

Analyte PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Analytes: 38

Sample # 230611

Regular PT Scheme

Labs Reporting: 77

Grade 15-6-12

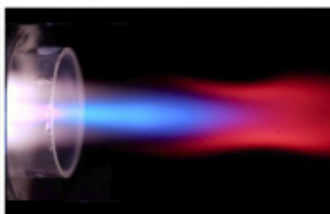
Statistical Summary

Issue Date : 07/31/2023

Analyte Code	Analyte Sample # 230611	# 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 (%)	26	25	8.471	0.1759	8.457		0.1842	0.0461	2.18%		0.1164	2.90%
002	Nitrate N (%)	19	19	6.727	0.4057	6.745		0.3195	0.0916	4.74%		0.0934	3.00%
005	Urea N (%)	2	2	8.263	11.17								
009	Ammoniacal Plus Nitrate N (%)	3	3	15.30	0.0000	15.30		0.0000	0.0000	0.00%		0.2000	2.56%
010	Total N (15%)	62	61	15.93	1.122	16.13	0.6719	0.3782	0.0605	2.35%	1.31	0.1316	2.49%
020	Total P2O5 (%)	43	42	6.391	0.3904	6.403		0.3653	0.0705	5.71%		0.1338	3.02%
030	Citrate Insoluble P2O5 (%)	1		0.0350									
041	Direct Available P2O5 (6%)	39	38	6.347	0.1895	6.349	0.6735	0.1897	0.0385	2.99%	0.66	0.0957	3.03%
048	Water Soluble P2O5 (%)	10	10	5.073	0.4853	5.042		0.3702	0.1463	7.34%		0.1209	3.14%
050	Soluble K2O (12%)	75	74	12.45	0.4596	12.43	0.8072	0.4563	0.0663	3.67%	1.32	0.1985	2.74%
060	Water (Free) (%)	2	2	0.6810	0.7155								
101	Acid Soluble Ca (%)	14	14	1.059	0.1113	1.078	0.2539	0.0765	0.0256	7.10%	0.70	0.0252	3.95%
121	Acid Soluble Mg (1.3%)	56	55	1.575	0.1720	1.573	0.2786	0.1073	0.0181	6.82%	0.90	0.0460	3.74%
131	Water Soluble Mg (%)	14	14	1.371	0.2869	1.395		0.2239	0.0748	16.05%		0.0492	3.80%
143	Elemental S (%)	5	5	5.639	3.156	5.639		3.156	1.764	55.97%		0.0495	3.08%
145	Sulfate S, HCl soluble (%)	6	6	6.726	0.3135	6.726		0.3555	0.1814	5.29%		0.2380	3.00%
148	Total S (6.3%)	47	46	7.015	0.6207	6.940	0.5470	0.4829	0.0890	6.96%	2.06	0.1292	2.99%
149	S - HNO3 soluble (%)	3	3	7.632	0.7677	7.632		0.7677	0.5540	10.06%		0.2392	2.95%
151	Acid Soluble As (ppm)	19	11	1.257	1.791	0.6723		0.1557	0.0587	23.15%		0.0478	16.98%
165	Acid Soluble B (%)	11	7	0.0036	0.0044	0.0017	0.0033	0.0010	0.0005	56.82%	0.71	0.0009	10.40%
171	Water Soluble B (%)	1		0.0109									
181	Acid Soluble Cd (ppm)	21	11	0.7003	0.7037	0.5177		0.1876	0.0707	36.24%		0.0710	17.66%
190	Water Soluble Cl (%)	1		0.3125									
191	Acid Soluble Cr (ppm)	24	23	14.71	6.533	14.56		5.612	1.463	38.55%		1.135	10.69%
202	Acid Soluble Co (ppm)	19	12	2.886	5.796	1.156	1.3468	0.3805	0.1373	32.91%	0.66	0.1784	15.65%
221	Acid Soluble Cu (0.08%)	60	58	0.0910	0.0978	0.0788	0.0129	0.0049	0.0008	6.27%	0.89	0.0023	5.86%
241	Acid Soluble Fe (0.32%)	62	61	0.3484	0.0435	0.3498	0.0400	0.0315	0.0050	9.00%	1.83	0.0120	4.68%
251	Acid Soluble Pb (ppm)	21	7	3.538	9.123	0.5522		0.3053	0.1442	55.28%		0.0780	17.49%
261	Acid Soluble Mn (0.13%)	59	58	0.1626	0.1697	0.1415	0.0192	0.0105	0.0017	7.45%	1.28	0.0065	5.37%

Analyte Code	Analyte Sample # 230611	# 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
271	Water Soluble Mn (%)	6	6	0.1165	0.0280	0.1165		0.0318	0.0162	27.29%		0.0036	5.53%
281	Acid Soluble Hg (ppm)	12	4	0.3299	0.6408	0.0222		0.0287	0.0180	129.69%		0.0056	22.00%
289	Acid Soluble Mo (110ppm)	35	35	127.2	18.66	126.8	39.0470	14.58	3.081	11.50%	0.87	7.708	7.72%
291	Acid Soluble Ni (ppm)	24	20	6.037	7.579	5.019		2.063	0.5767	41.10%		0.2379	12.55%
301	Acid Soluble Se (ppm)	15	7	1.823	3.112	0.6601		0.3440	0.1625	52.11%		0.0677	17.03%
311	Sodium (%)	9	9	0.2964	0.0142	0.2954	0.0345	0.0136	0.0057	4.62%	0.92	0.0075	4.81%
321	Acid Soluble Zn (%)	59	57	0.0967	0.0991	0.0827	0.0133	0.0085	0.0014	10.25%	1.49	0.0039	5.82%
325	Water Soluble Zn (%)	7	7	0.0615	0.0103	0.0614		0.0115	0.0054	18.68%		0.0047	6.09%
431	Soluble Si in nonliquids (%)	1		0.0066									

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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Analytes: 38

