

# magruder fertilizer

## check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

# Methods: 149

Sample # 180211

Lab Values

# Labs Reporting: 100

Grade 14-14-14

Issue Date : 03/31/2018

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0117	12.14	0.1000	13.46	0.5385	0.0742	10	-2.28	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0309	12.68	0.1400	13.46	0.5385	0.0742	10	-1.35	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0444	13.38	0.2200	13.46	0.5385	0.0742	10	-0.14	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0177	13.42	0.0022	13.46	0.5385	0.0742	10	-0.07	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0486	13.44	0.0500	13.46	0.5385	0.0742	10	-0.04	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0169	13.52	0.0000	13.46	0.5385	0.0742	10	0.10	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0451	13.67	0.0900	13.46	0.5385	0.0742	10	0.36	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0531	13.91	0.0100	13.46	0.5385	0.0742	10	0.77	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0536	13.96	0.0800	13.46	0.5385	0.0742	10	0.86	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0535	13.98	0.0500	13.46	0.5385	0.0742	10	0.89	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0230	14.40	1.000	13.46	0.5385	0.0742	10	1.62	NA	1
001.99	Ammoniacal Nitrogen, Other (%)	0368	13.06	0.1000	13.81	0.3620	0.0966	24	-2.07	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0524	13.24	0.1100	13.81	0.3620	0.0966	24	-1.59	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0544	13.39	0.0100	13.81	0.3620	0.0966	24	-1.18	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0546	13.42	0.0900	13.81	0.3620	0.0966	24	-1.09	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0027	13.53	0.2500	13.81	0.3620	0.0966	24	-0.79	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0394	13.54	0.2190	13.81	0.3620	0.0966	24	-0.75	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0255	13.63	0.2900	13.81	0.3620	0.0966	24	-0.51	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0405	13.66	0.0500	13.81	0.3620	0.0966	24	-0.43	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0096	13.69	0.1500	13.81	0.3620	0.0966	24	-0.35	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0416	13.70	0.0100	13.81	0.3620	0.0966	24	-0.32	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0533	13.72	0.1200	13.81	0.3620	0.0966	24	-0.25	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0522	13.78	0.0400	13.81	0.3620	0.0966	24	-0.08	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0541	13.83	0.3200	13.81	0.3620	0.0966	24	0.05	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0531	13.93	0.0200	13.81	0.3620	0.0966	24	0.33	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0538	13.93	0.0400	13.81	0.3620	0.0966	24	0.33	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0536	13.97	0.0600	13.81	0.3620	0.0966	24	0.44	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0550	13.98	0.0100	13.81	0.3620	0.0966	24	0.45	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0537	14.01	0.1300	13.81	0.3620	0.0966	24	0.54	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0535	14.02	0.0600	13.81	0.3620	0.0966	24	0.58	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0539	14.08	0.0500	13.81	0.3620	0.0966	24	0.73	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0519	14.21	0.0100	13.81	0.3620	0.0966	24	1.09	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0532	14.25	0.1300	13.81	0.3620	0.0966	24	1.20	NA	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
