	0547	0.0060	0.0000	0.0067	0.0028	0.0022	49	-0.24	221.99	0
221	Acid Soluble Cu (%)	0117	0.0061	0.0001	0.0067	0.0028	0.0022	49	-0.22	221.33	0
221	Acid Soluble Cu (%)	0531	0.0063	0.0005	0.0067	0.0028	0.0022	49	-0.15	221.00	0
221	Acid Soluble Cu (%)	0535	0.0063	0.0005	0.0067	0.0028	0.0022	49	-0.15	221.00	0
221	Acid Soluble Cu (%)	0037	0.0065	0.0010	0.0067	0.0028	0.0022	49	-0.06	221.33	0
221	Acid Soluble Cu (%)	0049	0.0066	0.0003	0.0067	0.0028	0.0022	49	-0.04	221.30	0
221	Acid Soluble Cu (%)	0422	0.0071	0.0002	0.0067	0.0028	0.0022	49	0.15	221.30	0
221	Acid Soluble Cu (%)	0485	0.0072	0.0002	0.0067	0.0028	0.0022	49	0.19	221.00	0
221	Acid Soluble Cu (%)	0136	0.0072	0.0002	0.0067	0.0028	0.0022	49	0.19	221.33	0
221	Acid Soluble Cu (%)	0551	0.0076	0.0002	0.0067	0.0028	0.0022	49	0.33	221.99	0
221	Acid Soluble Cu (%)	0559	0.0076	0.0002	0.0067	0.0028	0.0022	49	0.33	221.99	0
221	Acid Soluble Cu (%)	0451	0.0083	0.0006	0.0067	0.0028	0.0022	49	0.58	221.30	0
221	Acid Soluble Cu (%)	0354	0.0100	0.0000	0.0067	0.0028	0.0022	49	1.18	221.30	0
221	Acid Soluble Cu (%)	0536	0.0103	0.0015	0.0067	0.0028	0.0022	49	1.26	221.00	0
221	Acid Soluble Cu (%)	0538	0.0105	0.0010	0.0067	0.0028	0.0022	49	1.35	221.00	0
221	Acid Soluble Cu (%)	0537	0.0150	0.0100	0.0067	0.0028	0.0022	49	2.94	221.99	0
221	Acid Soluble Cu (%)	0389	0.0406	0.0013	0.0067	0.0028	0.0022	49	11.96	221.99	0
221	Acid Soluble Cu (%)	0042	0.0460	0.0100	0.0067	0.0028	0.0022	49	13.88	221.99	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				
221	Acid Soluble Cu (%)	0577	0.0500	0.0000	0.0067	0.0028	0.0022	49	15.29	221.00	0
221	Acid Soluble Cu (%)	0519	0.0550	0.0100	0.0067	0.0028	0.0022	49	17.06	221.99	0
221	Acid Soluble Cu (%)	0533	0.0650	0.0040	0.0067	0.0028	0.0022	49	20.59	221.00	0
221	Acid Soluble Cu (%)	0552	0.2100	0.0200	0.0067	0.0028	0.0022	49	71.76	221.30	0
221	Acid Soluble Cu (%)	0562	0.2100	0.0400	0.0067	0.0028	0.0022	49	71.76	221.99	0
221	Acid Soluble Cu (%)	0423	58.31	0.6600	0.0067	0.0028	0.0022	49	20575.68	221.32	1
221	Acid Soluble Cu (%)	0548	516.5	0.0500	0.0067	0.0028	0.0022	49	182272.56	221.33	2
221	Acid Soluble Cu (%)	0553	< 0.005		0.0067	0.0028	0.0022	49		221.00	5
221	Acid Soluble Cu (%)	0324	< 0.01		0.0067	0.0028	0.0022	49		221.30	5
221	Acid Soluble Cu (%)	0587	< 0.02		0.0067	0.0028	0.0022	49		221.99	5
221	Acid Soluble Cu (%)	0580	< 0.05		0.0067	0.0028	0.0022	49		221.00	5
241	Acid Soluble Fe (%)	0578	0.6388	0.0570	3.907	0.4666	0.1066	65	-7.01	241.99	0
241	Acid Soluble Fe (%)	0476	2.252	0.0600	3.907	0.4666	0.1066	65	-3.55	241.99	0
241	Acid Soluble Fe (%)	0481	2.280	0.0600	3.907	0.4666	0.1066	65	-3.49	241.99	0
241	Acid Soluble Fe (%)	0519	2.610	0.2600	3.907	0.4666	0.1066	65	-2.78	241.99	0
241	Acid Soluble Fe (%)	0534	2.750	0.1000	3.907	0.4666	0.1066	65	-2.48	241.00	0
241	Acid Soluble Fe (%)	0536	3.110	0.0400	3.907	0.4666	0.1066	65	-1.71	241.00	0
241	Acid Soluble Fe (%)	0538	3.230	0.0400	3.907	0.4666	0.1066	65	-1.45	241.00	0
241	Acid Soluble Fe (%)	0515	3.312	0.1831	3.907	0.4666	0.1066	65	-1.28	241.99	0
241	Acid Soluble Fe (%)	0472	3.340	0.0000	3.907	0.4666	0.1066	65	-1.22	241.33	0
241	Acid Soluble Fe (%)	0292	3.370	0.0000	3.907	0.4666	0.1066	65	-1.15	241.02	0
241	Acid Soluble Fe (%)	0255	3.547	0.2070	3.907	0.4666	0.1066	65	-0.77	241.30	0
241	Acid Soluble Fe (%)	0043	3.550	0.0400	3.907	0.4666	0.1066	65	-0.77	241.33	0
241	Acid Soluble Fe (%)	0562	3.550	0.1000	3.907	0.4666	0.1066	65	-0.77	241.99	0