Sample # 230611

Regular PT Scheme

Labs Reporting: 77

Grade 15-6-12

Lab Values

Issue Date : 07/31/2023

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001	Ammoniacal N (%)	0559	8.165	0.0100	8.457	0.1842	0.1164	25	-1.58	001.99	0
001	Ammoniacal N (%)	0605	8.205	0.1100	8.457	0.1842	0.1164	25	-1.37	001.99	0
001	Ammoniacal N (%)	0584	8.230	0.1200	8.457	0.1842	0.1164	25	-1.23	001.99	0
001	Ammoniacal N (%)	0510	8.274	0.0147	8.457	0.1842	0.1164	25	-0.99	001.99	0
001	Ammoniacal N (%)	0389	8.295	0.0100	8.457	0.1842	0.1164	25	-0.88	001.10	0
001	Ammoniacal N (%)	0553	8.315	0.1700	8.457	0.1842	0.1164	25	-0.77	001.99	0
001	Ammoniacal N (%)	0220	8.340	0.2000	8.457	0.1842	0.1164	25	-0.63	001.99	0
001	Ammoniacal N (%)	0451	8.350	0.0600	8.457	0.1842	0.1164	25	-0.58	001.10	0
001	Ammoniacal N (%)	0562	8.375	0.0500	8.457	0.1842	0.1164	25	-0.44	001.99	0
001	Ammoniacal N (%)	0027	8.410	0.0400	8.457	0.1842	0.1164	25	-0.25	001.99	0
001	Ammoniacal N (%)	0444	8.450	0.1000	8.457	0.1842	0.1164	25	-0.04	001.10	0
001	Ammoniacal N (%)	0394	8.456	0.0530	8.457	0.1842	0.1164	25	-0.01	001.99	0
001	Ammoniacal N (%)	0619	8.470	0.0000	8.457	0.1842	0.1164	25	0.07	001.10	0
001	Ammoniacal N (%)	0619	8.470	0.0000	8.457	0.1842	0.1164	25	0.07	001.99	0
001	Ammoniacal N (%)	0572	8.475	0.3964	8.457	0.1842	0.1164	25	0.10	001.99	0
001	Ammoniacal N (%)	0609	8.490	0.0200	8.457	0.1842	0.1164	25	0.18	001.10	0
001	Ammoniacal N (%)	0587	8.515	0.0300	8.457	0.1842	0.1164	25	0.32	001.99	0
001	Ammoniacal N (%)	0524	8.520	0.2000	8.457	0.1842	0.1164	25	0.34	001.99	0
001	Ammoniacal N (%)	0368	8.535	0.4780	8.457	0.1842	0.1164	25	0.43	001.99	0
001	Ammoniacal N (%)	0405	8.565	0.1100	8.457	0.1842	0.1164	25	0.59	001.99	0
001	Ammoniacal N (%)	0626	8.625	0.2500	8.457	0.1842	0.1164	25	0.91	001.99	0
001	Ammoniacal N (%)	0498	8.700	0.0000	8.457	0.1842	0.1164	25	1.32	001.10	0
001	Ammoniacal N (%)	0513	8.705	0.0300	8.457	0.1842	0.1164	25	1.35	001.99	0
001	Ammoniacal N (%)	0423	8.745	0.4700	8.457	0.1842	0.1164	25	1.57	001.99	0
001	Ammoniacal N (%)	0580	8.775	0.1500	8.457	0.1842	0.1164	25	1.73	001.10	0
001	Ammoniacal N (%)	0255	8.780	0.7000	8.457	0.1842	0.1164	25	1.76	001.99	1
002	Nitrate N (%)	0220	5.590	0.2200	6.745	0.3195	0.0934	19	-3.62	002.99	0
002	Nitrate N (%)	0498	6.300	0.0000	6.745	0.3195	0.0934	19	-1.39	002.99	0
002	Nitrate N (%)	0605	6.390	0.2600	6.745	0.3195	0.0934	19	-1.11	002.99	0
002	Nitrate N (%)	0553	6.410	0.0600	6.745	0.3195	0.0934	19	-1.05	002.99	0
002	Nitrate N (%)	0368	6.432	0.0060	6.745	0.3195	0.0934	19	-0.98	002.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
002	Nitrate N (%)	0609	6.595	0.0300	6.745	0.3195	0.0934	19	-0.47	002.99	0
002	Nitrate N (%)	0029	6.670	0.0600	6.745	0.3195	0.0934	19	-0.24	002.99	0
002	Nitrate N (%)	0626	6.710	0.0200	6.745	0.3195	0.0934	19	-0.11	002.99	0
002	Nitrate N (%)	0584	6.735	0.2900	6.745	0.3195	0.0934	19	-0.03	002.99	0
002	Nitrate N (%)	0513	6.795	0.0500	6.745	0.3195	0.0934	19	0.16	002.99	0
002	Nitrate N (%)	0444	6.850	0.1000	6.745	0.3195	0.0934	19	0.33	002.99	0
002	Nitrate N (%)	0518	6.850	0.1000	6.745	0.3195	0.0934	19	0.33	002.99	0
002	Nitrate N (%)	0423	6.910	0.0800	6.745	0.3195	0.0934	19	0.52	002.99	0
002	Nitrate N (%)	0394	6.919	0.1050	6.745	0.3195	0.0934	19	0.54	002.99	0
002	Nitrate N (%)	0027	6.975	0.0300	6.745	0.3195	0.0934	19	0.72	002.99	0
002	Nitrate N (%)	0580	6.990	0.0000	6.745	0.3195	0.0934	19	0.77	002.99	0
002	Nitrate N (%)	0562	7.065	0.0100	6.745	0.3195	0.0934	19	1.00	002.99	0
002	Nitrate N (%)	0559	7.075	0.0100	6.745	0.3195	0.0934	19	1.03	002.99	0
002	Nitrate N (%)	0029	7.560	0.2300	6.745	0.3195	0.0934	19	2.55	002.20	0
005	Urea N (%)	0524	0.3650	0.0500				2		005.99	0
005	Urea N (%)	0389	16.16	0.2400				2		005.00	0
009	Ammoniacal Plus Nitrate N (%)	0444	15.30	0.2000	15.30	0.0000	0.2000	3	0.00	009.10	0
009	Ammoniacal Plus Nitrate N (%)	0619	15.30	0.0000	15.30	0.0000	0.2000	3	0.00	009.10	0
009	Ammoniacal Plus Nitrate N (%)	0619	15.30	0.0000	15.30	0.0000	0.2000	3	0.00	009.99	0
010	Total N (15%)	0220	12.38†	0.0500	16.13	0.3782	0.1316	61	-9.92	010.99	0
010	Total N (15%)	0605	14.60†	0.3700	16.13	0.3782	0.1316	61	-4.05	010.99	0
010	Total N (15%)	0510	14.81†	0.6066	16.13	0.3782	0.1316	61	-3.49	010.11	0
010	Total N (15%)	0498	15.15†	0.3000	16.13	0.3782	0.1316	61	-2.58	010.12	0
010	Total N (15%)	0394	15.37†	0.1580	16.13	0.3782	0.1316	61	-1.99	010.99	0
010	Total N (15%)	0626	15.42†	0.1800	16.13	0.3782	0.1316	61	-1.87	010.60	0
010	Total N (15%)	0562	15.47	0.1000	16.13	0.3782	0.1316	61	-1.74	010.99	0
010	Total N (15%)	0513	15.51	0.0300	16.13	0.3782	0.1316	61	-1.64	010.99	0
010	Total N (15%)	0559	15.53	0.0100	16.13	0.3782	0.1316	61	-1.59	010.99	0
010	Total N (15%)	0423	15.69	0.1900	16.13	0.3782	0.1316	61	-1.17	010.60	0
010	Total N (15%)	0234	15.72	0.0200	16.13	0.3782	0.1316	61	-1.07	010.60	0
010	Total N (15%)	0524	15.74	0.1852	16.13	0.3782	0.1316	61	-1.03	010.99	0
010	Total N (15%)	0527	15.80	0.2390	16.13	0.3782	0.1316	61	-0.86	010.60	0
010	Total N (15%)	0612	15.84	0.0600	16.13	0.3782	0.1316	61	-0.76	010.60	0
010	Total N (15%)	0055	15.85	0.1600	16.13	0.3782	0.1316	61	-0.73	010.60	0
010	Total N (15%)	0543	15.86	0.4700	16.13	0.3782	0.1316	61	-0.72	010.60	0
010	Total N (15%)	0452	15.88	0.1200	16.13	0.3782	0.1316	61	-0.65	010.60	0
010	Total N (15%)	0472	15.98	0.0500	16.13	0.3782	0.1316	61	-0.40	010.60	0
010	Total N (15%)	0037	15.98	0.5330	16.13	0.3782	0.1316	61	-0.38	010.60	0
010	Total N (15%)	0624	16.02	0.1280	16.13	0.3782	0.1316	61	-0.27	010.60	0
010	Total N (15%)	0027	16.04	0.2500	16.13	0.3782	0.1316	61	-0.24	010.60	0
010	Total N (15%)	0035	16.05	0.1000	16.13	0.3782	0.1316	61	-0.20	010.60	0
010	Total N (15%)	0356	16.07	0.1310	16.13	0.3782	0.1316	61	-0.15	010.60	0
010	Total N (15%)	0106	16.09	0.0000	16.13	0.3782	0.1316	61	-0.10	010.60	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010	Total N (15%)	0255	16.09	0.3980	16.13	0.3782	0.1316	61	-0.09	010.60	0
010	Total N (15%)	0136	16.15	0.1000	16.13	0.3782	0.1316	61	0.06	010.60	0
010	Total N (15%)	0034	16.17	0.0200	16.13	0.3782	0.1316	61	0.12	010.60	0
010	Total N (15%)	0086	16.19	0.0880	16.13	0.3782	0.1316	61	0.17	010.60	0
010	Total N (15%)	0073	16.20	0.2200	16.13	0.3782	0.1316	61	0.19	010.60	0
010	Total N (15%)	0324	16.20	0.0000	16.13	0.3782	0.1316	61	0.19	010.60	0
010	Total N (15%)	0521	16.20	0.0000	16.13	0.3782	0.1316	61	0.19	010.99	0
010	Total N (15%)	0042	16.20	0.2000	16.13	0.3782	0.1316	61	0.19	010.60	0
010	Total N (15%)	0451	16.22	0.0700	16.13	0.3782	0.1316	61	0.23	010.60	0
010	Total N (15%)	0421	16.23	0.3700	16.13	0.3782	0.1316	61	0.26	010.60	0
010	Total N (15%)	0292	16.25	0.0200	16.13	0.3782	0.1316	61	0.33	010.60	0
010	Total N (15%)	0351	16.25	0.1000	16.13	0.3782	0.1316	61	0.33	010.60	0
010	Total N (15%)	0405	16.26	0.1000	16.13	0.3782	0.1316	61	0.35	010.60	0
010	Total N (15%)	0043	16.28	0.0800	16.13	0.3782	0.1316	61	0.41	010.60	0
010	Total N (15%)	0360	16.28	0.0400	16.13	0.3782	0.1316	61	0.41	010.60	0
010	Total N (15%)	0523	16.30	0.1440	16.13	0.3782	0.1316	61	0.45	010.60	0
010	Total N (15%)	0095	16.31	0.0500	16.13	0.3782	0.1316	61	0.47	010.60	0
010	Total N (15%)	0233	16.31	0.0200	16.13	0.3782	0.1316	61	0.49	010.60	0
010	Total N (15%)	0177	16.32	0.0050	16.13	0.3782	0.1316	61	0.51	010.60	0
010	Total N (15%)	0291	16.33	0.0100	16.13	0.3782	0.1316	61	0.53	010.60	0
010	Total N (15%)	0231	16.34	0.0800	16.13	0.3782	0.1316	61	0.56	010.60	0
010	Total N (15%)	0587	16.35	0.0800	16.13	0.3782	0.1316	61	0.59	010.60	0
010	Total N (15%)	0040	16.40	0.2000	16.13	0.3782	0.1316	61	0.72	010.60	0
010	Total N (15%)	0354	16.40	0.0000	16.13	0.3782	0.1316	61	0.72	010.60	0
010	Total N (15%)	0025	16.41	0.1300	16.13	0.3782	0.1316	61	0.74	010.60	0
010	Total N (15%)	0542	16.44	0.1350	16.13	0.3782	0.1316	61	0.82	010.60	0
010	Total N (15%)	0368	16.45	0.0070	16.13	0.3782	0.1316	61	0.85	010.60	0
010	Total N (15%)	0534	16.45	0.1000	16.13	0.3782	0.1316	61	0.86	010.60	0
010	Total N (15%)	0580	16.47	0.1100	16.13	0.3782	0.1316	61	0.90	010.12	0
010	Total N (15%)	0029	16.50	0.0900	16.13	0.3782	0.1316	61	0.97	010.60	0
010	Total N (15%)	0049	16.51	0.5500	16.13	0.3782	0.1316	61	1.00	010.60	0
010	Total N (15%)	0377	16.51	0.1300	16.13	0.3782	0.1316	61	1.00	010.60	0
010	Total N (15%)	0422	16.53	0.0300	16.13	0.3782	0.1316	61	1.05	010.60	0
010	Total N (15%)	0572	16.56	0.5228	16.13	0.3782	0.1316	61	1.15	010.12	0
010	Total N (15%)	0023	16.88±	0.0090	16.13	0.3782	0.1316	61	1.99	010.60	0
010	Total N (15%)	0485	16.97±	0.1600	16.13	0.3782	0.1316	61	2.23	010.60	0
010	Total N (15%)	0307	17.10±	0.2000	16.13	0.3782	0.1316	61	2.57	010.60	0
010	Total N (15%)	0588	8.860±	14.48	16.13	0.3782	0.1316	61	-19.21	010.60	1
020	Total P2O5 (%)	0389	5.560	0.0600	6.403	0.3653	0.1338	42	-2.31	020.50	0
020	Total P2O5 (%)	0444	5.850	0.1000	6.403	0.3653	0.1338	42	-1.51	020.50	0
020	Total P2O5 (%)	0619	5.860	0.0000	6.403	0.3653	0.1338	42	-1.49	020.50	0
020	Total P2O5 (%)	0510	5.868	0.2686	6.403	0.3653	0.1338	42	-1.46	020.20	0
020	Total P2O5 (%)	0612	5.925	0.5100	6.403	0.3653	0.1338	42	-1.31	020.50	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
020	Total P2O5 (%)	0619	5.950	0.0200	6.403	0.3653	0.1338	42	-1.24	020.10	0
020	Total P2O5 (%)	0619	5.950	0.0200	6.403	0.3653	0.1338	42	-1.24	020.99	0
020	Total P2O5 (%)	0255	6.048	0.0740	6.403	0.3653	0.1338	42	-0.97	020.50	0
020	Total P2O5 (%)	0527	6.106	0.0589	6.403	0.3653	0.1338	42	-0.81	020.50	0
020	Total P2O5 (%)	0423	6.154	0.0280	6.403	0.3653	0.1338	42	-0.68	020.50	0
020	Total P2O5 (%)	0472	6.225	0.0300	6.403	0.3653	0.1338	42	-0.49	020.50	0
020	Total P2O5 (%)	0562	6.225	0.0500	6.403	0.3653	0.1338	42	-0.49	020.99	0
020	Total P2O5 (%)	0307	6.250	0.1800	6.403	0.3653	0.1338	42	-0.42	020.50	0
020	Total P2O5 (%)	0587	6.255	0.1300	6.403	0.3653	0.1338	42	-0.40	020.99	0
020	Total P2O5 (%)	0559	6.260	0.0200	6.403	0.3653	0.1338	42	-0.39	020.99	0
020	Total P2O5 (%)	0543	6.295	0.3620	6.403	0.3653	0.1338	42	-0.29	020.50	0
020	Total P2O5 (%)	0451	6.338	0.0110	6.403	0.3653	0.1338	42	-0.18	020.50	0
020	Total P2O5 (%)	0498	6.400	0.4000	6.403	0.3653	0.1338	42	-0.01	020.20	0