001.99	Ammoniacal Nitrogen, Other (%)	0545	14.61	0.0500	13.81	0.3620	0.0966	24	2.19	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0506	14.90	0.0000	13.81	0.3620	0.0966	24	3.01	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0511	7.690	0.0000	13.81	0.3620	0.0966	24	-16.91	NA	2
002.99	Nitrate Nitrogen, Other (%)	0511	0.0500	0.0000				1			0
003.10	Water Insoluble Nitrogen, Method I (%)	0511	0.0000	0.0000				0			4
010.10	Total Nitrogen, Reduced Iron (14%)	0452	14.00	0.1000				1			0
010.11	Total Nitrogen, Modified Comprehensive (14%)	0309	12.44	0.2100	13.86	0.2866	0.0850	6	-4.43	Low	0
010.11	Total Nitrogen, Modified Comprehensive (14%)	0105	13.74	0.0200	13.86	0.2866	0.0850	6	-0.37	OK	0
010.11	Total Nitrogen, Modified Comprehensive (14%)	0549	13.89	0.0300	13.86	0.2866	0.0850	6	0.08	OK	0
010.11	Total Nitrogen, Modified Comprehensive (14%)	0531	13.92	0.0100	13.86	0.2866	0.0850	6	0.17	OK	0
010.11	Total Nitrogen, Modified Comprehensive (14%)	0114	14.04	0.1400	13.86	0.2866	0.0850	6	0.56	OK	0
010.11	Total Nitrogen, Modified Comprehensive (14%)	0535	14.15	0.1000	13.86	0.2866	0.0850	6	0.90	OK	0
010.12	Total Nitrogen, Salicylic (14%)	0117	13.00	0.2000				2			0
010.12	Total Nitrogen, Salicylic (14%)	0397	13.67	0.1370				2			0
010.60	Total Nitrogen, Combustion (14%)	0521	13.31	0.0000	13.83	0.1696	0.1101	60	-3.10	OK	0
010.60	Total Nitrogen, Combustion (14%)	0027	13.45	0.4000	13.83	0.1696	0.1101	60	-2.26	OK	0
010.60	Total Nitrogen, Combustion (14%)	0029	13.46	0.0500	13.83	0.1696	0.1101	60	-2.23	OK	0
010.60	Total Nitrogen, Combustion (14%)	0421	13.52	0.1900	13.83	0.1696	0.1101	60	-1.88	OK	0
010.60	Total Nitrogen, Combustion (14%)	0041	13.59	0.0800	13.83	0.1696	0.1101	60	-1.43	OK	0
010.60	Total Nitrogen, Combustion (14%)	0043	13.61	0.0700	13.83	0.1696	0.1101	60	-1.35	OK	0
010.60	Total Nitrogen, Combustion (14%)	0034	13.62	0.0900	13.83	0.1696	0.1101	60	-1.29	OK	0
010.60	Total Nitrogen, Combustion (14%)	0157	13.65	0.1000	13.83	0.1696	0.1101	60	-1.08	OK	0
010.60	Total Nitrogen, Combustion (14%)	0368	13.67	0.2230	13.83	0.1696	0.1101	60	-0.94	OK	0
010.60	Total Nitrogen, Combustion (14%)	0389	13.69	0.0100	13.83	0.1696	0.1101	60	-0.87	OK	0
010.60	Total Nitrogen, Combustion (14%)	0055	13.69	0.5400	13.83	0.1696	0.1101	60	-0.84	OK	0
010.60	Total Nitrogen, Combustion (14%)	0095	13.69	0.0400	13.83	0.1696	0.1101	60	-0.84	OK	0
010.60	Total Nitrogen, Combustion (14%)	0543	13.71	0.0240	13.83	0.1696	0.1101	60	-0.73	OK	0
010.60	Total Nitrogen, Combustion (14%)	0231	13.72	0.0600	13.83	0.1696	0.1101	60	-0.67	OK	0
010.60	Total Nitrogen, Combustion (14%)	0177	13.74	0.0300	13.83	0.1696	0.1101	60	-0.58	OK	0
010.60	Total Nitrogen, Combustion (14%)	0007	13.75	0.1000	13.83	0.1696	0.1101	60	-0.49	OK	0