241	Acid Soluble Fe (%)	0524	3.552	0.0705	3.907	0.4666	0.1066	65	-0.76	241.99	0
241	Acid Soluble Fe (%)	0102	3.565	0.0300	3.907	0.4666	0.1066	65	-0.73	241.30	0
241	Acid Soluble Fe (%)	0542	3.570	0.0000	3.907	0.4666	0.1066	65	-0.72	241.33	0
241	Acid Soluble Fe (%)	0234	3.575	0.0700	3.907	0.4666	0.1066	65	-0.71	241.30	0
241	Acid Soluble Fe (%)	0563	3.576	0.0273	3.907	0.4666	0.1066	65	-0.71	241.33	0
241	Acid Soluble Fe (%)	0397	3.666	0.0392	3.907	0.4666	0.1066	65	-0.52	241.30	0
241	Acid Soluble Fe (%)	0551	3.703	0.0020	3.907	0.4666	0.1066	65	-0.44	241.99	0
241	Acid Soluble Fe (%)	0559	3.704	0.0010	3.907	0.4666	0.1066	65	-0.44	241.99	0
241	Acid Soluble Fe (%)	0405	3.725	0.0900	3.907	0.4666	0.1066	65	-0.39	241.99	0
241	Acid Soluble Fe (%)	0553	3.745	0.0100	3.907	0.4666	0.1066	65	-0.35	241.00	0
241	Acid Soluble Fe (%)	0533	3.815	0.1900	3.907	0.4666	0.1066	65	-0.20	241.00	0
241	Acid Soluble Fe (%)	0444	3.840	0.0400	3.907	0.4666	0.1066	65	-0.14	241.30	0
241	Acid Soluble Fe (%)	0580	3.865	0.0100	3.907	0.4666	0.1066	65	-0.09	241.00	0
241	Acid Soluble Fe (%)	0042	3.895	0.2500	3.907	0.4666	0.1066	65	-0.03	241.99	0
241	Acid Soluble Fe (%)	0451	3.904	0.1930	3.907	0.4666	0.1066	65	-0.01	241.30	0
241	Acid Soluble Fe (%)	0485	3.905	0.2500	3.907	0.4666	0.1066	65	0.00	241.00	0
241	Acid Soluble Fe (%)	0029	3.906	0.0590	3.907	0.4666	0.1066	65	0.00	241.00	0
241	Acid Soluble Fe (%)	0231	3.915	0.0500	3.907	0.4666	0.1066	65	0.02	241.30	0
241	Acid Soluble Fe (%)	0433	3.930	0.1200	3.907	0.4666	0.1066	65	0.05	241.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
241	Acid Soluble Fe (%)	0515	3.931	0.0981	3.907	0.4666	0.1066	65	0.05	241.33	0
241	Acid Soluble Fe (%)	0423	3.946	0.0690	3.907	0.4666	0.1066	65	0.08	241.32	0
241	Acid Soluble Fe (%)	0531	3.950	0.1000	3.907	0.4666	0.1066	65	0.09	241.00	0
241	Acid Soluble Fe (%)	0535	3.950	0.1000	3.907	0.4666	0.1066	65	0.09	241.00	0
241	Acid Soluble Fe (%)	0324	3.950	0.1000	3.907	0.4666	0.1066	65	0.09	241.30	0
241	Acid Soluble Fe (%)	0552	3.970	0.0600	3.907	0.4666	0.1066	65	0.13	241.30	0
241	Acid Soluble Fe (%)	0537	3.975	0.0500	3.907	0.4666	0.1066	65	0.15	241.99	0
241	Acid Soluble Fe (%)	0558	3.978	0.1678	3.907	0.4666	0.1066	65	0.15	241.99	0
241	Acid Soluble Fe (%)	0136	3.995	0.1300	3.907	0.4666	0.1066	65	0.19	241.33	0
241	Acid Soluble Fe (%)	0037	4.013	0.1170	3.907	0.4666	0.1066	65	0.23	241.33	0
241	Acid Soluble Fe (%)	0389	4.053	0.0860	3.907	0.4666	0.1066	65	0.31	241.99	0
241	Acid Soluble Fe (%)	0040	4.060	0.3800	3.907	0.4666	0.1066	65	0.33	241.00	0
241	Acid Soluble Fe (%)	0360	4.105	0.2300	3.907	0.4666	0.1066	65	0.42	241.30	0
241	Acid Soluble Fe (%)	0377	4.105	0.4700	3.907	0.4666	0.1066	65	0.42	241.30	0
241	Acid Soluble Fe (%)	0117	4.119	0.0235	3.907	0.4666	0.1066	65	0.45	241.33	0
241	Acid Soluble Fe (%)	0220	4.125	0.0500	3.907	0.4666	0.1066	65	0.47	241.32	0
241	Acid Soluble Fe (%)	0547	4.125	0.1500	3.907	0.4666	0.1066	65	0.47	241.99	0
241	Acid Soluble Fe (%)	0260	4.160	0.1200	3.907	0.4666	0.1066	65	0.54	241.33	0
241	Acid Soluble Fe (%)	0354	4.220	0.0000	3.907	0.4666	0.1066	65	0.67	241.30	0
241	Acid Soluble Fe (%)	0177	4.248	0.1666	3.907	0.4666	0.1066	65	0.73	241.33	0
241	Acid Soluble Fe (%)	0587	4.275	0.0300	3.907	0.4666	0.1066	65	0.79	241.99	0
241	Acid Soluble Fe (%)	0527	4.379	0.0105	3.907	0.4666	0.1066	65	1.01	241.33	0
241	Acid Soluble Fe (%)	0049	4.402	0.0238	3.907	0.4666	0.1066	65	1.06	241.30	0