020	Total P2O5 (%)	0513	6.405	0.0900	6.403	0.3653	0.1338	42	0.01	020.99	0
020	Total P2O5 (%)	0035	6.410	0.0600	6.403	0.3653	0.1338	42	0.02	020.40	0
020	Total P2O5 (%)	0572	6.444	0.0797	6.403	0.3653	0.1338	42	0.11	020.99	0
020	Total P2O5 (%)	0515	6.453	0.6250	6.403	0.3653	0.1338	42	0.14	020.99	0
020	Total P2O5 (%)	0542	6.478	0.1020	6.403	0.3653	0.1338	42	0.21	020.50	0
020	Total P2O5 (%)	0356	6.486	0.4080	6.403	0.3653	0.1338	42	0.23	020.20	0
020	Total P2O5 (%)	0157	6.490	0.1000	6.403	0.3653	0.1338	42	0.24	020.10	0
020	Total P2O5 (%)	0291	6.495	0.0100	6.403	0.3653	0.1338	42	0.25	020.50	0
020	Total P2O5 (%)	0368	6.505	0.0398	6.403	0.3653	0.1338	42	0.28	020.50	0
020	Total P2O5 (%)	0524	6.509	0.1404	6.403	0.3653	0.1338	42	0.29	020.50	0
020	Total P2O5 (%)	0394	6.519	0.0420	6.403	0.3653	0.1338	42	0.32	020.20	0
020	Total P2O5 (%)	0231	6.535	0.0700	6.403	0.3653	0.1338	42	0.36	020.20	0
020	Total P2O5 (%)	0609	6.585	0.0300	6.403	0.3653	0.1338	42	0.50	020.20	0
020	Total P2O5 (%)	0588	6.590	0.1600	6.403	0.3653	0.1338	42	0.51	020.50	0
020	Total P2O5 (%)	0444	6.600	0.4000	6.403	0.3653	0.1338	42	0.54	020.10	0
020	Total P2O5 (%)	0405	6.670	0.1200	6.403	0.3653	0.1338	42	0.73	020.20	0
020	Total P2O5 (%)	0292	6.750	0.0200	6.403	0.3653	0.1338	42	0.95	020.20	0
020	Total P2O5 (%)	0234	6.770	0.0200	6.403	0.3653	0.1338	42	1.01	020.50	0
020	Total P2O5 (%)	0042	6.800	0.4000	6.403	0.3653	0.1338	42	1.09	020.50	0
020	Total P2O5 (%)	0433	6.875	0.1300	6.403	0.3653	0.1338	42	1.29	020.50	0
020	Total P2O5 (%)	0324	6.895	0.8300	6.403	0.3653	0.1338	42	1.35	020.20	0
020	Total P2O5 (%)	0626	6.925	0.0500	6.403	0.3653	0.1338	42	1.43	020.40	0
020	Total P2O5 (%)	0580	6.990	0.0200	6.403	0.3653	0.1338	42	1.61	020.20	0
020	Total P2O5 (%)	0523	7.550	0.5000	6.403	0.3653	0.1338	42	3.14	020.50	0
020	Total P2O5 (%)	0552	5.580	1.060	6.403	0.3653	0.1338	42	-2.25	020.50	1
030	Citrate Insoluble P2O5 (%)	0405	0.0350	0.0100				1		030.20	0
041	Direct Available P2O5 (6%)	0049	5.905	0.1100	6.349	0.1897	0.0957	38	-2.34	041.11	0
041	Direct Available P2O5 (6%)	0553	6.015	0.2500	6.349	0.1897	0.0957	38	-1.76	041.20	0
041	Direct Available P2O5 (6%)	0351	6.050	0.1000	6.349	0.1897	0.0957	38	-1.58	041.11	0
041	Direct Available P2O5 (6%)	0177	6.094	0.0623	6.349	0.1897	0.0957	38	-1.35	041.21	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
041	Direct Available P2O5 (6%)	0136	6.110	0.1400	6.349	0.1897	0.0957	38	-1.26	041.51	0
041	Direct Available P2O5 (6%)	0609	6.120	0.1800	6.349	0.1897	0.0957	38	-1.21	041.21	0
041	Direct Available P2O5 (6%)	0472	6.175	0.0100	6.349	0.1897	0.0957	38	-0.92	041.21	0
041	Direct Available P2O5 (6%)	0423	6.179	0.1400	6.349	0.1897	0.0957	38	-0.90	041.51	0
041	Direct Available P2O5 (6%)	0220	6.195	0.0100	6.349	0.1897	0.0957	38	-0.81	041.11	0
041	Direct Available P2O5 (6%)	0095	6.195	0.1700	6.349	0.1897	0.0957	38	-0.81	041.21	0
041	Direct Available P2O5 (6%)	0513	6.255	0.0500	6.349	0.1897	0.0957	38	-0.50	041.11	0
041	Direct Available P2O5 (6%)	0584	6.270	0.0600	6.349	0.1897	0.0957	38	-0.42	041.99	0
041	Direct Available P2O5 (6%)	0086	6.282	0.1277	6.349	0.1897	0.0957	38	-0.35	041.10	0
041	Direct Available P2O5 (6%)	0027	6.285	0.1700	6.349	0.1897	0.0957	38	-0.34	041.20	0
041	Direct Available P2O5 (6%)	0233	6.315	0.0960	6.349	0.1897	0.0957	38	-0.18	041.51	0
041	Direct Available P2O5 (6%)	0377	6.320	0.3200	6.349	0.1897	0.0957	38	-0.15	041.51	0
041	Direct Available P2O5 (6%)	0055	6.325	0.4900	6.349	0.1897	0.0957	38	-0.13	041.21	0
041	Direct Available P2O5 (6%)	0605	6.350	0.2000	6.349	0.1897	0.0957	38	0.00	041.50	0
041	Direct Available P2O5 (6%)	0055	6.360	0.1200	6.349	0.1897	0.0957	38	0.06	041.11	0
041	Direct Available P2O5 (6%)	0405	6.375	0.0500	6.349	0.1897	0.0957	38	0.14	041.11	0
041	Direct Available P2O5 (6%)	0394	6.404	0.0400	6.349	0.1897	0.0957	38	0.29	041.21	0
041	Direct Available P2O5 (6%)	0452	6.410	0.0600	6.349	0.1897	0.0957	38	0.32	041.20	0
041	Direct Available P2O5 (6%)	0025	6.415	0.0500	6.349	0.1897	0.0957	38	0.35	041.51	0
041	Direct Available P2O5 (6%)	0043	6.420	0.0200	6.349	0.1897	0.0957	38	0.37	041.51	0
041	Direct Available P2O5 (6%)	0073	6.425	0.0300	6.349	0.1897	0.0957	38	0.40	041.11	0
041	Direct Available P2O5 (6%)	0029	6.428	0.0310	6.349	0.1897	0.0957	38	0.41	041.40	0
041	Direct Available P2O5 (6%)	0177	6.438	0.0101	6.349	0.1897	0.0957	38	0.47	041.10	0
041	Direct Available P2O5 (6%)	0518	6.450	0.5000	6.349	0.1897	0.0957	38	0.53	041.99	0
041	Direct Available P2O5 (6%)	0485	6.465	0.1500	6.349	0.1897	0.0957	38	0.61	041.11	0
041	Direct Available P2O5 (6%)	0023	6.482	0.0770	6.349	0.1897	0.0957	38	0.70	041.51	0
041	Direct Available P2O5 (6%)	0117	6.499	0.0319	6.349	0.1897	0.0957	38	0.79	041.51	0
041	Direct Available P2O5 (6%)	0040	6.500	0.0000	6.349	0.1897	0.0957	38	0.80	041.51	0
041	Direct Available P2O5 (6%)	0360	6.500	0.0600	6.349	0.1897	0.0957	38	0.80	041.51	0
041	Direct Available P2O5 (6%)	0037	6.532	0.0520	6.349	0.1897	0.0957	38	0.96	041.50	0
041	Direct Available P2O5 (6%)	0572	6.599	0.1396	6.349	0.1897	0.0957	38	1.32	041.99	0
041	Direct Available P2O5 (6%)	0405	6.635	0.1300	6.349	0.1897	0.0957	38	1.51	041.99	0
041	Direct Available P2O5 (6%)	0421	6.715	0.0100	6.349	0.1897	0.0957	38	1.93	041.50	0
041	Direct Available P2O5 (6%)	0354	6.785	0.0100	6.349	0.1897	0.0957	38	2.30	041.21	0
041	Direct Available P2O5 (6%)	0624	6.245	0.6940	6.349	0.1897	0.0957	38	-0.55	041.50	1
048	Water Soluble P2O5 (%)	0619	4.265	0.0900	5.042	0.3702	0.1209	10	-1.95	048.50	0
048	Water Soluble P2O5 (%)	0619	4.740	0.2400	5.042	0.3702	0.1209	10	-0.76	048.10	0
048	Water Soluble P2O5 (%)	0619	4.860	0.0000	5.042	0.3702	0.1209	10	-0.46	048.99	0
048	Water Soluble P2O5 (%)	0472	4.900	0.0200	5.042	0.3702	0.1209	10	-0.36	048.20	0
048	Water Soluble P2O5 (%)	0626	4.990	0.0400	5.042	0.3702	0.1209	10	-0.13	048.40	0
048	Water Soluble P2O5 (%)	0513	5.070	0.0000	5.042	0.3702	0.1209	10	0.07	048.99	0
048	Water Soluble P2O5 (%)	0394	5.076	0.0250	5.042	0.3702	0.1209	10	0.08	048.20	0
048	Water Soluble P2O5 (%)	0444	5.300	0.2000	5.042	0.3702	0.1209	10	0.65	048.50	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
048	Water Soluble P2O5 (%)	0444	5.400	0.4000	5.042	0.3702	0.1209	10	0.90	048.10	0
048	Water Soluble P2O5 (%)	0572	6.129	0.0348	5.042	0.3702	0.1209	10	2.73	048.99	0
050	Soluble K2O (12%)	0451	11.55†	0.0700	12.43	0.4563	0.1985	74	-1.94	050.99	0
050	Soluble K2O (12%)	0580	11.66	0.6000	12.43	0.4563	0.1985	74	-1.69	050.30	0
050	Soluble K2O (12%)	0049	11.70	0.2400	12.43	0.4563	0.1985	74	-1.60	050.00	0
050	Soluble K2O (12%)	0307	11.75	0.1000	12.43	0.4563	0.1985	74	-1.49	050.99	0
050	Soluble K2O (12%)	0605	11.79	0.0700	12.43	0.4563	0.1985	74	-1.42	050.99	0
050	Soluble K2O (12%)	0619	11.80	0.2000	12.43	0.4563	0.1985	74	-1.38	050.50	0
050	Soluble K2O (12%)	0423	11.85	0.1390	12.43	0.4563	0.1985	74	-1.26	050.52	0
050	Soluble K2O (12%)	0106	11.88	0.2500	12.43	0.4563	0.1985	74	-1.22	050.50	0
050	Soluble K2O (12%)	0255	11.90	0.1720	12.43	0.4563	0.1985	74	-1.17	050.99	0
050	Soluble K2O (12%)	0552	11.92	0.0800	12.43	0.4563	0.1985	74	-1.12	050.99	0
050	Soluble K2O (12%)	0177	11.94	0.0791	12.43	0.4563	0.1985	74	-1.08	050.99	0
050	Soluble K2O (12%)	0510	11.98	0.0131	12.43	0.4563	0.1985	74	-1.00	050.60	0
050	Soluble K2O (12%)	0394	11.99	0.0420	12.43	0.4563	0.1985	74	-0.97	050.99	0
050	Soluble K2O (12%)	0563	12.00	0.0000	12.43	0.4563	0.1985	74	-0.94	050.99	0
050	Soluble K2O (12%)	0040	12.05	0.5000	12.43	0.4563	0.1985	74	-0.84	050.30	0
050	Soluble K2O (12%)	0433	12.07	0.4100	12.43	0.4563	0.1985	74	-0.80	050.99	0
050	Soluble K2O (12%)	0472	12.13	0.0700	12.43	0.4563	0.1985	74	-0.67	050.32	0
050	Soluble K2O (12%)	0405	12.13	0.0000	12.43	0.4563	0.1985	74	-0.66	050.00	0
050	Soluble K2O (12%)	0444	12.15	0.1000	12.43	0.4563	0.1985	74	-0.62	050.00	0
050	Soluble K2O (12%)	0444	12.20	0.2000	12.43	0.4563	0.1985	74	-0.51	050.50	0
050	Soluble K2O (12%)	0534	12.20	0.2000	12.43	0.4563	0.1985	74	-0.51	050.99	0
050	Soluble K2O (12%)	0562	12.21	0.0900	12.43	0.4563	0.1985	74	-0.50	050.99	0
050	Soluble K2O (12%)	0023	12.21	0.0470	12.43	0.4563	0.1985	74	-0.48	050.52	0
050	Soluble K2O (12%)	0584	12.24	0.0700	12.43	0.4563	0.1985	74	-0.43	050.99	0
050	Soluble K2O (12%)	0035	12.25	0.2500	12.43	0.4563	0.1985	74	-0.41	050.61	0
050	Soluble K2O (12%)	0233	12.25	0.1700	12.43	0.4563	0.1985	74	-0.41	050.52	0
050	Soluble K2O (12%)	0025	12.25	0.3000	12.43	0.4563	0.1985	74	-0.40	050.52	0
050	Soluble K2O (12%)	0485	12.25	0.9000	12.43	0.4563	0.1985	74	-0.40	050.52	0
050	Soluble K2O (12%)	0559	12.27	0.0100	12.43	0.4563	0.1985	74	-0.36	050.99	0
050	Soluble K2O (12%)	0609	12.30	0.0100	12.43	0.4563	0.1985	74	-0.30	050.60	0
050	Soluble K2O (12%)	0527	12.31	0.3670	12.43	0.4563	0.1985	74	-0.27	050.99	0
050	Soluble K2O (12%)	0626	12.37	0.1000	12.43	0.4563	0.1985	74	-0.13	050.99	0
050	Soluble K2O (12%)	0553	12.38	0.1300	12.43	0.4563	0.1985	74	-0.12	050.99	0
050	Soluble K2O (12%)	0117	12.39	0.4039	12.43	0.4563	0.1985	74	-0.09	050.52	0
050	Soluble K2O (12%)	0624	12.39	0.2520	12.43	0.4563	0.1985	74	-0.08	050.99	0
050	Soluble K2O (12%)	0027	12.40	0.5700	12.43	0.4563	0.1985	74	-0.08	050.99	0
050	Soluble K2O (12%)	0324	12.40	0.4000	12.43	0.4563	0.1985	74	-0.07	050.50	0
050	Soluble K2O (12%)	0029	12.43	0.0200	12.43	0.4563	0.1985	74	0.00	050.62	0
050	Soluble K2O (12%)	0513	12.45	0.0700	12.43	0.4563	0.1985	74	0.03	050.99	0
050	Soluble K2O (12%)	0619	12.45	0.3000	12.43	0.4563	0.1985	74	0.04	050.00	0
050	Soluble K2O (12%)	0498	12.45	0.3000	12.43	0.4563	0.1985	74	0.04	050.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
050	Soluble K2O (12%)	0588	12.45	0.0600	12.43	0.4563	0.1985	74	0.04	050.99	0
050	Soluble K2O (12%)	0619	12.45	0.3000	12.43	0.4563	0.1985	74	0.04	050.99	0
050	Soluble K2O (12%)	0055	12.46	0.0800	12.43	0.4563	0.1985	74	0.06	050.00	0
050	Soluble K2O (12%)	0612	12.55	0.6500	12.43	0.4563	0.1985	74	0.25	050.99	0
050	Soluble K2O (12%)	0354	12.55	0.1000	12.43	0.4563	0.1985	74	0.26	050.52	0
050	Soluble K2O (12%)	0543	12.56	0.5250	12.43	0.4563	0.1985	74	0.28	050.52	0
050	Soluble K2O (12%)	0515	12.56	0.3600	12.43	0.4563	0.1985	74	0.28	050.99	0
050	Soluble K2O (12%)	0368	12.58	0.4829	12.43	0.4563	0.1985	74	0.32	050.51	0
050	Soluble K2O (12%)	0377	12.61	0.5000	12.43	0.4563	0.1985	74	0.39	050.52	0
050	Soluble K2O (12%)	0291	12.62	0.0200	12.43	0.4563	0.1985	74	0.41	050.51	0
050	Soluble K2O (12%)	0043	12.64	0.1500	12.43	0.4563	0.1985	74	0.45	050.52	0
050	Soluble K2O (12%)	0587	12.65	0.1900	12.43	0.4563	0.1985	74	0.47	050.99	0
050	Soluble K2O (12%)	0356	12.66	0.1110	12.43	0.4563	0.1985	74	0.50	050.30	0
050	Soluble K2O (12%)	0037	12.68	0.2700	12.43	0.4563	0.1985	74	0.53	050.51	0
050	Soluble K2O (12%)	0389	12.74	0.0100	12.43	0.4563	0.1985	74	0.67	050.99	0
050	Soluble K2O (12%)	0452	12.76	0.1000	12.43	0.4563	0.1985	74	0.72	050.51	0
050	Soluble K2O (12%)	0360	12.77	0.0800	12.43	0.4563	0.1985	74	0.74	050.52	0
050	Soluble K2O (12%)	0521	12.82	0.0000	12.43	0.4563	0.1985	74	0.85	050.50	0
050	Soluble K2O (12%)	0518	12.85	0.7000	12.43	0.4563	0.1985	74	0.92	050.99	0
050	Soluble K2O (12%)	0095	12.88	0.2600	12.43	0.4563	0.1985	74	0.98	050.62	0
050	Soluble K2O (12%)	0421	12.90	0.0000	12.43	0.4563	0.1985	74	1.03	050.99	0
050	Soluble K2O (12%)	0042	12.95	0.1000	12.43	0.4563	0.1985	74	1.14	050.99	0
050	Soluble K2O (12%)	0234	12.97	0.0200	12.43	0.4563	0.1985	74	1.18	050.99	0
050	Soluble K2O (12%)	0513	12.99	0.0500	12.43	0.4563	0.1985	74	1.21	050.62	0
050	Soluble K2O (12%)	0055	13.01	0.1300	12.43	0.4563	0.1985	74	1.26	050.50	0
050	Soluble K2O (12%)	0220	13.02	0.0200	12.43	0.4563	0.1985	74	1.29	050.00	0
050	Soluble K2O (12%)	0136	13.02	0.0400	12.43	0.4563	0.1985	74	1.29	050.52	0
050	Soluble K2O (12%)	0231	13.18	0.2400	12.43	0.4563	0.1985	74	1.64	050.50	0
050	Soluble K2O (12%)	0524	13.30‡	0.2840	12.43	0.4563	0.1985	74	1.90	050.99	0
050	Soluble K2O (12%)	0292	13.37‡	0.0100	12.43	0.4563	0.1985	74	2.05	050.50	0
050	Soluble K2O (12%)	0073	13.51‡	1.070	12.43	0.4563	0.1985	74	2.35	050.30	0
050	Soluble K2O (12%)	0542	13.52‡	0.0480	12.43	0.4563	0.1985	74	2.38	050.99	0
050	Soluble K2O (12%)	0572	13.71‡	0.5527	12.43	0.4563	0.1985	74	2.80	050.99	0
050	Soluble K2O (12%)	0523	12.45	1.700	12.43	0.4563	0.1985	74	0.04	050.99	1
060	Water (Free) (%)	0513	0.1750	0.0100				2		060.00	0
060	Water (Free) (%)	0510	1.187	0.1368				2		060.99	0
101	Acid Soluble Ca (%)	0527	0.7917	0.0004	1.078	0.0765	0.0252	14	-3.75	101.33	0
101	Acid Soluble Ca (%)	0423	0.8590	0.0040	1.078	0.0765	0.0252	14	-2.87	101.32	0
101	Acid Soluble Ca (%)	0553	1.010	0.0200	1.078	0.0765	0.0252	14	-0.89	101.00	0
101	Acid Soluble Ca (%)	0095	1.055	0.0100	1.078	0.0765	0.0252	14	-0.30	101.32	0
101	Acid Soluble Ca (%)	0472	1.055	0.0100	1.078	0.0765	0.0252	14	-0.30	101.33	0
101	Acid Soluble Ca (%)	0572	1.070	0.0185	1.078	0.0765	0.0252	14	-0.11	101.99	0
101	Acid Soluble Ca (%)	0421	1.083	0.0220	1.078	0.0765	0.0252	14	0.06	101.33	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
101	Acid Soluble Ca (%)	0609	1.085	0.0100	1.078	0.0765	0.0252	14	0.09	101.33	0
101	Acid Soluble Ca (%)	0542	1.097	0.0120	1.078	0.0765	0.0252	14	0.24	101.99	0
101	Acid Soluble Ca (%)	0035	1.105	0.0700	1.078	0.0765	0.0252	14	0.35	101.30	0
101	Acid Soluble Ca (%)	0624	1.109	0.0530	1.078	0.0765	0.0252	14	0.39	101.33	0
101	Acid Soluble Ca (%)	0354	1.140	0.0600	1.078	0.0765	0.0252	14	0.81	101.30	0
101	Acid Soluble Ca (%)	0630	1.168	0.0584	1.078	0.0765	0.0252	14	1.17	101.33	0
101	Acid Soluble Ca (%)	0552	1.205	0.0100	1.078	0.0765	0.0252	14	1.66	101.99	0
121	Acid Soluble Mg (1.3%)	0521	0.7200†	0.0000	1.573	0.1073	0.0460	55	-7.95	121.33	0
121	Acid Soluble Mg (1.3%)	0580	1.375	0.2100	1.573	0.1073	0.0460	55	-1.84	121.00	0
121	Acid Soluble Mg (1.3%)	0255	1.378	0.0250	1.573	0.1073	0.0460	55	-1.82	121.30	0
121	Acid Soluble Mg (1.3%)	0515	1.404	0.0290	1.573	0.1073	0.0460	55	-1.58	121.99	0
121	Acid Soluble Mg (1.3%)	0553	1.430	0.0000	1.573	0.1073	0.0460	55	-1.33	121.00	0
121	Acid Soluble Mg (1.3%)	0515	1.452	0.1110	1.573	0.1073	0.0460	55	-1.13	121.33	0
121	Acid Soluble Mg (1.3%)	0095	1.455	0.0300	1.573	0.1073	0.0460	55	-1.10	121.32	0
121	Acid Soluble Mg (1.3%)	0423	1.468	0.0310	1.573	0.1073	0.0460	55	-0.98	121.32	0
121	Acid Soluble Mg (1.3%)	0405	1.469	0.0115	1.573	0.1073	0.0460	55	-0.97	121.32	0
121	Acid Soluble Mg (1.3%)	0106	1.470	0.0010	1.573	0.1073	0.0460	55	-0.96	121.33	0
121	Acid Soluble Mg (1.3%)	0042	1.474	0.0340	1.573	0.1073	0.0460	55	-0.92	121.99	0
121	Acid Soluble Mg (1.3%)	0177	1.476	0.0053	1.573	0.1073	0.0460	55	-0.90	121.33	0
121	Acid Soluble Mg (1.3%)	0220	1.490	0.0200	1.573	0.1073	0.0460	55	-0.77	121.32	0
121	Acid Soluble Mg (1.3%)	0498	1.500	0.0000	1.573	0.1073	0.0460	55	-0.68	121.03	0
121	Acid Soluble Mg (1.3%)	0354	1.510	0.0800	1.573	0.1073	0.0460	55	-0.58	121.30	0
121	Acid Soluble Mg (1.3%)	0368	1.511	0.0235	1.573	0.1073	0.0460	55	-0.58	121.99	0
121	Acid Soluble Mg (1.3%)	0552	1.515	0.0100	1.573	0.1073	0.0460	55	-0.54	121.99	0
121	Acid Soluble Mg (1.3%)	0626	1.520	0.0400	1.573	0.1073	0.0460	55	-0.49	121.00	0
121	Acid Soluble Mg (1.3%)	0136	1.520	0.0400	1.573	0.1073	0.0460	55	-0.49	121.33	0
121	Acid Soluble Mg (1.3%)	0055	1.525	0.0100	1.573	0.1073	0.0460	55	-0.44	121.33	0
121	Acid Soluble Mg (1.3%)	0307	1.525	0.0700	1.573	0.1073	0.0460	55	-0.44	121.99	0
121	Acid Soluble Mg (1.3%)	0037	1.543	0.1174	1.573	0.1073	0.0460	55	-0.28	121.33	0
121	Acid Soluble Mg (1.3%)	0040	1.545	0.0100	1.573	0.1073	0.0460	55	-0.26	121.00	0
121	Acid Soluble Mg (1.3%)	0543	1.555	0.0820	1.573	0.1073	0.0460	55	-0.16	121.33	0
121	Acid Soluble Mg (1.3%)	0572	1.562	0.0385	1.573	0.1073	0.0460	55	-0.10	121.99	0
121	Acid Soluble Mg (1.3%)	0451	1.566	0.0100	1.573	0.1073	0.0460	55	-0.06	121.30	0
121	Acid Soluble Mg (1.3%)	0624	1.566	0.0100	1.573	0.1073	0.0460	55	-0.06	121.33	0
121	Acid Soluble Mg (1.3%)	0324	1.575	0.1500	1.573	0.1073	0.0460	55	0.02	121.30	0
121	Acid Soluble Mg (1.3%)	0360	1.575	0.0100	1.573	0.1073	0.0460	55	0.02	121.30	0
121	Acid Soluble Mg (1.3%)	0029	1.577	0.0620	1.573	0.1073	0.0460	55	0.04	121.00	0
121	Acid Soluble Mg (1.3%)	0524	1.584	0.0021	1.573	0.1073	0.0460	55	0.11	121.99	0
121	Acid Soluble Mg (1.3%)	0609	1.590	0.0200	1.573	0.1073	0.0460	55	0.16	121.33	0
121	Acid Soluble Mg (1.3%)	0527	1.597	0.0039	1.573	0.1073	0.0460	55	0.23	121.33	0
121	Acid Soluble Mg (1.3%)	0542	1.600	0.0550	1.573	0.1073	0.0460	55	0.25	121.99	0
121	Acid Soluble Mg (1.3%)	0035	1.615	0.1100	1.573	0.1073	0.0460	55	0.40	121.30	0
121	Acid Soluble Mg (1.3%)	0234	1.620	0.0400	1.573	0.1073	0.0460	55	0.44	121.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
121	Acid Soluble Mg (1.3%)	0587	1.625	0.0100	1.573	0.1073	0.0460	55	0.49	121.99	0
121	Acid Soluble Mg (1.3%)	0605	1.625	0.1100	1.573	0.1073	0.0460	55	0.49	121.99	0
121	Acid Soluble Mg (1.3%)	0292	1.630	0.0200	1.573	0.1073	0.0460	55	0.54	121.32	0
121	Acid Soluble Mg (1.3%)	0394	1.631	0.0105	1.573	0.1073	0.0460	55	0.55	121.33	0
121	Acid Soluble Mg (1.3%)	0043	1.640	0.0000	1.573	0.1073	0.0460	55	0.63	121.33	0
121	Acid Soluble Mg (1.3%)	0086	1.640	0.1853	1.573	0.1073	0.0460	55	0.63	121.33	0
121	Acid Soluble Mg (1.3%)	0513	1.660	0.0200	1.573	0.1073	0.0460	55	0.81	121.30	0
121	Acid Soluble Mg (1.3%)	0027	1.660	0.0200	1.573	0.1073	0.0460	55	0.81	121.99	0
121	Acid Soluble Mg (1.3%)	0485	1.660	0.1000	1.573	0.1073	0.0460	55	0.81	121.00	0
121	Acid Soluble Mg (1.3%)	0421	1.674	0.0300	1.573	0.1073	0.0460	55	0.95	121.33	0
121	Acid Soluble Mg (1.3%)	0049	1.680	0.1000	1.573	0.1073	0.0460	55	1.00	121.30	0
121	Acid Soluble Mg (1.3%)	0433	1.690	0.0600	1.573	0.1073	0.0460	55	1.09	121.30	0
121	Acid Soluble Mg (1.3%)	0612	1.690	0.0600	1.573	0.1073	0.0460	55	1.09	121.33	0
121	Acid Soluble Mg (1.3%)	0231	1.695	0.0300	1.573	0.1073	0.0460	55	1.14	121.30	0
121	Acid Soluble Mg (1.3%)	0630	1.770	0.1267	1.573	0.1073	0.0460	55	1.84	121.33	0
121	Acid Soluble Mg (1.3%)	0563	1.800	0.0000	1.573	0.1073	0.0460	55	2.12	121.33	0
121	Acid Soluble Mg (1.3%)	0452	1.855±	0.0300	1.573	0.1073	0.0460	55	2.63	121.33	0
121	Acid Soluble Mg (1.3%)	0472	1.910±	0.0200	1.573	0.1073	0.0460	55	3.15	121.33	0
121	Acid Soluble Mg (1.3%)	0444	2.050±	0.1000	1.573	0.1073	0.0460	55	4.45	121.30	0
121	Acid Soluble Mg (1.3%)	0523	1.755	0.2300	1.573	0.1073	0.0460	55	1.70	121.99	1
131	Water Soluble Mg (%)	0572	0.7930	0.0099	1.395	0.2239	0.0492	14	-2.69	131.99	0
131	Water Soluble Mg (%)	0626	0.8400	0.0200	1.395	0.2239	0.0492	14	-2.48	131.00	0
131	Water Soluble Mg (%)	0559	1.265	0.0100	1.395	0.2239	0.0492	14	-0.58	131.99	0
131	Water Soluble Mg (%)	0562	1.265	0.0100	1.395	0.2239	0.0492	14	-0.58	131.99	0
131	Water Soluble Mg (%)	0584	1.275	0.1300	1.395	0.2239	0.0492	14	-0.53	131.70	0
131	Water Soluble Mg (%)	0619	1.370	0.1200	1.395	0.2239	0.0492	14	-0.11	131.30	0
131	Water Soluble Mg (%)	0619	1.370	0.1200	1.395	0.2239	0.0492	14	-0.11	131.99	0
131	Water Soluble Mg (%)	0405	1.455	0.0300	1.395	0.2239	0.0492	14	0.27	131.30	0
131	Water Soluble Mg (%)	0394	1.479	0.0123	1.395	0.2239	0.0492	14	0.38	131.30	0
131	Water Soluble Mg (%)	0117	1.493	0.0557	1.395	0.2239	0.0492	14	0.44	131.30	0
131	Water Soluble Mg (%)	0029	1.497	0.0110	1.395	0.2239	0.0492	14	0.45	131.00	0
131	Water Soluble Mg (%)	0444	1.600	0.0000	1.395	0.2239	0.0492	14	0.92	131.30	0
131	Water Soluble Mg (%)	0027	1.610	0.0200	1.395	0.2239	0.0492	14	0.96	131.30	0
131	Water Soluble Mg (%)	0510	1.884	0.0913	1.395	0.2239	0.0492	14	2.19	131.70	0
143	Elemental S (%)	0405	0.0900	0.0000	5.639	3.156	0.0495	5	-1.76	143.00	0
143	Elemental S (%)	0255	6.281	0.0020	5.639	3.156	0.0495	5	0.20	143.99	0
143	Elemental S (%)	0368	6.777	0.0261	5.639	3.156	0.0495	5	0.36	143.99	0
143	Elemental S (%)	0291	7.175	0.0100	5.639	3.156	0.0495	5	0.49	143.99	0
143	Elemental S (%)	0389	7.870	0.1600	5.639	3.156	0.0495	5	0.71	143.99	0
145	Sulfate S, HCl soluble (%)	0518	6.200	0.2000	6.726	0.3555	0.2380	6	-1.32	145.99	0
145	Sulfate S, HCl soluble (%)	0619	6.530	0.0000	6.726	0.3555	0.2380	6	-0.49	145.99	0
145	Sulfate S, HCl soluble (%)	0106	6.750	0.4800	6.726	0.3555	0.2380	6	0.06	145.00	0
145	Sulfate S, HCl soluble (%)	0553	6.865	0.1500	6.726	0.3555	0.2380	6	0.35	145.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
145	Sulfate S, HCl soluble (%)	0027	6.985	0.3100	6.726	0.3555	0.2380	6	0.65	145.00	0