241	Acid Soluble Fe (%)	0452	4.405	0.1500	3.907	0.4666	0.1066	65	1.07	241.30	0
241	Acid Soluble Fe (%)	0513	4.450	0.0400	3.907	0.4666	0.1066	65	1.16	241.00	0
241	Acid Soluble Fe (%)	0028	4.480	0.1400	3.907	0.4666	0.1066	65	1.23	241.32	0
241	Acid Soluble Fe (%)	0368	4.500	0.0165	3.907	0.4666	0.1066	65	1.27	241.99	0
241	Acid Soluble Fe (%)	0095	4.570	0.2800	3.907	0.4666	0.1066	65	1.42	241.32	0
241	Acid Soluble Fe (%)	0422	4.621	0.3380	3.907	0.4666	0.1066	65	1.53	241.30	0
241	Acid Soluble Fe (%)	0521	4.759	0.0000	3.907	0.4666	0.1066	65	1.83	241.32	0
241	Acid Soluble Fe (%)	0498	4.850	0.1000	3.907	0.4666	0.1066	65	2.02	241.02	0
241	Acid Soluble Fe (%)	0577	4.875	0.3500	3.907	0.4666	0.1066	65	2.07	241.00	0
241	Acid Soluble Fe (%)	0220	4.895	0.1300	3.907	0.4666	0.1066	65	2.12	241.70	0
241	Acid Soluble Fe (%)	0035	3.285	0.5500	3.907	0.4666	0.1066	65	-1.33	241.30	1
241	Acid Soluble Fe (%)	0548	35,052	0.1100	3.907	0.4666	0.1066	65	75120.87	241.32	2
251	Acid Soluble Pb (ppm)	0481	0.6000	0.1000	4.344	5.306	0.7260	13	-0.71	251.99	0
251	Acid Soluble Pb (ppm)	0476	1.182	0.0160	4.344	5.306	0.7260	13	-0.60	251.32	0
251	Acid Soluble Pb (ppm)	0498	1.250	0.1000	4.344	5.306	0.7260	13	-0.58	251.00	0
251	Acid Soluble Pb (ppm)	0548	1.255	0.0300	4.344	5.306	0.7260	13	-0.58	251.33	0
251	Acid Soluble Pb (ppm)	0519	1.270	0.0400	4.344	5.306	0.7260	13	-0.58	251.99	0
251	Acid Soluble Pb (ppm)	0524	1.528	0.3319	4.344	5.306	0.7260	13	-0.53	251.30	0
251	Acid Soluble Pb (ppm)	0405	1.900	0.4000	4.344	5.306	0.7260	13	-0.46	251.99	0
251	Acid Soluble Pb (ppm)	0527	2.090	0.0172	4.344	5.306	0.7260	13	-0.42	251.33	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				
251	Acid Soluble Pb (ppm)	0397	3.502	0.0832	4.344	5.306	0.7260	13	-0.16	251.00	0
251	Acid Soluble Pb (ppm)	0578	4.985	0.3060	4.344	5.306	0.7260	13	0.12	251.99	0
251	Acid Soluble Pb (ppm)	0220	12.50	5.000	4.344	5.306	0.7260	13	1.54	251.99	0
251	Acid Soluble Pb (ppm)	0558	36.21	0.0135	4.344	5.306	0.7260	13	6.01	251.99	0
251	Acid Soluble Pb (ppm)	0027	58.50	3.000	4.344	5.306	0.7260	13	10.21	251.30	0
251	Acid Soluble Pb (ppm)	0535	31.00	6.000	4.344	5.306	0.7260	13	5.02	251.99	1
251	Acid Soluble Pb (ppm)	0255	0.0000	0.0000	4.344	5.306	0.7260	13		251.30	4
251	Acid Soluble Pb (ppm)	0368	< 0.5		4.344	5.306	0.7260	13		251.34	5
251	Acid Soluble Pb (ppm)	0136	< 3		4.344	5.306	0.7260	13		251.33	5
251	Acid Soluble Pb (ppm)	0117	< 5		4.344	5.306	0.7260	13		251.33	5
251	Acid Soluble Pb (ppm)	0547	< 5		4.344	5.306	0.7260	13		251.34	5
261	Acid Soluble Mn (%)	0578	0.1595	0.0083	0.7484	0.0876	0.0261	62	-6.73	261.99	0
261	Acid Soluble Mn (%)	0536	0.4610	0.0020	0.7484	0.0876	0.0261	62	-3.28	261.12	0
261	Acid Soluble Mn (%)	0538	0.4690	0.0020	0.7484	0.0876	0.0261	62	-3.19	261.12	0
261	Acid Soluble Mn (%)	0481	0.4950	0.0100	0.7484	0.0876	0.0261	62	-2.89	261.99	0
261	Acid Soluble Mn (%)	0476	0.5045	0.0070	0.7484	0.0876	0.0261	62	-2.79	261.99	0
261	Acid Soluble Mn (%)	0368	0.5936	0.0563	0.7484	0.0876	0.0261	62	-1.77	261.99	0
261	Acid Soluble Mn (%)	0534	0.6000	0.0000	0.7484	0.0876	0.0261	62	-1.70	261.12	0
261	Acid Soluble Mn (%)	0551	0.6020	0.0002	0.7484	0.0876	0.0261	62	-1.67	261.99	0
261	Acid Soluble Mn (%)	0234	0.6250	0.0100	0.7484	0.0876	0.0261	62	-1.41	261.30	0
261	Acid Soluble Mn (%)	0515	0.6446	0.0390	0.7484	0.0876	0.0261	62	-1.19	261.99	0