145	Sulfate S, HCl soluble (%)	0405	7.025	0.0500	6.726	0.3555	0.2380	6	0.75	145.00	0
148	Total S (6.3%)	0444	5.670†	0.1200	6.940	0.4829	0.1292	46	-2.63	148.07	0
148	Total S (6.3%)	0515	6.209†	0.3220	6.940	0.4829	0.1292	46	-1.51	148.07	0
148	Total S (6.3%)	0543	6.268†	0.4620	6.940	0.4829	0.1292	46	-1.39	148.07	0
148	Total S (6.3%)	0521	6.410	0.0000	6.940	0.4829	0.1292	46	-1.10	148.99	0
148	Total S (6.3%)	0624	6.449	0.2290	6.940	0.4829	0.1292	46	-1.02	148.07	0
148	Total S (6.3%)	0559	6.450	0.1000	6.940	0.4829	0.1292	46	-1.01	148.99	0
148	Total S (6.3%)	0584	6.484	0.0470	6.940	0.4829	0.1292	46	-0.95	148.01	0
148	Total S (6.3%)	0562	6.500	0.0000	6.940	0.4829	0.1292	46	-0.91	148.99	0
148	Total S (6.3%)	0498	6.550	0.3000	6.940	0.4829	0.1292	46	-0.81	148.01	0
148	Total S (6.3%)	0095	6.570	0.0200	6.940	0.4829	0.1292	46	-0.77	148.01	0
148	Total S (6.3%)	0136	6.580	0.2200	6.940	0.4829	0.1292	46	-0.75	148.07	0
148	Total S (6.3%)	0580	6.590	0.1400	6.940	0.4829	0.1292	46	-0.72	148.01	0
148	Total S (6.3%)	0626	6.600	0.0000	6.940	0.4829	0.1292	46	-0.70	148.00	0
148	Total S (6.3%)	0354	6.625	0.2700	6.940	0.4829	0.1292	46	-0.65	148.99	0
148	Total S (6.3%)	0619	6.635	0.0300	6.940	0.4829	0.1292	46	-0.63	148.07	0
148	Total S (6.3%)	0619	6.635	0.0300	6.940	0.4829	0.1292	46	-0.63	148.99	0
148	Total S (6.3%)	0394	6.658	0.0070	6.940	0.4829	0.1292	46	-0.58	148.07	0
148	Total S (6.3%)	0177	6.773	0.1977	6.940	0.4829	0.1292	46	-0.34	148.07	0
148	Total S (6.3%)	0037	6.800	0.0600	6.940	0.4829	0.1292	46	-0.29	148.07	0
148	Total S (6.3%)	0612	6.800	0.7400	6.940	0.4829	0.1292	46	-0.29	148.07	0
148	Total S (6.3%)	0472	6.845	0.1100	6.940	0.4829	0.1292	46	-0.20	148.07	0
148	Total S (6.3%)	0451	6.870	0.2600	6.940	0.4829	0.1292	46	-0.14	148.00	0
148	Total S (6.3%)	0157	6.885	0.2700	6.940	0.4829	0.1292	46	-0.11	148.00	0
148	Total S (6.3%)	0433	6.945	0.3300	6.940	0.4829	0.1292	46	0.01	148.99	0
148	Total S (6.3%)	0040	7.000	0.2000	6.940	0.4829	0.1292	46	0.12	148.07	0
148	Total S (6.3%)	0029	7.050	0.0300	6.940	0.4829	0.1292	46	0.23	148.00	0
148	Total S (6.3%)	0377	7.060	0.6400	6.940	0.4829	0.1292	46	0.25	148.99	0
148	Total S (6.3%)	0025	7.061	0.0090	6.940	0.4829	0.1292	46	0.25	148.00	0
148	Total S (6.3%)	0114	7.068	0.1903	6.940	0.4829	0.1292	46	0.26	148.00	0
148	Total S (6.3%)	0157	7.085	0.0100	6.940	0.4829	0.1292	46	0.30	148.01	0
148	Total S (6.3%)	0405	7.115	0.0500	6.940	0.4829	0.1292	46	0.36	148.01	0
148	Total S (6.3%)	0292	7.160	0.0200	6.940	0.4829	0.1292	46	0.46	148.07	0
148	Total S (6.3%)	0542	7.185	0.1470	6.940	0.4829	0.1292	46	0.51	148.99	0
148	Total S (6.3%)	0043	7.185	0.0500	6.940	0.4829	0.1292	46	0.51	148.07	0
148	Total S (6.3%)	0527	7.203	0.0200	6.940	0.4829	0.1292	46	0.54	148.07	0
148	Total S (6.3%)	0086	7.210	0.0192	6.940	0.4829	0.1292	46	0.56	148.07	0
148	Total S (6.3%)	0055	7.285	0.0300	6.940	0.4829	0.1292	46	0.71	148.01	0
148	Total S (6.3%)	0605	7.285	0.0700	6.940	0.4829	0.1292	46	0.71	148.99	0
148	Total S (6.3%)	0572	7.387	0.1432	6.940	0.4829	0.1292	46	0.93	148.99	0
148	Total S (6.3%)	0452	7.590‡	0.0400	6.940	0.4829	0.1292	46	1.35	148.07	0
148	Total S (6.3%)	0324	7.635‡	0.1500	6.940	0.4829	0.1292	46	1.44	148.01	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
148	Total S (6.3%)	0513	7.670±	0.1000	6.940	0.4829	0.1292	46	1.51	148.07	0
148	Total S (6.3%)	0523	7.770±	0.1000	6.940	0.4829	0.1292	46	1.72	148.99	0
148	Total S (6.3%)	0421	7.970±	0.0200	6.940	0.4829	0.1292	46	2.13	148.07	0
148	Total S (6.3%)	0220	8.225±	0.1100	6.940	0.4829	0.1292	46	2.66	148.01	0
148	Total S (6.3%)	0563	8.750±	0.1000	6.940	0.4829	0.1292	46	3.75	148.07	0
148	Total S (6.3%)	0422	8.976±	1.342	6.940	0.4829	0.1292	46	4.22	148.99	1
149	S - HNO3 soluble (%)	0423	6.930	0.0590	7.632	0.7677	0.2392	3	-0.92	149.04	0
149	S - HNO3 soluble (%)	0231	7.515	0.1500	7.632	0.7677	0.2392	3	-0.15	149.04	0
149	S - HNO3 soluble (%)	0524	8.451	0.5085	7.632	0.7677	0.2392	3	1.07	149.04	0
151	Acid Soluble As (ppm)	0624	0.2075	0.0030	0.6723	0.1557	0.0478	11	-2.99	151.33	0
151	Acid Soluble As (ppm)	0220	0.5500	0.1000	0.6723	0.1557	0.0478	11	-0.79	151.32	0
151	Acid Soluble As (ppm)	0220	0.5500	0.1000	0.6723	0.1557	0.0478	11	-0.79	151.99	0
151	Acid Soluble As (ppm)	0498	0.6000	0.0000	0.6723	0.1557	0.0478	11	-0.46	151.00	0
151	Acid Soluble As (ppm)	0394	0.6111	0.0017	0.6723	0.1557	0.0478	11	-0.39	151.33	0
151	Acid Soluble As (ppm)	0626	0.6800	0.0600	0.6723	0.1557	0.0478	11	0.05	151.99	0
151	Acid Soluble As (ppm)	0524	0.7001	0.0118	0.6723	0.1557	0.0478	11	0.18	151.30	0
151	Acid Soluble As (ppm)	0534	0.7600	0.0000	0.6723	0.1557	0.0478	11	0.56	151.00	0
151	Acid Soluble As (ppm)	0572	0.7683	0.0120	0.6723	0.1557	0.0478	11	0.62	151.99	0
151	Acid Soluble As (ppm)	0523	0.8570	0.1220	0.6723	0.1557	0.0478	11	1.19	151.30	0
151	Acid Soluble As (ppm)	0563	0.8800	0.0200	0.6723	0.1557	0.0478	11	1.33	151.33	0
151	Acid Soluble As (ppm)	0515	5.836	6.202	0.6723	0.1557	0.0478	11	33.17	151.34	1
151	Acid Soluble As (ppm)	0255	0.0000	0.0000	0.6723	0.1557	0.0478	11		151.30	4
151	Acid Soluble As (ppm)	0527	< 0.0001		0.6723	0.1557	0.0478	11		151.33	5
151	Acid Soluble As (ppm)	0515	< 0.186		0.6723	0.1557	0.0478	11		151.33	5
151	Acid Soluble As (ppm)	0368	< 0.5		0.6723	0.1557	0.0478	11		151.34	5
151	Acid Soluble As (ppm)	0136	< 1		0.6723	0.1557	0.0478	11		151.33	5
151	Acid Soluble As (ppm)	0405	< 3		0.6723	0.1557	0.0478	11		151.32	5
151	Acid Soluble As (ppm)	0605	< 6.2		0.6723	0.1557	0.0478	11		151.30	5
165	Acid Soluble B (%)	0524	0.0009	0.0001	0.0017	0.0010	0.0009	7	-0.82	165.99	0
165	Acid Soluble B (%)	0542	0.0010	0.0000	0.0017	0.0010	0.0009	7	-0.68	165.99	0
165	Acid Soluble B (%)	0563	0.0012	0.0002	0.0017	0.0010	0.0009	7	-0.50	165.99	0
165	Acid Soluble B (%)	0515	0.0015	0.0013	0.0017	0.0010	0.0009	7	-0.27	165.99	0
165	Acid Soluble B (%)	0624	0.0020	0.0020	0.0017	0.0010	0.0009	7	0.23	165.99	0
165	Acid Soluble B (%)	0553	0.0025	0.0010	0.0017	0.0010	0.0009	7	0.68	165.00	0
165	Acid Soluble B (%)	0354	0.0100	0.0000	0.0017	0.0010	0.0009	7	7.51	165.30	0
165	Acid Soluble B (%)	0421	0.0000	0.0000	0.0017	0.0010	0.0009	7		165.99	4
165	Acid Soluble B (%)	0552	0.0000	0.0000	0.0017	0.0010	0.0009	7		165.99	4
165	Acid Soluble B (%)	0527	< 0.01		0.0017	0.0010	0.0009	7		165.99	5
165	Acid Soluble B (%)	0572	< 0.0109		0.0017	0.0010	0.0009	7		165.99	5
171	Water Soluble B (%)	0572	< 0.0109					0		171.99	5
181	Acid Soluble Cd (ppm)	0563	0.2850	0.0100	0.5177	0.1876	0.0710	11	-1.24	181.33	0
181	Acid Soluble Cd (ppm)	0394	0.3570	0.0020	0.5177	0.1876	0.0710	11	-0.86	181.30	0
181	Acid Soluble Cd (ppm)	0572	0.3576	0.0441	0.5177	0.1876	0.0710	11	-0.85	181.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
181	Acid Soluble Cd (ppm)	0523	0.4030	0.0580	0.5177	0.1876	0.0710	11	-0.61	181.30	0
181	Acid Soluble Cd (ppm)	0086	0.4714	0.0456	0.5177	0.1876	0.0710	11	-0.25	181.33	0
181	Acid Soluble Cd (ppm)	0220	0.5000	0.2000	0.5177	0.1876	0.0710	11	-0.09	181.99	0
181	Acid Soluble Cd (ppm)	0220	0.5500	0.1000	0.5177	0.1876	0.0710	11	0.17	181.32	0
181	Acid Soluble Cd (ppm)	0377	0.6000	0.0000	0.5177	0.1876	0.0710	11	0.44	181.30	0
181	Acid Soluble Cd (ppm)	0524	0.6186	0.1647	0.5177	0.1876	0.0710	11	0.54	181.30	0
181	Acid Soluble Cd (ppm)	0624	0.7530	0.0071	0.5177	0.1876	0.0710	11	1.25	181.33	0
181	Acid Soluble Cd (ppm)	0498	0.8500	0.1000	0.5177	0.1876	0.0710	11	1.77	181.00	0
181	Acid Soluble Cd (ppm)	0255	3.188	4.303	0.5177	0.1876	0.0710	11	14.23	181.30	1
181	Acid Soluble Cd (ppm)	0527	< 0.0001		0.5177	0.1876	0.0710	11		181.33	5
181	Acid Soluble Cd (ppm)	0368	< 0.1		0.5177	0.1876	0.0710	11		181.34	5
181	Acid Soluble Cd (ppm)	0515	< 0.133		0.5177	0.1876	0.0710	11		181.33	5
181	Acid Soluble Cd (ppm)	0515	< 0.19		0.5177	0.1876	0.0710	11		181.34	5
181	Acid Soluble Cd (ppm)	0534	< 0.5		0.5177	0.1876	0.0710	11		181.00	5
181	Acid Soluble Cd (ppm)	0626	< 1		0.5177	0.1876	0.0710	11		181.30	5
181	Acid Soluble Cd (ppm)	0405	< 1		0.5177	0.1876	0.0710	11		181.32	5
181	Acid Soluble Cd (ppm)	0136	< 1		0.5177	0.1876	0.0710	11		181.33	5
181	Acid Soluble Cd (ppm)	0605	< 1.85		0.5177	0.1876	0.0710	11		181.30	5
190	Water Soluble Cl (%)	0553	0.3125	0.0050				1		190.00	0
191	Acid Soluble Cr (ppm)	0572	7.767	0.1923	14.56	5.612	1.135	23	-1.21	191.99	0
191	Acid Soluble Cr (ppm)	0524	8.598	0.3378	14.56	5.612	1.135	23	-1.06	191.30	0
191	Acid Soluble Cr (ppm)	0515	8.976	0.6290	14.56	5.612	1.135	23	-0.99	191.33	0
191	Acid Soluble Cr (ppm)	0220	9.050	0.5000	14.56	5.612	1.135	23	-0.98	191.99	0
191	Acid Soluble Cr (ppm)	0220	9.350	1.500	14.56	5.612	1.135	23	-0.93	191.32	0
191	Acid Soluble Cr (ppm)	0523	10.77	0.6100	14.56	5.612	1.135	23	-0.67	191.30	0
191	Acid Soluble Cr (ppm)	0377	11.40	2.850	14.56	5.612	1.135	23	-0.56	191.30	0
191	Acid Soluble Cr (ppm)	0624	11.52	0.0513	14.56	5.612	1.135	23	-0.54	191.33	0
191	Acid Soluble Cr (ppm)	0394	11.60	0.4400	14.56	5.612	1.135	23	-0.53	191.30	0
191	Acid Soluble Cr (ppm)	0563	12.00	0.0000	14.56	5.612	1.135	23	-0.46	191.33	0
191	Acid Soluble Cr (ppm)	0630	12.65	0.4410	14.56	5.612	1.135	23	-0.34	191.30	0
191	Acid Soluble Cr (ppm)	0605	14.02	0.2300	14.56	5.612	1.135	23	-0.10	191.30	0
191	Acid Soluble Cr (ppm)	0027	14.44	0.7000	14.56	5.612	1.135	23	-0.02	191.30	0
191	Acid Soluble Cr (ppm)	0405	15.00	0.0000	14.56	5.612	1.135	23	0.08	191.32	0
191	Acid Soluble Cr (ppm)	0037	15.08	1.151	14.56	5.612	1.135	23	0.09	191.33	0
191	Acid Soluble Cr (ppm)	0498	16.75	3.100	14.56	5.612	1.135	23	0.39	191.00	0
191	Acid Soluble Cr (ppm)	0136	17.32	0.5100	14.56	5.612	1.135	23	0.49	191.33	0
191	Acid Soluble Cr (ppm)	0086	18.58	0.4951	14.56	5.612	1.135	23	0.72	191.33	0
191	Acid Soluble Cr (ppm)	0626	19.41	0.9200	14.56	5.612	1.135	23	0.86	191.99	0
191	Acid Soluble Cr (ppm)	0527	21.66	0.1355	14.56	5.612	1.135	23	1.27	191.33	0
191	Acid Soluble Cr (ppm)	0626	23.32	3.730	14.56	5.612	1.135	23	1.56	191.30	0
191	Acid Soluble Cr (ppm)	0035	25.05	3.100	14.56	5.612	1.135	23	1.87	191.30	0
191	Acid Soluble Cr (ppm)	0515	33.92	3.600	14.56	5.612	1.135	23	3.45	191.34	0
191	Acid Soluble Cr (ppm)	0368	4.850	8.300	14.56	5.612	1.135	23	-1.73	191.34	1