261	Acid Soluble Mn (%)	0035	0.6715	0.0070	0.7484	0.0876	0.0261	62	-0.88	261.30	0
261	Acid Soluble Mn (%)	0027	0.6790	0.0360	0.7484	0.0876	0.0261	62	-0.79	261.99	0
261	Acid Soluble Mn (%)	0562	0.6900	0.0600	0.7484	0.0876	0.0261	62	-0.67	261.99	0
261	Acid Soluble Mn (%)	0397	0.6928	0.0033	0.7484	0.0876	0.0261	62	-0.64	261.32	0
261	Acid Soluble Mn (%)	0524	0.6996	0.0450	0.7484	0.0876	0.0261	62	-0.56	261.99	0
261	Acid Soluble Mn (%)	0043	0.7000	0.0200	0.7484	0.0876	0.0261	62	-0.55	261.35	0
261	Acid Soluble Mn (%)	0519	0.7000	0.0400	0.7484	0.0876	0.0261	62	-0.55	261.99	0
261	Acid Soluble Mn (%)	0472	0.7050	0.0100	0.7484	0.0876	0.0261	62	-0.50	261.35	0
261	Acid Soluble Mn (%)	0558	0.7100	0.0553	0.7484	0.0876	0.0261	62	-0.44	261.99	0
261	Acid Soluble Mn (%)	0231	0.7100	0.0200	0.7484	0.0876	0.0261	62	-0.44	261.32	0
261	Acid Soluble Mn (%)	0255	0.7235	0.0450	0.7484	0.0876	0.0261	62	-0.28	261.99	0
261	Acid Soluble Mn (%)	0485	0.7295	0.1370	0.7484	0.0876	0.0261	62	-0.22	261.12	0
261	Acid Soluble Mn (%)	0580	0.7300	0.0200	0.7484	0.0876	0.0261	62	-0.21	261.12	0
261	Acid Soluble Mn (%)	0444	0.7300	0.0200	0.7484	0.0876	0.0261	62	-0.21	261.30	0
261	Acid Soluble Mn (%)	0542	0.7300	0.0000	0.7484	0.0876	0.0261	62	-0.21	261.35	0
261	Acid Soluble Mn (%)	0515	0.7357	0.0356	0.7484	0.0876	0.0261	62	-0.15	261.35	0
261	Acid Soluble Mn (%)	0531	0.7450	0.0100	0.7484	0.0876	0.0261	62	-0.04	261.12	0
261	Acid Soluble Mn (%)	0535	0.7450	0.0100	0.7484	0.0876	0.0261	62	-0.04	261.12	0
261	Acid Soluble Mn (%)	0537	0.7500	0.0200	0.7484	0.0876	0.0261	62	0.02	261.99	0
261	Acid Soluble Mn (%)	0433	0.7515	0.0430	0.7484	0.0876	0.0261	62	0.04	261.30	0
261	Acid Soluble Mn (%)	0324	0.7515	0.0570	0.7484	0.0876	0.0261	62	0.04	261.31	0
261	Acid Soluble Mn (%)	0405	0.7525	0.0110	0.7484	0.0876	0.0261	62	0.05	261.99	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				
261	Acid Soluble Mn (%)	0360	0.7550	0.0100	0.7484	0.0876	0.0261	62	0.08	261.31	0
261	Acid Soluble Mn (%)	0546	0.7593	0.0013	0.7484	0.0876	0.0261	62	0.12	261.35	0
261	Acid Soluble Mn (%)	0377	0.7600	0.0200	0.7484	0.0876	0.0261	62	0.13	261.32	0
261	Acid Soluble Mn (%)	0136	0.7600	0.0000	0.7484	0.0876	0.0261	62	0.13	261.35	0
261	Acid Soluble Mn (%)	0037	0.7660	0.0200	0.7484	0.0876	0.0261	62	0.20	261.35	0
261	Acid Soluble Mn (%)	0533	0.7700	0.1200	0.7484	0.0876	0.0261	62	0.25	261.12	0
261	Acid Soluble Mn (%)	0177	0.7721	0.0557	0.7484	0.0876	0.0261	62	0.27	261.35	0
261	Acid Soluble Mn (%)	0451	0.7757	0.0292	0.7484	0.0876	0.0261	62	0.31	261.32	0
261	Acid Soluble Mn (%)	0029	0.7830	0.0140	0.7484	0.0876	0.0261	62	0.40	261.12	0
261	Acid Soluble Mn (%)	0389	0.7907	0.0041	0.7484	0.0876	0.0261	62	0.48	261.99	0
261	Acid Soluble Mn (%)	0354	0.7950	0.0100	0.7484	0.0876	0.0261	62	0.53	261.30	0
261	Acid Soluble Mn (%)	0220	0.7950	0.0300	0.7484	0.0876	0.0261	62	0.53	261.34	0
261	Acid Soluble Mn (%)	0117	0.7975	0.0080	0.7484	0.0876	0.0261	62	0.56	261.35	0
261	Acid Soluble Mn (%)	0587	0.8050	0.0100	0.7484	0.0876	0.0261	62	0.65	261.99	0
261	Acid Soluble Mn (%)	0547	0.8060	0.0460	0.7484	0.0876	0.0261	62	0.66	261.99	0
261	Acid Soluble Mn (%)	0563	0.8079	0.0664	0.7484	0.0876	0.0261	62	0.68	261.35	0
261	Acid Soluble Mn (%)	0040	0.8135	0.0250	0.7484	0.0876	0.0261	62	0.74	261.12	0
261	Acid Soluble Mn (%)	0422	0.8143	0.0117	0.7484	0.0876	0.0261	62	0.75	261.30	0
261	Acid Soluble Mn (%)	0095	0.8150	0.0500	0.7484	0.0876	0.0261	62	0.76	261.34	0