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
202	Acid Soluble Co (ppm)	0220	0.7000	0.0000	1.156	0.3805	0.1784	12	-1.20	202.32	0
202	Acid Soluble Co (ppm)	0220	0.7500	0.1000	1.156	0.3805	0.1784	12	-1.07	202.99	0
202	Acid Soluble Co (ppm)	0563	0.8450	0.0300	1.156	0.3805	0.1784	12	-0.82	202.33	0
202	Acid Soluble Co (ppm)	0368	1.000	0.0000	1.156	0.3805	0.1784	12	-0.41	202.34	0
202	Acid Soluble Co (ppm)	0086	1.040	0.1716	1.156	0.3805	0.1784	12	-0.31	202.33	0
202	Acid Soluble Co (ppm)	0572	1.044	0.0187	1.156	0.3805	0.1784	12	-0.29	202.99	0
202	Acid Soluble Co (ppm)	0523	1.074	0.0810	1.156	0.3805	0.1784	12	-0.22	202.30	0
202	Acid Soluble Co (ppm)	0527	1.228	0.0383	1.156	0.3805	0.1784	12	0.19	202.33	0
202	Acid Soluble Co (ppm)	0630	1.308	0.5020	1.156	0.3805	0.1784	12	0.40	202.30	0
202	Acid Soluble Co (ppm)	0524	1.562	0.0058	1.156	0.3805	0.1784	12	1.07	202.30	0
202	Acid Soluble Co (ppm)	0377	1.595	0.7900	1.156	0.3805	0.1784	12	1.15	202.30	0
202	Acid Soluble Co (ppm)	0542	2.636	0.3220	1.156	0.3805	0.1784	12	3.89	202.30	0
202	Acid Soluble Co (ppm)	0255	26.16	9.360	1.156	0.3805	0.1784	12	65.71	202.99	1
202	Acid Soluble Co (ppm)	0515	< 0.139		1.156	0.3805	0.1784	12		202.33	5
202	Acid Soluble Co (ppm)	0515	< 0.26		1.156	0.3805	0.1784	12		202.34	5
202	Acid Soluble Co (ppm)	0405	< 1		1.156	0.3805	0.1784	12		202.32	5
202	Acid Soluble Co (ppm)	0136	< 2.5		1.156	0.3805	0.1784	12		202.33	5
202	Acid Soluble Co (ppm)	0626	< 5		1.156	0.3805	0.1784	12		202.30	5
202	Acid Soluble Co (ppm)	0626	< 5		1.156	0.3805	0.1784	12		202.99	5
221	Acid Soluble Cu (0.08%)	0619	0.06000†	0.0000	0.0788	0.0049	0.0023	58	-3.80	221.99	0
221	Acid Soluble Cu (0.08%)	0619	0.06400†	0.0000	0.0788	0.0049	0.0023	58	-2.99	221.30	0
221	Acid Soluble Cu (0.08%)	0423	0.0665	0.0010	0.0788	0.0049	0.0023	58	-2.48	221.32	0
221	Acid Soluble Cu (0.08%)	0552	0.0695	0.0030	0.0788	0.0049	0.0023	58	-1.87	221.30	0
221	Acid Soluble Cu (0.08%)	0368	0.0716	0.0007	0.0788	0.0049	0.0023	58	-1.46	221.99	0
221	Acid Soluble Cu (0.08%)	0444	0.0720	0.0040	0.0788	0.0049	0.0023	58	-1.37	221.30	0
221	Acid Soluble Cu (0.08%)	0559	0.0723	0.0001	0.0788	0.0049	0.0023	58	-1.32	221.99	0
221	Acid Soluble Cu (0.08%)	0562	0.0723	0.0001	0.0788	0.0049	0.0023	58	-1.32	221.99	0
221	Acid Soluble Cu (0.08%)	0029	0.0729	0.0078	0.0788	0.0049	0.0023	58	-1.19	221.00	0
221	Acid Soluble Cu (0.08%)	0626	0.0735	0.0010	0.0788	0.0049	0.0023	58	-1.06	221.00	0
221	Acid Soluble Cu (0.08%)	0563	0.0740	0.0020	0.0788	0.0049	0.0023	58	-0.96	221.33	0
221	Acid Soluble Cu (0.08%)	0255	0.0745	0.0010	0.0788	0.0049	0.0023	58	-0.86	221.30	0
221	Acid Soluble Cu (0.08%)	0136	0.0745	0.0010	0.0788	0.0049	0.0023	58	-0.86	221.33	0
221	Acid Soluble Cu (0.08%)	0609	0.0745	0.0030	0.0788	0.0049	0.0023	58	-0.86	221.33	0
221	Acid Soluble Cu (0.08%)	0626	0.0745	0.0010	0.0788	0.0049	0.0023	58	-0.86	221.33	0
221	Acid Soluble Cu (0.08%)	0354	0.0750	0.0100	0.0788	0.0049	0.0023	58	-0.76	221.30	0
221	Acid Soluble Cu (0.08%)	0324	0.0755	0.0010	0.0788	0.0049	0.0023	58	-0.66	221.30	0
221	Acid Soluble Cu (0.08%)	0513	0.0765	0.0050	0.0788	0.0049	0.0023	58	-0.46	221.30	0
221	Acid Soluble Cu (0.08%)	0524	0.0767	0.0004	0.0788	0.0049	0.0023	58	-0.42	221.99	0
221	Acid Soluble Cu (0.08%)	0405	0.0769	0.0015	0.0788	0.0049	0.0023	58	-0.39	221.32	0
221	Acid Soluble Cu (0.08%)	0624	0.0774	0.0053	0.0788	0.0049	0.0023	58	-0.28	221.33	0
221	Acid Soluble Cu (0.08%)	0553	0.0780	0.0020	0.0788	0.0049	0.0023	58	-0.15	221.00	0
221	Acid Soluble Cu (0.08%)	0040	0.0781	0.0020	0.0788	0.0049	0.0023	58	-0.13	221.00	0
221	Acid Soluble Cu (0.08%)	0485	0.0782	0.0028	0.0788	0.0049	0.0023	58	-0.11	221.00	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
221	Acid Soluble Cu (0.08%)	0394	0.0783	0.0019	0.0788	0.0049	0.0023	58	-0.10	221.33	0
221	Acid Soluble Cu (0.08%)	0498	0.0790	0.0000	0.0788	0.0049	0.0023	58	0.05	221.03	0
221	Acid Soluble Cu (0.08%)	0523	0.0790	0.0020	0.0788	0.0049	0.0023	58	0.05	221.99	0
221	Acid Soluble Cu (0.08%)	0534	0.0797	0.0005	0.0788	0.0049	0.0023	58	0.18	221.99	0
221	Acid Soluble Cu (0.08%)	0231	0.0800	0.0000	0.0788	0.0049	0.0023	58	0.25	221.30	0
221	Acid Soluble Cu (0.08%)	0291	0.0800	0.0000	0.0788	0.0049	0.0023	58	0.25	221.30	0
221	Acid Soluble Cu (0.08%)	0292	0.0800	0.0000	0.0788	0.0049	0.0023	58	0.25	221.32	0
221	Acid Soluble Cu (0.08%)	0055	0.0800	0.0000	0.0788	0.0049	0.0023	58	0.25	221.33	0
221	Acid Soluble Cu (0.08%)	0472	0.0800	0.0000	0.0788	0.0049	0.0023	58	0.25	221.33	0
221	Acid Soluble Cu (0.08%)	0106	0.0803	0.0007	0.0788	0.0049	0.0023	58	0.30	221.33	0
221	Acid Soluble Cu (0.08%)	0086	0.0805	0.0009	0.0788	0.0049	0.0023	58	0.34	221.33	0
221	Acid Soluble Cu (0.08%)	0220	0.0805	0.0010	0.0788	0.0049	0.0023	58	0.35	221.32	0
221	Acid Soluble Cu (0.08%)	0360	0.0810	0.0040	0.0788	0.0049	0.0023	58	0.45	221.30	0
221	Acid Soluble Cu (0.08%)	0234	0.0812	0.0005	0.0788	0.0049	0.0023	58	0.48	221.30	0
221	Acid Soluble Cu (0.08%)	0451	0.0812	0.0003	0.0788	0.0049	0.0023	58	0.48	221.30	0
221	Acid Soluble Cu (0.08%)	0572	0.0813	0.0039	0.0788	0.0049	0.0023	58	0.51	221.99	0
221	Acid Soluble Cu (0.08%)	0377	0.0813	0.0017	0.0788	0.0049	0.0023	58	0.51	221.30	0
221	Acid Soluble Cu (0.08%)	0527	0.0814	0.0017	0.0788	0.0049	0.0023	58	0.53	221.33	0
221	Acid Soluble Cu (0.08%)	0612	0.0815	0.0050	0.0788	0.0049	0.0023	58	0.56	221.33	0
221	Acid Soluble Cu (0.08%)	0035	0.0819	0.0000	0.0788	0.0049	0.0023	58	0.64	221.30	0
221	Acid Soluble Cu (0.08%)	0037	0.0820	0.0046	0.0788	0.0049	0.0023	58	0.66	221.33	0
221	Acid Soluble Cu (0.08%)	0023	0.0820	0.0002	0.0788	0.0049	0.0023	58	0.66	221.30	0
221	Acid Soluble Cu (0.08%)	0043	0.0825	0.0010	0.0788	0.0049	0.0023	58	0.76	221.33	0
221	Acid Soluble Cu (0.08%)	0543	0.0830	0.0040	0.0788	0.0049	0.0023	58	0.86	221.33	0
221	Acid Soluble Cu (0.08%)	0542	0.0831	0.0016	0.0788	0.0049	0.0023	58	0.88	221.99	0
221	Acid Soluble Cu (0.08%)	0095	0.0837	0.0004	0.0788	0.0049	0.0023	58	1.00	221.32	0
221	Acid Soluble Cu (0.08%)	0630	0.0838	0.0074	0.0788	0.0049	0.0023	58	1.02	221.33	0
221	Acid Soluble Cu (0.08%)	0049	0.0842	0.0090	0.0788	0.0049	0.0023	58	1.10	221.30	0
221	Acid Soluble Cu (0.08%)	0027	0.0845	0.0010	0.0788	0.0049	0.0023	58	1.16	221.99	0
221	Acid Soluble Cu (0.08%)	0042	0.0850	0.0020	0.0788	0.0049	0.0023	58	1.26	221.99	0
221	Acid Soluble Cu (0.08%)	0587	0.0850	0.0100	0.0788	0.0049	0.0023	58	1.26	221.99	0
221	Acid Soluble Cu (0.08%)	0605	0.0850	0.0100	0.0788	0.0049	0.0023	58	1.26	221.99	0
221	Acid Soluble Cu (0.08%)	0515	0.0863	0.0015	0.0788	0.0049	0.0023	58	1.52	221.33	0
221	Acid Soluble Cu (0.08%)	0452	0.0880	0.0020	0.0788	0.0049	0.0023	58	1.87	221.33	0
221	Acid Soluble Cu (0.08%)	0515	0.0819	0.0235	0.0788	0.0049	0.0023	58	0.63	221.99	1
221	Acid Soluble Cu (0.08%)	0433	0.8350±	0.0300	0.0788	0.0049	0.0023	58	153.14	221.30	1
241	Acid Soluble Fe (0.32%)	0498	0.2300†	0.0000	0.3498	0.0315	0.0120	61	-3.81	241.03	0
241	Acid Soluble Fe (0.32%)	0485	0.2730†	0.0020	0.3498	0.0315	0.0120	61	-2.44	241.00	0
241	Acid Soluble Fe (0.32%)	0559	0.2950†	0.0100	0.3498	0.0315	0.0120	61	-1.74	241.99	0
241	Acid Soluble Fe (0.32%)	0360	0.2950†	0.0300	0.3498	0.0315	0.0120	61	-1.74	241.30	0
241	Acid Soluble Fe (0.32%)	0563	0.3000†	0.0200	0.3498	0.0315	0.0120	61	-1.58	241.33	0
241	Acid Soluble Fe (0.32%)	0234	0.3050†	0.0100	0.3498	0.0315	0.0120	61	-1.42	241.30	0
241	Acid Soluble Fe (0.32%)	0515	0.3092†	0.0228	0.3498	0.0315	0.0120	61	-1.29	241.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
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241	Acid Soluble Fe (0.32%)	0042	0.3135	0.0150	0.3498	0.0315	0.0120	61	-1.15	241.99	0
241	Acid Soluble Fe (0.32%)	0562	0.3150	0.0500	0.3498	0.0315	0.0120	61	-1.11	241.99	0
241	Acid Soluble Fe (0.32%)	0626	0.3175	0.0050	0.3498	0.0315	0.0120	61	-1.03	241.00	0
241	Acid Soluble Fe (0.32%)	0605	0.3200	0.0400	0.3498	0.0315	0.0120	61	-0.95	241.99	0
241	Acid Soluble Fe (0.32%)	0626	0.3225	0.0050	0.3498	0.0315	0.0120	61	-0.87	241.33	0
241	Acid Soluble Fe (0.32%)	0624	0.3235	0.0029	0.3498	0.0315	0.0120	61	-0.84	241.33	0
241	Acid Soluble Fe (0.32%)	0423	0.3240	0.0040	0.3498	0.0315	0.0120	61	-0.82	241.32	0
241	Acid Soluble Fe (0.32%)	0513	0.3250	0.0100	0.3498	0.0315	0.0120	61	-0.79	241.30	0
241	Acid Soluble Fe (0.32%)	0515	0.3275	0.0210	0.3498	0.0315	0.0120	61	-0.71	241.33	0
241	Acid Soluble Fe (0.32%)	0524	0.3283	0.0073	0.3498	0.0315	0.0120	61	-0.68	241.99	0
241	Acid Soluble Fe (0.32%)	0136	0.3300	0.0000	0.3498	0.0315	0.0120	61	-0.63	241.33	0
241	Acid Soluble Fe (0.32%)	0029	0.3336	0.0004	0.3498	0.0315	0.0120	61	-0.51	241.00	0
241	Acid Soluble Fe (0.32%)	0389	0.3350	0.0100	0.3498	0.0315	0.0120	61	-0.47	241.99	0
241	Acid Soluble Fe (0.32%)	0255	0.3355	0.0030	0.3498	0.0315	0.0120	61	-0.45	241.30	0
241	Acid Soluble Fe (0.32%)	0405	0.3377	0.0037	0.3498	0.0315	0.0120	61	-0.39	241.32	0
241	Acid Soluble Fe (0.32%)	0040	0.3400	0.0000	0.3498	0.0315	0.0120	61	-0.31	241.00	0
241	Acid Soluble Fe (0.32%)	0324	0.3425	0.0110	0.3498	0.0315	0.0120	61	-0.23	241.30	0
241	Acid Soluble Fe (0.32%)	0049	0.3449	0.0408	0.3498	0.0315	0.0120	61	-0.16	241.30	0
241	Acid Soluble Fe (0.32%)	0527	0.3450	0.0005	0.3498	0.0315	0.0120	61	-0.15	241.33	0
241	Acid Soluble Fe (0.32%)	0394	0.3464	0.0007	0.3498	0.0315	0.0120	61	-0.11	241.33	0
241	Acid Soluble Fe (0.32%)	0177	0.3472	0.0136	0.3498	0.0315	0.0120	61	-0.08	241.33	0
241	Acid Soluble Fe (0.32%)	0368	0.3482	0.0102	0.3498	0.0315	0.0120	61	-0.05	241.99	0
241	Acid Soluble Fe (0.32%)	0619	0.3515	0.0030	0.3498	0.0315	0.0120	61	0.05	241.30	0
241	Acid Soluble Fe (0.32%)	0619	0.3515	0.0030	0.3498	0.0315	0.0120	61	0.05	241.99	0
241	Acid Soluble Fe (0.32%)	0086	0.3530	0.0046	0.3498	0.0315	0.0120	61	0.10	241.33	0
241	Acid Soluble Fe (0.32%)	0553	0.3550	0.0100	0.3498	0.0315	0.0120	61	0.17	241.00	0
241	Acid Soluble Fe (0.32%)	0292	0.3550	0.0100	0.3498	0.0315	0.0120	61	0.17	241.32	0
241	Acid Soluble Fe (0.32%)	0043	0.3579	0.0034	0.3498	0.0315	0.0120	61	0.26	241.33	0
241	Acid Soluble Fe (0.32%)	0035	0.3590	0.0160	0.3498	0.0315	0.0120	61	0.29	241.30	0
241	Acid Soluble Fe (0.32%)	0587	0.3600	0.0200	0.3498	0.0315	0.0120	61	0.32	241.99	0
241	Acid Soluble Fe (0.32%)	0037	0.3615	0.0317	0.3498	0.0315	0.0120	61	0.37	241.33	0
241	Acid Soluble Fe (0.32%)	0572	0.3629	0.0010	0.3498	0.0315	0.0120	61	0.42	241.99	0
241	Acid Soluble Fe (0.32%)	0609	0.3665	0.0050	0.3498	0.0315	0.0120	61	0.53	241.33	0
241	Acid Soluble Fe (0.32%)	0231	0.3700	0.0000	0.3498	0.0315	0.0120	61	0.64	241.30	0
241	Acid Soluble Fe (0.32%)	0444	0.3700	0.0200	0.3498	0.0315	0.0120	61	0.64	241.30	0
241	Acid Soluble Fe (0.32%)	0095	0.3700	0.0000	0.3498	0.0315	0.0120	61	0.64	241.32	0
241	Acid Soluble Fe (0.32%)	0452	0.3700	0.0000	0.3498	0.0315	0.0120	61	0.64	241.33	0
241	Acid Soluble Fe (0.32%)	0027	0.3700	0.0000	0.3498	0.0315	0.0120	61	0.64	241.99	0
241	Acid Soluble Fe (0.32%)	0023	0.3725	0.0050	0.3498	0.0315	0.0120	61	0.72	241.30	0
241	Acid Soluble Fe (0.32%)	0377	0.3727	0.0083	0.3498	0.0315	0.0120	61	0.73	241.30	0
241	Acid Soluble Fe (0.32%)	0630	0.3743	0.0010	0.3498	0.0315	0.0120	61	0.78	241.33	0
241	Acid Soluble Fe (0.32%)	0523	0.3745	0.0250	0.3498	0.0315	0.0120	61	0.79	241.99	0