261	Acid Soluble Mn (%)	0260	0.8265	0.0410	0.7484	0.0876	0.0261	62	0.89	261.35	0
261	Acid Soluble Mn (%)	0049	0.8331	0.0239	0.7484	0.0876	0.0261	62	0.97	261.32	0
261	Acid Soluble Mn (%)	0042	0.8375	0.0010	0.7484	0.0876	0.0261	62	1.02	261.99	0
261	Acid Soluble Mn (%)	0028	0.8415	0.0210	0.7484	0.0876	0.0261	62	1.06	261.34	0
261	Acid Soluble Mn (%)	0577	0.8500	0.0600	0.7484	0.0876	0.0261	62	1.16	261.11	0
261	Acid Soluble Mn (%)	0423	0.8545	0.0010	0.7484	0.0876	0.0261	62	1.21	261.34	0
261	Acid Soluble Mn (%)	0527	0.8603	0.0096	0.7484	0.0876	0.0261	62	1.28	261.35	0
261	Acid Soluble Mn (%)	0452	0.8950	0.0300	0.7484	0.0876	0.0261	62	1.67	261.30	0
261	Acid Soluble Mn (%)	0552	0.8950	0.0100	0.7484	0.0876	0.0261	62	1.67	261.32	0
261	Acid Soluble Mn (%)	0292	0.9250	0.0300	0.7484	0.0876	0.0261	62	2.02	261.14	0
261	Acid Soluble Mn (%)	0553	1.050	0.0200	0.7484	0.0876	0.0261	62	3.44	261.00	0
261	Acid Soluble Mn (%)	0548	6,571	2.350	0.7484	0.0876	0.0261	62	75049.65	261.34	2
281	Acid Soluble Hg (ppm)	0368	0.0018	0.0000	0.0750	0.1052	0.0105	6	-0.70	281.99	0
281	Acid Soluble Hg (ppm)	0035	0.0030	0.0020	0.0750	0.1052	0.0105	6	-0.68	281.99	0
281	Acid Soluble Hg (ppm)	0524	0.0036	0.0003	0.0750	0.1052	0.0105	6	-0.68	281.99	0
281	Acid Soluble Hg (ppm)	0548	0.0850	0.0100	0.0750	0.1052	0.0105	6	0.09	281.30	0
281	Acid Soluble Hg (ppm)	0563	0.1239	0.0004	0.0750	0.1052	0.0105	6	0.46	281.30	0
281	Acid Soluble Hg (ppm)	0519	0.7250	0.0500	0.0750	0.1052	0.0105	6	6.18	281.99	0
281	Acid Soluble Hg (ppm)	0578	7.802	0.4810	0.0750	0.1052	0.0105	6	73.41	281.99	2
281	Acid Soluble Hg (ppm)	0515	0.0000	0.0000	0.0750	0.1052	0.0105	6		281.30	4
281	Acid Soluble Hg (ppm)	0527	< 0.001		0.0750	0.1052	0.0105	6		281.30	5
281	Acid Soluble Hg (ppm)	0405	< 0.01		0.0750	0.1052	0.0105	6		281.99	5
281	Acid Soluble Hg (ppm)	0547	< 0.05		0.0750	0.1052	0.0105	6		281.99	5
281	Acid Soluble Hg (ppm)	0476	< 0.1		0.0750	0.1052	0.0105	6		281.30	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				
281	Acid Soluble Hg (ppm)	0558	< 0.1		0.0750	0.1052	0.0105	6		281.99	5
281	Acid Soluble Hg (ppm)	0117	< 0.2		0.0750	0.1052	0.0105	6		281.00	5
281	Acid Soluble Hg (ppm)	0481	< 0.5		0.0750	0.1052	0.0105	6		281.99	5
289	Acid Soluble Mo (30ppm)	0324	0.00750†	0.0002	77.04	25.47	2.405	31	-3.02	289.30	0
289	Acid Soluble Mo (30ppm)	0548	35.49†	0.0600	77.04	25.47	2.405	31	-1.63	289.33	0
289	Acid Soluble Mo (30ppm)	0519	37.10†	0.1900	77.04	25.47	2.405	31	-1.57	289.99	0
289	Acid Soluble Mo (30ppm)	0578	44.77†	3.240	77.04	25.47	2.405	31	-1.27	289.99	0
289	Acid Soluble Mo (30ppm)	0476	47.55†	7.464	77.04	25.47	2.405	31	-1.16	289.32	0
289	Acid Soluble Mo (30ppm)	0042	54.23	2.820	77.04	25.47	2.405	31	-0.90	289.99	0
289	Acid Soluble Mo (30ppm)	0397	54.75	1.032	77.04	25.47	2.405	31	-0.88	289.30	0
289	Acid Soluble Mo (30ppm)	0234	63.50	1.000	77.04	25.47	2.405	31	-0.53	289.30	0
289	Acid Soluble Mo (30ppm)	0377	65.40	3.600	77.04	25.47	2.405	31	-0.46	289.30	0
289	Acid Soluble Mo (30ppm)	0563	67.25	3.344	77.04	25.47	2.405	31	-0.38	289.33	0
289	Acid Soluble Mo (30ppm)	0521	69.44	0.0000	77.04	25.47	2.405	31	-0.30	289.32	0
289	Acid Soluble Mo (30ppm)	0515	70.93	5.981	77.04	25.47	2.405	31	-0.24	289.34	0
289	Acid Soluble Mo (30ppm)	0524	72.28	0.8979	77.04	25.47	2.405	31	-0.19	289.30	0
289	Acid Soluble Mo (30ppm)	0368	74.25	7.500	77.04	25.47	2.405	31	-0.11	289.34	0
289	Acid Soluble Mo (30ppm)	0547	76.90	1.400	77.04	25.47	2.405	31	-0.01	289.34	0