241	Acid Soluble Fe (0.32%)	0291	0.3750	0.0100	0.3498	0.0315	0.0120	61	0.80	241.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
241	Acid Soluble Fe (0.32%)	0055	0.3750	0.0100	0.3498	0.0315	0.0120	61	0.80	241.33	0
241	Acid Soluble Fe (0.32%)	0106	0.3753	0.0026	0.3498	0.0315	0.0120	61	0.81	241.33	0
241	Acid Soluble Fe (0.32%)	0542	0.3772	0.0046	0.3498	0.0315	0.0120	61	0.87	241.99	0
241	Acid Soluble Fe (0.32%)	0220	0.3785	0.0030	0.3498	0.0315	0.0120	61	0.91	241.32	0
241	Acid Soluble Fe (0.32%)	0543	0.3790	0.0260	0.3498	0.0315	0.0120	61	0.93	241.33	0
241	Acid Soluble Fe (0.32%)	0451	0.3902‡	0.0347	0.3498	0.0315	0.0120	61	1.28	241.30	0
241	Acid Soluble Fe (0.32%)	0612	0.3915‡	0.0290	0.3498	0.0315	0.0120	61	1.33	241.33	0
241	Acid Soluble Fe (0.32%)	0472	0.4000‡	0.0000	0.3498	0.0315	0.0120	61	1.60	241.33	0
241	Acid Soluble Fe (0.32%)	0552	0.4350‡	0.0100	0.3498	0.0315	0.0120	61	2.71	241.30	0
241	Acid Soluble Fe (0.32%)	0433	0.4450‡	0.0700	0.3498	0.0315	0.0120	61	3.03	241.30	0
241	Acid Soluble Fe (0.32%)	0518	0.4900‡	0.0200	0.3498	0.0315	0.0120	61	4.46	241.99	0
241	Acid Soluble Fe (0.32%)	0354	0.2005†	0.3390	0.3498	0.0315	0.0120	61	-4.74	241.30	1
251	Acid Soluble Pb (ppm)	0563	0.2300	0.0200	0.5522	0.3053	0.0780	7	-1.06	251.33	0
251	Acid Soluble Pb (ppm)	0572	0.3280	0.0057	0.5522	0.3053	0.0780	7	-0.73	251.99	0
251	Acid Soluble Pb (ppm)	0523	0.3735	0.1110	0.5522	0.3053	0.0780	7	-0.59	251.30	0
251	Acid Soluble Pb (ppm)	0220	0.5500	0.1000	0.5522	0.3053	0.0780	7	-0.01	251.32	0
251	Acid Soluble Pb (ppm)	0220	0.6500	0.1000	0.5522	0.3053	0.0780	7	0.32	251.99	0
251	Acid Soluble Pb (ppm)	0394	0.7240	0.0140	0.5522	0.3053	0.0780	7	0.56	251.30	0
251	Acid Soluble Pb (ppm)	0524	1.647	0.3546	0.5522	0.3053	0.0780	7	3.59	251.30	0
251	Acid Soluble Pb (ppm)	0086	1.287	0.5515	0.5522	0.3053	0.0780	7	2.41	251.33	1
251	Acid Soluble Pb (ppm)	0624	42.62	0.0859	0.5522	0.3053	0.0780	7	137.80	251.33	2
251	Acid Soluble Pb (ppm)	0255	0.0000	0.0000	0.5522	0.3053	0.0780	7		251.30	4
251	Acid Soluble Pb (ppm)	0527	< 0.0001		0.5522	0.3053	0.0780	7		251.33	5
251	Acid Soluble Pb (ppm)	0515	< 0.216		0.5522	0.3053	0.0780	7		251.33	5
251	Acid Soluble Pb (ppm)	0515	< 0.27		0.5522	0.3053	0.0780	7		251.34	5
251	Acid Soluble Pb (ppm)	0498	< 0.5		0.5522	0.3053	0.0780	7		251.00	5
251	Acid Soluble Pb (ppm)	0368	< 0.9		0.5522	0.3053	0.0780	7		251.34	5
251	Acid Soluble Pb (ppm)	0534	< 2		0.5522	0.3053	0.0780	7		251.00	5
251	Acid Soluble Pb (ppm)	0136	< 3		0.5522	0.3053	0.0780	7		251.33	5
251	Acid Soluble Pb (ppm)	0405	< 4		0.5522	0.3053	0.0780	7		251.32	5
251	Acid Soluble Pb (ppm)	0605	< 5		0.5522	0.3053	0.0780	7		251.30	5
251	Acid Soluble Pb (ppm)	0626	< 5		0.5522	0.3053	0.0780	7		251.30	5
251	Acid Soluble Pb (ppm)	0626	< 5		0.5522	0.3053	0.0780	7		251.99	5
261	Acid Soluble Mn (0.13%)	0498	0.09300†	0.0060	0.1415	0.0105	0.0065	58	-4.60	261.15	0
261	Acid Soluble Mn (0.13%)	0534	0.1010†	0.0000	0.1415	0.0105	0.0065	58	-3.84	261.11	0
261	Acid Soluble Mn (0.13%)	0136	0.1050†	0.0100	0.1415	0.0105	0.0065	58	-3.46	261.35	0
261	Acid Soluble Mn (0.13%)	0444	0.1200†	0.0000	0.1415	0.0105	0.0065	58	-2.04	261.30	0
261	Acid Soluble Mn (0.13%)	0559	0.1225	0.0010	0.1415	0.0105	0.0065	58	-1.80	261.99	0
261	Acid Soluble Mn (0.13%)	0562	0.1255	0.0050	0.1415	0.0105	0.0065	58	-1.52	261.99	0
261	Acid Soluble Mn (0.13%)	0521	0.1300	0.0000	0.1415	0.0105	0.0065	58	-1.09	261.35	0
261	Acid Soluble Mn (0.13%)	0563	0.1300	0.0000	0.1415	0.0105	0.0065	58	-1.09	261.35	0
261	Acid Soluble Mn (0.13%)	0177	0.1310	0.0097	0.1415	0.0105	0.0065	58	-1.00	261.35	0
261	Acid Soluble Mn (0.13%)	0255	0.1315	0.0050	0.1415	0.0105	0.0065	58	-0.95	261.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
261	Acid Soluble Mn (0.13%)	0524	0.1327	0.0002	0.1415	0.0105	0.0065	58	-0.84	261.99	0
261	Acid Soluble Mn (0.13%)	0624	0.1340	0.0035	0.1415	0.0105	0.0065	58	-0.72	261.35	0
261	Acid Soluble Mn (0.13%)	0354	0.1350	0.0100	0.1415	0.0105	0.0065	58	-0.62	261.30	0
261	Acid Soluble Mn (0.13%)	0552	0.1350	0.0100	0.1415	0.0105	0.0065	58	-0.62	261.32	0
261	Acid Soluble Mn (0.13%)	0513	0.1355	0.0050	0.1415	0.0105	0.0065	58	-0.57	261.32	0
261	Acid Soluble Mn (0.13%)	0042	0.1355	0.0030	0.1415	0.0105	0.0065	58	-0.57	261.99	0
261	Acid Soluble Mn (0.13%)	0405	0.1359	0.0036	0.1415	0.0105	0.0065	58	-0.53	261.33	0
261	Acid Soluble Mn (0.13%)	0423	0.1360	0.0020	0.1415	0.0105	0.0065	58	-0.52	261.34	0
261	Acid Soluble Mn (0.13%)	0609	0.1365	0.0050	0.1415	0.0105	0.0065	58	-0.48	261.35	0
261	Acid Soluble Mn (0.13%)	0626	0.1375	0.0010	0.1415	0.0105	0.0065	58	-0.38	261.35	0
261	Acid Soluble Mn (0.13%)	0394	0.1378	0.0052	0.1415	0.0105	0.0065	58	-0.35	261.35	0
261	Acid Soluble Mn (0.13%)	0043	0.1383	0.0003	0.1415	0.0105	0.0065	58	-0.31	261.35	0
261	Acid Soluble Mn (0.13%)	0086	0.1383	0.0039	0.1415	0.0105	0.0065	58	-0.31	261.35	0
261	Acid Soluble Mn (0.13%)	0626	0.1395	0.0030	0.1415	0.0105	0.0065	58	-0.19	261.12	0
261	Acid Soluble Mn (0.13%)	0368	0.1399	0.0022	0.1415	0.0105	0.0065	58	-0.16	261.99	0
261	Acid Soluble Mn (0.13%)	0291	0.1400	0.0000	0.1415	0.0105	0.0065	58	-0.15	261.30	0
261	Acid Soluble Mn (0.13%)	0231	0.1400	0.0000	0.1415	0.0105	0.0065	58	-0.15	261.32	0
261	Acid Soluble Mn (0.13%)	0095	0.1400	0.0000	0.1415	0.0105	0.0065	58	-0.15	261.34	0
261	Acid Soluble Mn (0.13%)	0389	0.1400	0.0000	0.1415	0.0105	0.0065	58	-0.15	261.99	0
261	Acid Soluble Mn (0.13%)	0037	0.1401	0.0130	0.1415	0.0105	0.0065	58	-0.14	261.35	0
261	Acid Soluble Mn (0.13%)	0324	0.1405	0.0010	0.1415	0.0105	0.0065	58	-0.10	261.31	0
261	Acid Soluble Mn (0.13%)	0542	0.1411	0.0029	0.1415	0.0105	0.0065	58	-0.05	261.99	0
261	Acid Soluble Mn (0.13%)	0572	0.1423	0.0101	0.1415	0.0105	0.0065	58	0.07	261.99	0
261	Acid Soluble Mn (0.13%)	0234	0.1423	0.0010	0.1415	0.0105	0.0065	58	0.07	261.30	0
261	Acid Soluble Mn (0.13%)	0360	0.1450	0.0100	0.1415	0.0105	0.0065	58	0.33	261.31	0
261	Acid Soluble Mn (0.13%)	0587	0.1450	0.0100	0.1415	0.0105	0.0065	58	0.33	261.99	0
261	Acid Soluble Mn (0.13%)	0106	0.1453	0.0078	0.1415	0.0105	0.0065	58	0.36	261.35	0
261	Acid Soluble Mn (0.13%)	0023	0.1455	0.0030	0.1415	0.0105	0.0065	58	0.38	261.32	0
261	Acid Soluble Mn (0.13%)	0515	0.1462	0.0268	0.1415	0.0105	0.0065	58	0.44	261.35	0
261	Acid Soluble Mn (0.13%)	0553	0.1465	0.0090	0.1415	0.0105	0.0065	58	0.47	261.00	0
261	Acid Soluble Mn (0.13%)	0040	0.1465	0.0010	0.1415	0.0105	0.0065	58	0.47	261.12	0
261	Acid Soluble Mn (0.13%)	0527	0.1494	0.0014	0.1415	0.0105	0.0065	58	0.75	261.35	0
261	Acid Soluble Mn (0.13%)	0515	0.1495	0.0303	0.1415	0.0105	0.0065	58	0.75	261.99	0
261	Acid Soluble Mn (0.13%)	0377	0.1499	0.0061	0.1415	0.0105	0.0065	58	0.79	261.32	0
261	Acid Soluble Mn (0.13%)	0292	0.1500	0.0000	0.1415	0.0105	0.0065	58	0.80	261.14	0
261	Acid Soluble Mn (0.13%)	0220	0.1500	0.0000	0.1415	0.0105	0.0065	58	0.80	261.32	0
261	Acid Soluble Mn (0.13%)	0452	0.1500	0.0000	0.1415	0.0105	0.0065	58	0.80	261.35	0
261	Acid Soluble Mn (0.13%)	0027	0.1500	0.0000	0.1415	0.0105	0.0065	58	0.80	261.99	0
261	Acid Soluble Mn (0.13%)	0543	0.1510	0.0080	0.1415	0.0105	0.0065	58	0.90	261.35	0
261	Acid Soluble Mn (0.13%)	0612	0.1510	0.0160	0.1415	0.0105	0.0065	58	0.90	261.35	0
261	Acid Soluble Mn (0.13%)	0523	0.1520	0.0160	0.1415	0.0105	0.0065	58	0.99	261.99	0
261	Acid Soluble Mn (0.13%)	0029	0.1521	0.0135	0.1415	0.0105	0.0065	58	1.00	261.12	0
261	Acid Soluble Mn (0.13%)	0049	0.1593	0.0087	0.1415	0.0105	0.0065	58	1.68	261.32	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
261	Acid Soluble Mn (0.13%)	0055	0.1600	0.0000	0.1415	0.0105	0.0065	58	1.75	261.35	0
261	Acid Soluble Mn (0.13%)	0472	0.1600	0.0000	0.1415	0.0105	0.0065	58	1.75	261.35	0
261	Acid Soluble Mn (0.13%)	0630	0.1623†	0.0052	0.1415	0.0105	0.0065	58	1.97	261.35	0
261	Acid Soluble Mn (0.13%)	0605	0.1650†	0.0100	0.1415	0.0105	0.0065	58	2.22	261.99	0
261	Acid Soluble Mn (0.13%)	0433	0.1700†	0.0200	0.1415	0.0105	0.0065	58	2.70	261.30	0
261	Acid Soluble Mn (0.13%)	0035	1.440†	0.0800	0.1415	0.0105	0.0065	58	123.12	261.30	1
271	Water Soluble Mn (%)	0394	0.0873	0.0014	0.1165	0.0318	0.0036	6	-0.82	271.30	0
271	Water Soluble Mn (%)	0485	0.0922	0.0078	0.1165	0.0318	0.0036	6	-0.68	271.00	0
271	Water Soluble Mn (%)	0626	0.0935	0.0010	0.1165	0.0318	0.0036	6	-0.64	271.00	0
271	Water Soluble Mn (%)	0027	0.1400	0.0000	0.1165	0.0318	0.0036	6	0.66	271.00	0
271	Water Soluble Mn (%)	0619	0.1430	0.0040	0.1165	0.0318	0.0036	6	0.74	271.30	0
271	Water Soluble Mn (%)	0619	0.1430	0.0040	0.1165	0.0318	0.0036	6	0.74	271.99	0
281	Acid Soluble Hg (ppm)	0394	0.0036	0.0000	0.0222	0.0287	0.0056	4	-0.65	281.30	0
281	Acid Soluble Hg (ppm)	0524	0.0100	0.0012	0.0222	0.0287	0.0056	4	-0.42	281.99	0
281	Acid Soluble Hg (ppm)	0626	0.0100	0.0000	0.0222	0.0287	0.0056	4	-0.42	281.99	0
281	Acid Soluble Hg (ppm)	0220	0.0650	0.0100	0.0222	0.0287	0.0056	4	1.49	281.99	0
281	Acid Soluble Hg (ppm)	0527	< 0.001		0.0222	0.0287	0.0056	4		281.30	5
281	Acid Soluble Hg (ppm)	0572	< 0.009		0.0222	0.0287	0.0056	4		281.99	5
281	Acid Soluble Hg (ppm)	0515	< 0.01		0.0222	0.0287	0.0056	4		281.30	5
281	Acid Soluble Hg (ppm)	0534	< 0.05		0.0222	0.0287	0.0056	4		281.00	5
281	Acid Soluble Hg (ppm)	0563	< 0.05		0.0222	0.0287	0.0056	4		281.30	5
281	Acid Soluble Hg (ppm)	0498	< 0.5		0.0222	0.0287	0.0056	4		281.00	5
281	Acid Soluble Hg (ppm)	0605	< 1.25		0.0222	0.0287	0.0056	4		281.30	5
281	Acid Soluble Hg (ppm)	0405	< 2		0.0222	0.0287	0.0056	4		281.30	5
289	Acid Soluble Mo (110ppm)	0563	83.50†	1.000	126.8	14.58	7.708	35	-2.97	289.33	0
289	Acid Soluble Mo (110ppm)	0515	91.66	33.89	126.8	14.58	7.708	35	-2.41	289.34	0
289	Acid Soluble Mo (110ppm)	0619	102.0	0.0000	126.8	14.58	7.708	35	-1.70	289.30	0
289	Acid Soluble Mo (110ppm)	0619	102.0	0.0000	126.8	14.58	7.708	35	-1.70	289.99	0
289	Acid Soluble Mo (110ppm)	0086	113.2	1.210	126.8	14.58	7.708	35	-0.94	289.33	0
289	Acid Soluble Mo (110ppm)	0515	114.3	9.400	126.8	14.58	7.708	35	-0.86	289.33	0
289	Acid Soluble Mo (110ppm)	0377	115.0	0.3000	126.8	14.58	7.708	35	-0.81	289.30	0
289	Acid Soluble Mo (110ppm)	0368	115.5	1.000	126.8	14.58	7.708	35	-0.78	289.34	0
289	Acid Soluble Mo (110ppm)	0524	118.3	1.159	126.8	14.58	7.708	35	-0.59	289.30	0
289	Acid Soluble Mo (110ppm)	0626	119.0	4.000	126.8	14.58	7.708	35	-0.54	289.33	0
289	Acid Soluble Mo (110ppm)	0234	121.0	4.000	126.8	14.58	7.708	35	-0.40	289.30	0
289	Acid Soluble Mo (110ppm)	0027	121.5	0.8700	126.8	14.58	7.708	35	-0.37	289.30	0
289	Acid Soluble Mo (110ppm)	0049	121.5	19.00	126.8	14.58	7.708	35	-0.37	289.30	0
289	Acid Soluble Mo (110ppm)	0523	124.1	2.660	126.8	14.58	7.708	35	-0.18	289.30	0
289	Acid Soluble Mo (110ppm)	0324	124.5	17.00	126.8	14.58	7.708	35	-0.16	289.30	0
289	Acid Soluble Mo (110ppm)	0444	125.0	30.00	126.8	14.58	7.708	35	-0.13	289.30	0
289	Acid Soluble Mo (110ppm)	0452	126.3	2.400	126.8	14.58	7.708	35	-0.04	289.33	0
289	Acid Soluble Mo (110ppm)	0605	127.2	12.99	126.8	14.58	7.708	35	0.02	289.30	0
289	Acid Soluble Mo (110ppm)	0136	127.3	2.300	126.8	14.58	7.708	35	0.03	289.33	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
289	Acid Soluble Mo (110ppm)	0394	127.9	17.10	126.8	14.58	7.708	35	0.07	289.33	0
289	Acid Soluble Mo (110ppm)	0220	128.0	6.000	126.8	14.58	7.708	35	0.08	289.99	0