289	Acid Soluble Mo (30ppm)	0433	77.50	5.000	77.04	25.47	2.405	31	0.02	289.30	0
289	Acid Soluble Mo (30ppm)	0423	78.18	1.860	77.04	25.47	2.405	31	0.04	289.33	0
289	Acid Soluble Mo (30ppm)	0220	79.50	1.000	77.04	25.47	2.405	31	0.10	289.99	0
289	Acid Soluble Mo (30ppm)	0452	80.47	1.630	77.04	25.47	2.405	31	0.13	289.30	0
289	Acid Soluble Mo (30ppm)	0255	81.97	0.1800	77.04	25.47	2.405	31	0.19	289.30	0
289	Acid Soluble Mo (30ppm)	0291	87.04	0.9900	77.04	25.47	2.405	31	0.39	289.34	0
289	Acid Soluble Mo (30ppm)	0542	90.50	1.000	77.04	25.47	2.405	31	0.53	289.33	0
289	Acid Soluble Mo (30ppm)	0136	93.05	0.1000	77.04	25.47	2.405	31	0.63	289.33	0
289	Acid Soluble Mo (30ppm)	0515	97.63	1.830	77.04	25.47	2.405	31	0.81	289.33	0
289	Acid Soluble Mo (30ppm)	0037	99.59	0.1340	77.04	25.47	2.405	31	0.89	289.33	0
289	Acid Soluble Mo (30ppm)	0546	101.2‡	5.362	77.04	25.47	2.405	31	0.95	289.33	0
289	Acid Soluble Mo (30ppm)	0527	102.3‡	3.947	77.04	25.47	2.405	31	0.99	289.33	0
289	Acid Soluble Mo (30ppm)	0220	103.0‡	4.000	77.04	25.47	2.405	31	1.02	289.32	0
289	Acid Soluble Mo (30ppm)	0405	108.0‡	4.000	77.04	25.47	2.405	31	1.22	289.99	0
289	Acid Soluble Mo (30ppm)	0049	118.0‡	2.000	77.04	25.47	2.405	31	1.61	289.30	0
289	Acid Soluble Mo (30ppm)	0481	143.8‡	3.000	77.04	25.47	2.405	31	2.62	289.99	0
289	Acid Soluble Mo (30ppm)	0117	92.12	16.24	77.04	25.47	2.405	31	0.59	289.33	1
291	Acid Soluble Ni (ppm)	0558	85.85	0.2820	308.8	101.1	11.40	27	-2.20	291.99	0
291	Acid Soluble Ni (ppm)	0578	92.93	3.000	308.8	101.1	11.40	27	-2.13	291.99	0
291	Acid Soluble Ni (ppm)	0444	161.0	28.00	308.8	101.1	11.40	27	-1.46	291.30	0
291	Acid Soluble Ni (ppm)	0519	168.7	10.56	308.8	101.1	11.40	27	-1.38	291.99	0
291	Acid Soluble Ni (ppm)	0476	171.2	28.65	308.8	101.1	11.40	27	-1.36	291.32	0
291	Acid Soluble Ni (ppm)	0035	214.0	10.00	308.8	101.1	11.40	27	-0.94	291.30	0
291	Acid Soluble Ni (ppm)	0548	244.9	0.0700	308.8	101.1	11.40	27	-0.63	291.33	0
291	Acid Soluble Ni (ppm)	0515	284.7	1.458	308.8	101.1	11.40	27	-0.24	291.34	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				
291	Acid Soluble Ni (ppm)	0389	288.8	14.30	308.8	101.1	11.40	27	-0.20	291.30	0
291	Acid Soluble Ni (ppm)	0481	290.2	3.300	308.8	101.1	11.40	27	-0.18	291.99	0
291	Acid Soluble Ni (ppm)	0535	305.0	10.00	308.8	101.1	11.40	27	-0.04	291.99	0
291	Acid Soluble Ni (ppm)	0524	315.9	7.708	308.8	101.1	11.40	27	0.07	291.30	0
291	Acid Soluble Ni (ppm)	0220	316.5	13.00	308.8	101.1	11.40	27	0.08	291.99	0
291	Acid Soluble Ni (ppm)	0027	320.0	0.0000	308.8	101.1	11.40	27	0.11	291.30	0
291	Acid Soluble Ni (ppm)	0547	321.5	35.00	308.8	101.1	11.40	27	0.13	291.34	0
291	Acid Soluble Ni (ppm)	0563	343.4	19.15	308.8	101.1	11.40	27	0.34	291.33	0
291	Acid Soluble Ni (ppm)	0452	346.5	4.900	308.8	101.1	11.40	27	0.37	291.30	0
291	Acid Soluble Ni (ppm)	0136	347.5	7.000	308.8	101.1	11.40	27	0.38	291.33	0
291	Acid Soluble Ni (ppm)	0368	349.0	30.00	308.8	101.1	11.40	27	0.40	291.34	0
291	Acid Soluble Ni (ppm)	0405	359.0	14.00	308.8	101.1	11.40	27	0.50	291.99	0
291	Acid Soluble Ni (ppm)	0255	365.1	7.800	308.8	101.1	11.40	27	0.56	291.99	0
291	Acid Soluble Ni (ppm)	0042	396.0	14.90	308.8	101.1	11.40	27	0.86	291.99	0
291	Acid Soluble Ni (ppm)	0515	407.5	0.0710	308.8	101.1	11.40	27	0.98	291.33	0
291	Acid Soluble Ni (ppm)	0397	408.5	15.96	308.8	101.1	11.40	27	0.99	291.00	0
291	Acid Soluble Ni (ppm)	0037	409.9	12.94	308.8	101.1	11.40	27	1.00	291.33	0
291	Acid Soluble Ni (ppm)	0117	437.2	7.548	308.8	101.1	11.40	27	1.27	291.33	0
291	Acid Soluble Ni (ppm)	0527	450.5	8.120	308.8	101.1	11.40	27	1.40	291.33	0
301	Acid Soluble Se (ppm)	0519	0.0100	0.0000	4.702	3.184	0.5599	11	-1.47	301.99	0
301	Acid Soluble Se (ppm)	0515	1.078	0.5652	4.702	3.184	0.5599	11	-1.14	301.34	0
301	Acid Soluble Se (ppm)	0578	1.800	0.0960	4.702	3.184	0.5599	11	-0.91	301.99	0
301	Acid Soluble Se (ppm)	0043	4.190	0.9800	4.702	3.184	0.5599	11	-0.16	301.33	0
301	Acid Soluble Se (ppm)	0548	4.460	0.0200	4.702	3.184	0.5599	11	-0.08	301.33	0
301	Acid Soluble Se (ppm)	0481	5.560	0.4200	4.702	3.184	0.5599	11	0.27	301.99	0
301	Acid Soluble Se (ppm)	0524	5.817	0.6356	4.702	3.184	0.5599	11	0.35	301.30	0
301	Acid Soluble Se (ppm)	0405	6.000	0.0000	4.702	3.184	0.5599	11	0.41	301.99	0
301	Acid Soluble Se (ppm)	0368	6.050	2.900	4.702	3.184	0.5599	11	0.42	301.34	0
301	Acid Soluble Se (ppm)	0476	7.279	0.2780	4.702	3.184	0.5599	11	0.81	301.32	0
301	Acid Soluble Se (ppm)	0563	9.654	0.2645	4.702	3.184	0.5599	11	1.56	301.33	0
301	Acid Soluble Se (ppm)	0037	13.50	4.107	4.702	3.184	0.5599	11	2.76	301.33	1
301	Acid Soluble Se (ppm)	0255	0.0000	0.0000	4.702	3.184	0.5599	11		301.99	4
301	Acid Soluble Se (ppm)	0527	< 0.01		4.702	3.184	0.5599	11		301.33	5
301	Acid Soluble Se (ppm)	0547	< 10		4.702	3.184	0.5599	11		301.30	5
311	Sodium (%)	0553	0.2405	0.0190	0.8434	0.0681	0.0133	6	-7.89	311.00	0
311	Sodium (%)	0354	0.8200	0.0000	0.8434	0.0681	0.0133	6	-0.31	311.99	0
311	Sodium (%)	0260	0.8425	0.0050	0.8434	0.0681	0.0133	6	-0.01	311.33	0
311	Sodium (%)	0423	0.8586	0.0051	0.8434	0.0681	0.0133	6	0.20	311.33	0
311	Sodium (%)	0563	0.8813	0.0434	0.8434	0.0681	0.0133	6	0.50	311.33	0
311	Sodium (%)	0527	0.9167	0.0070	0.8434	0.0681	0.0133	6	0.96	311.33	0
321	Acid Soluble Zn (%)	0035	0.0007	0.0001	0.0050	0.0033	0.0010	43	-1.30	321.30	0
321	Acid Soluble Zn (%)	0515	0.0019	0.0001	0.0050	0.0033	0.0010	43	-0.94	321.99	0
321	Acid Soluble Zn (%)	0027	0.0020	0.0000	0.0050	0.0033	0.0010	43	-0.89	321.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321	Acid Soluble Zn (%)	0389	0.0021	0.0001	0.0050	0.0033	0.0010	43	-0.88	321.99	0
321	Acid Soluble Zn (%)	0451	0.0024	0.0003	0.0050	0.0033	0.0010	43	-0.79	321.30	0
321	Acid Soluble Zn (%)	0423	0.0025	0.0010	0.0050	0.0033	0.0010	43	-0.74	321.32	0
321	Acid Soluble Zn (%)	0368	0.0025	0.0006	0.0050	0.0033	0.0010	43	-0.74	321.99	0
321	Acid Soluble Zn (%)	0220	0.0026	0.0003	0.0050	0.0033	0.0010	43	-0.73	321.32	0
321	Acid Soluble Zn (%)	0405	0.0028	0.0003	0.0050	0.0033	0.0010	43	-0.67	321.99	0
321	Acid Soluble Zn (%)	0542	0.0030	0.0000	0.0050	0.0033	0.0010	43	-0.60	321.33	0
321	Acid Soluble Zn (%)	0481	0.0030	0.0000	0.0050	0.0033	0.0010	43	-0.60	321.99	0
321	Acid Soluble Zn (%)	0117	0.0032	0.0001	0.0050	0.0033	0.0010	43	-0.55	321.33	0
321	Acid Soluble Zn (%)	0524	0.0032	0.0001	0.0050	0.0033	0.0010	43	-0.55	321.99	0
321	Acid Soluble Zn (%)	0055	0.0033	0.0009	0.0050	0.0033	0.0010	43	-0.52	321.33	0
321	Acid Soluble Zn (%)	0558	0.0033	0.0001	0.0050	0.0033	0.0010	43	-0.52	321.99	0
321	Acid Soluble Zn (%)	0452	0.0034	0.0000	0.0050	0.0033	0.0010	43	-0.48	321.30	0
321	Acid Soluble Zn (%)	0029	0.0036	0.0003	0.0050	0.0033	0.0010	43	-0.43	321.00	0
321	Acid Soluble Zn (%)	0095	0.0036	0.0010	0.0050	0.0033	0.0010	43	-0.42	321.32	0
321	Acid Soluble Zn (%)	0551	0.0036	0.0002	0.0050	0.0033	0.0010	43	-0.42	321.99	0