289	Acid Soluble Mo (110ppm)	0572	129.0	10.84	126.8	14.58	7.708	35	0.15	289.99	0
289	Acid Soluble Mo (110ppm)	0035	130.5	3.000	126.8	14.58	7.708	35	0.25	289.30	0
289	Acid Soluble Mo (110ppm)	0630	132.5	19.00	126.8	14.58	7.708	35	0.39	289.30	0
289	Acid Soluble Mo (110ppm)	0423	132.8	1.300	126.8	14.58	7.708	35	0.41	289.33	0
289	Acid Soluble Mo (110ppm)	0255	133.0	3.800	126.8	14.58	7.708	35	0.42	289.30	0
289	Acid Soluble Mo (110ppm)	0037	136.8	20.84	126.8	14.58	7.708	35	0.68	289.33	0
289	Acid Soluble Mo (110ppm)	0542	137.6	4.200	126.8	14.58	7.708	35	0.74	289.30	0
289	Acid Soluble Mo (110ppm)	0527	138.9	2.324	126.8	14.58	7.708	35	0.83	289.33	0
289	Acid Soluble Mo (110ppm)	0106	140.0	2.000	126.8	14.58	7.708	35	0.90	289.33	0
289	Acid Soluble Mo (110ppm)	0405	145.0	4.000	126.8	14.58	7.708	35	1.25	289.32	0
289	Acid Soluble Mo (110ppm)	0220	147.5	5.000	126.8	14.58	7.708	35	1.42	289.32	0
289	Acid Soluble Mo (110ppm)	0433	152.0	16.00	126.8	14.58	7.708	35	1.73	289.30	0
289	Acid Soluble Mo (110ppm)	0042	164.7	11.94	126.8	14.58	7.708	35	2.60	289.99	0
289	Acid Soluble Mo (110ppm)	0543	183.0±	10.00	126.8	14.58	7.708	35	3.85	289.33	0
291	Acid Soluble Ni (ppm)	0563	2.850	0.1000	5.019	2.063	0.2379	20	-1.05	291.33	0
291	Acid Soluble Ni (ppm)	0572	2.935	0.2777	5.019	2.063	0.2379	20	-1.01	291.99	0
291	Acid Soluble Ni (ppm)	0524	3.016	0.1728	5.019	2.063	0.2379	20	-0.97	291.30	0
291	Acid Soluble Ni (ppm)	0220	3.250	0.1000	5.019	2.063	0.2379	20	-0.86	291.99	0
291	Acid Soluble Ni (ppm)	0220	3.300	0.4000	5.019	2.063	0.2379	20	-0.83	291.32	0
291	Acid Soluble Ni (ppm)	0624	3.525	0.2020	5.019	2.063	0.2379	20	-0.72	291.33	0
291	Acid Soluble Ni (ppm)	0368	3.650	0.5000	5.019	2.063	0.2379	20	-0.66	291.34	0
291	Acid Soluble Ni (ppm)	0523	3.877	0.1770	5.019	2.063	0.2379	20	-0.55	291.30	0
291	Acid Soluble Ni (ppm)	0394	4.206	0.1690	5.019	2.063	0.2379	20	-0.39	291.30	0
291	Acid Soluble Ni (ppm)	0630	4.549	0.0290	5.019	2.063	0.2379	20	-0.23	291.30	0
291	Acid Soluble Ni (ppm)	0605	4.580	0.2200	5.019	2.063	0.2379	20	-0.21	291.30	0
291	Acid Soluble Ni (ppm)	0405	5.000	0.0000	5.019	2.063	0.2379	20	-0.01	291.32	0
291	Acid Soluble Ni (ppm)	0037	5.525	0.5406	5.019	2.063	0.2379	20	0.25	291.33	0
291	Acid Soluble Ni (ppm)	0136	5.955	0.1900	5.019	2.063	0.2379	20	0.45	291.33	0
291	Acid Soluble Ni (ppm)	0035	6.120	0.2000	5.019	2.063	0.2379	20	0.53	291.30	0
291	Acid Soluble Ni (ppm)	0626	6.725	0.1100	5.019	2.063	0.2379	20	0.83	291.99	0
291	Acid Soluble Ni (ppm)	0626	7.425	1.050	5.019	2.063	0.2379	20	1.17	291.30	0
291	Acid Soluble Ni (ppm)	0086	7.675	0.4906	5.019	2.063	0.2379	20	1.29	291.33	0
291	Acid Soluble Ni (ppm)	0542	9.342	0.0920	5.019	2.063	0.2379	20	2.10	291.30	0
291	Acid Soluble Ni (ppm)	0527	9.870	0.0529	5.019	2.063	0.2379	20	2.35	291.33	0
291	Acid Soluble Ni (ppm)	0255	39.67	12.98	5.019	2.063	0.2379	20	16.79	291.99	1
291	Acid Soluble Ni (ppm)	0377	1.395	2.790	5.019	2.063	0.2379	20		291.30	4
291	Acid Soluble Ni (ppm)	0515	< 0.18		5.019	2.063	0.2379	20		291.33	5
291	Acid Soluble Ni (ppm)	0515	< 0.26		5.019	2.063	0.2379	20		291.34	5
301	Acid Soluble Se (ppm)	0394	0.2363	0.0445	0.6601	0.3440	0.0677	7	-1.23	301.33	0
301	Acid Soluble Se (ppm)	0524	0.4610	0.0305	0.6601	0.3440	0.0677	7	-0.58	301.30	0
301	Acid Soluble Se (ppm)	0523	0.4780	0.0360	0.6601	0.3440	0.0677	7	-0.53	301.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
301	Acid Soluble Se (ppm)	0563	0.6750	0.0100	0.6601	0.3440	0.0677	7	0.04	301.33	0
301	Acid Soluble Se (ppm)	0220	0.8000	0.2000	0.6601	0.3440	0.0677	7	0.41	301.32	0
301	Acid Soluble Se (ppm)	0220	0.8000	0.0000	0.6601	0.3440	0.0677	7	0.41	301.99	0
301	Acid Soluble Se (ppm)	0572	1.170	0.0851	0.6601	0.3440	0.0677	7	1.48	301.99	0
301	Acid Soluble Se (ppm)	0515	8.733	5.255	0.6601	0.3440	0.0677	7	23.47	301.34	1
301	Acid Soluble Se (ppm)	0255	0.0000	0.0000	0.6601	0.3440	0.0677	7		301.99	4
301	Acid Soluble Se (ppm)	0527	< 0.01		0.6601	0.3440	0.0677	7		301.33	5
301	Acid Soluble Se (ppm)	0515	< 0.226		0.6601	0.3440	0.0677	7		301.33	5
301	Acid Soluble Se (ppm)	0626	< 0.5		0.6601	0.3440	0.0677	7		301.34	5
301	Acid Soluble Se (ppm)	0368	< 1.6		0.6601	0.3440	0.0677	7		301.34	5
301	Acid Soluble Se (ppm)	0605	< 1.65		0.6601	0.3440	0.0677	7		301.30	5
301	Acid Soluble Se (ppm)	0405	< 10		0.6601	0.3440	0.0677	7		301.32	5
311	Sodium (%)	0527	0.2842	0.0075	0.2954	0.0136	0.0075	9	-0.76	311.33	0
311	Sodium (%)	0572	0.2854	0.0043	0.2954	0.0136	0.0075	9	-0.68	311.99	0
311	Sodium (%)	0035	0.2855	0.0170	0.2954	0.0136	0.0075	9	-0.67	311.33	0
311	Sodium (%)	0423	0.2920	0.0020	0.2954	0.0136	0.0075	9	-0.23	311.33	0
311	Sodium (%)	0624	0.2920	0.0040	0.2954	0.0136	0.0075	9	-0.23	311.33	0
311	Sodium (%)	0553	0.2930	0.0100	0.2954	0.0136	0.0075	9	-0.16	311.00	0
311	Sodium (%)	0542	0.2957	0.0056	0.2954	0.0136	0.0075	9	0.02	311.99	0
311	Sodium (%)	0354	0.3150	0.0100	0.2954	0.0136	0.0075	9	1.33	311.99	0
311	Sodium (%)	0563	0.3250	0.0100	0.2954	0.0136	0.0075	9	2.00	311.33	0
321	Acid Soluble Zn (%)	0234	0.0605	0.0004	0.0827	0.0085	0.0039	57	-2.62	321.30	0
321	Acid Soluble Zn (%)	0423	0.0640	0.0020	0.0827	0.0085	0.0039	57	-2.20	321.32	0
321	Acid Soluble Zn (%)	0136	0.0680	0.0020	0.0827	0.0085	0.0039	57	-1.73	321.33	0
321	Acid Soluble Zn (%)	0291	0.0700	0.0000	0.0827	0.0085	0.0039	57	-1.50	321.30	0
321	Acid Soluble Zn (%)	0444	0.0720	0.0040	0.0827	0.0085	0.0039	57	-1.26	321.30	0
321	Acid Soluble Zn (%)	0405	0.0729	0.0047	0.0827	0.0085	0.0039	57	-1.16	321.32	0
321	Acid Soluble Zn (%)	0624	0.0745	0.0010	0.0827	0.0085	0.0039	57	-0.96	321.33	0
321	Acid Soluble Zn (%)	0543	0.0750	0.0080	0.0827	0.0085	0.0039	57	-0.91	321.33	0
321	Acid Soluble Zn (%)	0354	0.0750	0.0100	0.0827	0.0085	0.0039	57	-0.91	321.30	0
321	Acid Soluble Zn (%)	0572	0.0755	0.0078	0.0827	0.0085	0.0039	57	-0.85	321.99	0
321	Acid Soluble Zn (%)	0255	0.0760	0.0000	0.0827	0.0085	0.0039	57	-0.79	321.30	0
321	Acid Soluble Zn (%)	0553	0.0770	0.0000	0.0827	0.0085	0.0039	57	-0.67	321.00	0
321	Acid Soluble Zn (%)	0042	0.0770	0.0000	0.0827	0.0085	0.0039	57	-0.67	321.99	0
321	Acid Soluble Zn (%)	0498	0.0775	0.0010	0.0827	0.0085	0.0039	57	-0.61	321.03	0
321	Acid Soluble Zn (%)	0609	0.0775	0.0030	0.0827	0.0085	0.0039	57	-0.61	321.33	0
321	Acid Soluble Zn (%)	0485	0.0779	0.0003	0.0827	0.0085	0.0039	57	-0.57	321.00	0
321	Acid Soluble Zn (%)	0040	0.0785	0.0030	0.0827	0.0085	0.0039	57	-0.49	321.00	0
321	Acid Soluble Zn (%)	0513	0.0790	0.0020	0.0827	0.0085	0.0039	57	-0.43	321.30	0
321	Acid Soluble Zn (%)	0542	0.0794	0.0015	0.0827	0.0085	0.0039	57	-0.39	321.99	0
321	Acid Soluble Zn (%)	0023	0.0795	0.0004	0.0827	0.0085	0.0039	57	-0.37	321.30	0
321	Acid Soluble Zn (%)	0559	0.0798	0.0001	0.0827	0.0085	0.0039	57	-0.34	321.99	0
321	Acid Soluble Zn (%)	0086	0.0798	0.0013	0.0827	0.0085	0.0039	57	-0.34	321.33	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321	Acid Soluble Zn (%)	0562	0.0798	0.0002	0.0827	0.0085	0.0039	57	-0.34	321.99	0
321	Acid Soluble Zn (%)	0231	0.0800	0.0000	0.0827	0.0085	0.0039	57	-0.32	321.30	0
321	Acid Soluble Zn (%)	0472	0.0800	0.0000	0.0827	0.0085	0.0039	57	-0.32	321.33	0
321	Acid Soluble Zn (%)	0324	0.0805	0.0050	0.0827	0.0085	0.0039	57	-0.26	321.30	0
321	Acid Soluble Zn (%)	0106	0.0810	0.0018	0.0827	0.0085	0.0039	57	-0.20	321.33	0
321	Acid Soluble Zn (%)	0527	0.0812	0.0013	0.0827	0.0085	0.0039	57	-0.18	321.33	0
321	Acid Soluble Zn (%)	0027	0.0815	0.0010	0.0827	0.0085	0.0039	57	-0.14	321.99	0
321	Acid Soluble Zn (%)	0368	0.0817	0.0033	0.0827	0.0085	0.0039	57	-0.12	321.99	0
321	Acid Soluble Zn (%)	0037	0.0820	0.0115	0.0827	0.0085	0.0039	57	-0.09	321.33	0
321	Acid Soluble Zn (%)	0626	0.0825	0.0030	0.0827	0.0085	0.0039	57	-0.02	321.00	0
321	Acid Soluble Zn (%)	0524	0.0830	0.0004	0.0827	0.0085	0.0039	57	0.04	321.99	0
321	Acid Soluble Zn (%)	0049	0.0830	0.0020	0.0827	0.0085	0.0039	57	0.04	321.30	0
321	Acid Soluble Zn (%)	0394	0.0832	0.0045	0.0827	0.0085	0.0039	57	0.06	321.33	0
321	Acid Soluble Zn (%)	0029	0.0833	0.0037	0.0827	0.0085	0.0039	57	0.07	321.00	0
321	Acid Soluble Zn (%)	0630	0.0833	0.0049	0.0827	0.0085	0.0039	57	0.07	321.33	0
321	Acid Soluble Zn (%)	0220	0.0835	0.0010	0.0827	0.0085	0.0039	57	0.10	321.32	0
321	Acid Soluble Zn (%)	0035	0.0850	0.0065	0.0827	0.0085	0.0039	57	0.27	321.30	0
321	Acid Soluble Zn (%)	0626	0.0860	0.0020	0.0827	0.0085	0.0039	57	0.39	321.33	0
321	Acid Soluble Zn (%)	0452	0.0870	0.0040	0.0827	0.0085	0.0039	57	0.51	321.33	0
321	Acid Soluble Zn (%)	0377	0.0878	0.0055	0.0827	0.0085	0.0039	57	0.60	321.30	0
321	Acid Soluble Zn (%)	0523	0.0880	0.0160	0.0827	0.0085	0.0039	57	0.63	321.99	0
321	Acid Soluble Zn (%)	0451	0.0896	0.0019	0.0827	0.0085	0.0039	57	0.81	321.30	0
321	Acid Soluble Zn (%)	0292	0.0900	0.0000	0.0827	0.0085	0.0039	57	0.86	321.30	0
321	Acid Soluble Zn (%)	0055	0.0900	0.0080	0.0827	0.0085	0.0039	57	0.86	321.33	0
321	Acid Soluble Zn (%)	0421	0.0900	0.0000	0.0827	0.0085	0.0039	57	0.86	321.33	0
321	Acid Soluble Zn (%)	0095	0.0918	0.0003	0.0827	0.0085	0.0039	57	1.07	321.32	0
321	Acid Soluble Zn (%)	0515	0.0934	0.0019	0.0827	0.0085	0.0039	57	1.26	321.33	0
321	Acid Soluble Zn (%)	0043	0.0949	0.0045	0.0827	0.0085	0.0039	57	1.44	321.33	0
321	Acid Soluble Zn (%)	0360	0.0950	0.0100	0.0827	0.0085	0.0039	57	1.45	321.30	0
321	Acid Soluble Zn (%)	0612	0.0950	0.0020	0.0827	0.0085	0.0039	57	1.45	321.33	0
321	Acid Soluble Zn (%)	0605	0.0950	0.0100	0.0827	0.0085	0.0039	57	1.45	321.99	0
321	Acid Soluble Zn (%)	0563	0.1000	0.0000	0.0827	0.0085	0.0039	57	2.04	321.33	0
321	Acid Soluble Zn (%)	0587	0.1050	0.0100	0.0827	0.0085	0.0039	57	2.63	321.99	0
321	Acid Soluble Zn (%)	0515	0.1093	0.0217	0.0827	0.0085	0.0039	57	3.14	321.99	0
321	Acid Soluble Zn (%)	0433	0.1350	0.0100	0.0827	0.0085	0.0039	57	6.17	321.30	0
321	Acid Soluble Zn (%)	0552	0.1050	0.1100	0.0827	0.0085	0.0039	57	2.63	321.30	1
321	Acid Soluble Zn (%)	0389	0.8400	0.0000	0.0827	0.0085	0.0039	57	89.35	321.99	2
325	Water Soluble Zn (%)	0394	0.0492	0.0009	0.0614	0.0115	0.0047	7	-0.96	325.30	0
325	Water Soluble Zn (%)	0626	0.0530	0.0020	0.0614	0.0115	0.0047	7	-0.66	325.00	0
325	Water Soluble Zn (%)	0626	0.0555	0.0010	0.0614	0.0115	0.0047	7	-0.46	325.30	0
325	Water Soluble Zn (%)	0619	0.0600	0.0120	0.0614	0.0115	0.0047	7	-0.11	325.99	0
325	Water Soluble Zn (%)	0619	0.0650	0.0020	0.0614	0.0115	0.0047	7	0.29	325.30	0
325	Water Soluble Zn (%)	0572	0.0684	0.0097	0.0614	0.0115	0.0047	7	0.55	325.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
325	Water Soluble Zn (%)	0485	0.0792	0.0052	0.0614	0.0115	0.0047	7	1.41	325.00	0
431	Soluble Si in nonliquids (%)	0572	< 0.0066					0		431.99	5

Interpreting Z Scores and Flags:

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier, 3 = removed from stats, 4 = rejected due to 0s submitted and 5 = LOD. A 9 flag indicates a data problem - scores not calculated.

Notes:

Robust statistics not used if < 6 labs used in calculations, in this case Values and Z Scores are grayed out and should be interpreted with extreme caution. Your offset values are higher (‡) or lower (†) than the Robust Analyte value ± Investigational Allowance. Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for the purpose of this Proficiency Testing program.