321	Acid Soluble Zn (%)	0559	0.0036	0.0002	0.0050	0.0033	0.0010	43	-0.42	321.99	0
321	Acid Soluble Zn (%)	0422	0.0038	0.0000	0.0050	0.0033	0.0010	43	-0.36	321.30	0
321	Acid Soluble Zn (%)	0546	0.0039	0.0004	0.0050	0.0033	0.0010	43	-0.33	321.33	0
321	Acid Soluble Zn (%)	0485	0.0040	0.0001	0.0050	0.0033	0.0010	43	-0.31	321.00	0
321	Acid Soluble Zn (%)	0040	0.0040	0.0000	0.0050	0.0033	0.0010	43	-0.30	321.00	0
321	Acid Soluble Zn (%)	0553	0.0040	0.0000	0.0050	0.0033	0.0010	43	-0.30	321.00	0
321	Acid Soluble Zn (%)	0037	0.0040	0.0000	0.0050	0.0033	0.0010	43	-0.30	321.33	0
321	Acid Soluble Zn (%)	0136	0.0041	0.0003	0.0050	0.0033	0.0010	43	-0.28	321.33	0
321	Acid Soluble Zn (%)	0043	0.0045	0.0010	0.0050	0.0033	0.0010	43	-0.15	321.33	0
321	Acid Soluble Zn (%)	0547	0.0045	0.0010	0.0050	0.0033	0.0010	43	-0.15	321.99	0
321	Acid Soluble Zn (%)	0531	0.0053	0.0004	0.0050	0.0033	0.0010	43	0.09	321.00	0
321	Acid Soluble Zn (%)	0533	0.0053	0.0004	0.0050	0.0033	0.0010	43	0.09	321.00	0
321	Acid Soluble Zn (%)	0535	0.0055	0.0010	0.0050	0.0033	0.0010	43	0.15	321.00	0
321	Acid Soluble Zn (%)	0255	0.0065	0.0010	0.0050	0.0033	0.0010	43	0.45	321.30	0
321	Acid Soluble Zn (%)	0577	0.0095	0.0010	0.0050	0.0033	0.0010	43	1.35	321.00	0
321	Acid Soluble Zn (%)	0292	0.0100	0.0000	0.0050	0.0033	0.0010	43	1.50	321.30	0
321	Acid Soluble Zn (%)	0552	0.0100	0.0000	0.0050	0.0033	0.0010	43	1.50	321.30	0
321	Acid Soluble Zn (%)	0538	0.0105	0.0010	0.0050	0.0033	0.0010	43	1.65	321.00	0
321	Acid Soluble Zn (%)	0536	0.0108	0.0002	0.0050	0.0033	0.0010	43	1.74	321.00	0
321	Acid Soluble Zn (%)	0498	0.0260	0.0000	0.0050	0.0033	0.0010	43	6.28	321.02	0
321	Acid Soluble Zn (%)	0519	0.0450	0.0100	0.0050	0.0033	0.0010	43	11.97	321.99	0
321	Acid Soluble Zn (%)	0562	0.0890	0.0080	0.0050	0.0033	0.0010	43	25.13	321.99	0
321	Acid Soluble Zn (%)	0537	0.0950	0.0100	0.0050	0.0033	0.0010	43	26.92	321.99	0
321	Acid Soluble Zn (%)	0042	0.1100	0.0000	0.0050	0.0033	0.0010	43	31.41	321.99	0
321	Acid Soluble Zn (%)	0548	37.17	0.0400	0.0050	0.0033	0.0010	43	11115.88	321.33	2
321	Acid Soluble Zn (%)	0527	< 0.001		0.0050	0.0033	0.0010	43		321.33	5
321	Acid Soluble Zn (%)	0049	< 0.002		0.0050	0.0033	0.0010	43		321.20	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				
321	Acid Soluble Zn (%)	0324	< 0.01		0.0050	0.0033	0.0010	43		321.30	5
321	Acid Soluble Zn (%)	0354	< 0.01		0.0050	0.0033	0.0010	43		321.30	5
321	Acid Soluble Zn (%)	0587	< 0.02		0.0050	0.0033	0.0010	43		321.99	5
321	Acid Soluble Zn (%)	0580	< 0.05		0.0050	0.0033	0.0010	43		321.00	5
325	Water Soluble Zn (%)	0578	0.0013	0.0002				2		325.99	0
325	Water Soluble Zn (%)	0476	0.0020	0.0000				2		325.30	0
431	Soluble Si in nonliquids (1.9%)	0519	1.125	0.0500	1.937	0.7849	0.1768	6	-0.92	431.99	0
431	Soluble Si in nonliquids (1.9%)	0368	1.382	0.0611	1.937	0.7849	0.1768	6	-0.63	431.99	0
431	Soluble Si in nonliquids (1.9%)	0515	1.868	0.5196	1.937	0.7849	0.1768	6	-0.08	431.10	0
431	Soluble Si in nonliquids (1.9%)	0220	2.035	0.0500	1.937	0.7849	0.1768	6	0.11	431.10	0
431	Soluble Si in nonliquids (1.9%)	0136	2.100	0.0800	1.937	0.7849	0.1768	6	0.18	431.10	0
431	Soluble Si in nonliquids (1.9%)	0578	12.17	0.3000	1.937	0.7849	0.1768	6	11.61	431.99	0
431	Soluble Si in nonliquids (1.9%)	0548	18,836	1.530	1.937	0.7849	0.1768	6	21374.42	431.99	2

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.