010.60	Total Nitrogen, Combustion (14%)	0482	13.75	0.1000	13.83	0.1696	0.1101	60	-0.49	OK	0
010.60	Total Nitrogen, Combustion (14%)	0102	13.76	0.0500	13.83	0.1696	0.1101	60	-0.46	OK	0
010.60	Total Nitrogen, Combustion (14%)	0105	13.76	0.0100	13.83	0.1696	0.1101	60	-0.46	OK	0
010.60	Total Nitrogen, Combustion (14%)	0451	13.77	0.0200	13.83	0.1696	0.1101	60	-0.37	OK	0
010.60	Total Nitrogen, Combustion (14%)	0472	13.78	0.0700	13.83	0.1696	0.1101	60	-0.34	OK	0
010.60	Total Nitrogen, Combustion (14%)	0049	13.78	0.0800	13.83	0.1696	0.1101	60	-0.31	OK	0
010.60	Total Nitrogen, Combustion (14%)	0073	13.79	0.0100	13.83	0.1696	0.1101	60	-0.28	OK	0
010.60	Total Nitrogen, Combustion (14%)	0483	13.79	0.0000	13.83	0.1696	0.1101	60	-0.26	OK	0
010.60	Total Nitrogen, Combustion (14%)	0324	13.80	0.2000	13.83	0.1696	0.1101	60	-0.20	OK	0
010.60	Total Nitrogen, Combustion (14%)	0405	13.80	0.0200	13.83	0.1696	0.1101	60	-0.20	OK	0
010.60	Total Nitrogen, Combustion (14%)	0516	13.80	0.0000	13.83	0.1696	0.1101	60	-0.20	OK	0
010.60	Total Nitrogen, Combustion (14%)	0542	13.80	0.1380	13.83	0.1696	0.1101	60	-0.18	OK	0
010.60	Total Nitrogen, Combustion (14%)	0136	13.83	0.0100	13.83	0.1696	0.1101	60	-0.05	OK	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
010.60	Total Nitrogen, Combustion (14%)	0042	13.84	0.1900	13.83	0.1696	0.1101	60	0.01	OK	0
010.60	Total Nitrogen, Combustion (14%)	0360	13.84	0.0500	13.83	0.1696	0.1101	60	0.01	OK	0
010.60	Total Nitrogen, Combustion (14%)	0096	13.84	0.0200	13.83	0.1696	0.1101	60	0.04	OK	0
010.60	Total Nitrogen, Combustion (14%)	0234	13.84	0.0400	13.83	0.1696	0.1101	60	0.04	OK	0
010.60	Total Nitrogen, Combustion (14%)	0547	13.84	0.0600	13.83	0.1696	0.1101	60	0.04	OK	0
010.60	Total Nitrogen, Combustion (14%)	0325	13.85	0.3000	13.83	0.1696	0.1101	60	0.10	OK	0
010.60	Total Nitrogen, Combustion (14%)	0040	13.85	0.1000	13.83	0.1696	0.1101	60	0.10	OK	0
010.60	Total Nitrogen, Combustion (14%)	0230	13.85	0.1000	13.83	0.1696	0.1101	60	0.10	OK	0
010.60	Total Nitrogen, Combustion (14%)	0390	13.86	0.0000	13.83	0.1696	0.1101	60	0.16	OK	0
010.60	Total Nitrogen, Combustion (14%)	0356	13.88	0.1800	13.83	0.1696	0.1101	60	0.28	OK	0
010.60	Total Nitrogen, Combustion (14%)	0037	13.88	0.1700	13.83	0.1696	0.1101	60	0.29	OK	0
010.60	Total Nitrogen, Combustion (14%)	0292	13.89	0.0300	13.83	0.1696	0.1101	60	0.30	OK	0
010.60	Total Nitrogen, Combustion (14%)	0494	13.89	0.1300	13.83	0.1696	0.1101	60	0.30	OK	0
010.60	Total Nitrogen, Combustion (14%)	0035	13.89	0.2400	13.83	0.1696	0.1101	60	0.33	OK	0
010.60	Total Nitrogen, Combustion (14%)	0377	13.90	0.0400	13.83	0.1696	0.1101	60	0.39	OK	0
010.60	Total Nitrogen, Combustion (14%)	0523	13.90	0.0000	13.83	0.1696	0.1101	60	0.39	OK	0
010.60	Total Nitrogen, Combustion (14%)	0423	13.94	0.0100	13.83	0.1696	0.1101	60	0.60	OK	0
010.60	Total Nitrogen, Combustion (14%)	0501	13.95	0.0700	13.83	0.1696	0.1101	60	0.66	OK	0
010.60	Total Nitrogen, Combustion (14%)	0307	13.97	0.0600	13.83	0.1696	0.1101	60	0.81	OK	0
010.60	Total Nitrogen, Combustion (14%)	0025	13.99	0.0700	13.83	0.1696	0.1101	60	0.89	OK	0
010.60	Total Nitrogen, Combustion (14%)	0527	13.99	0.0320	13.83	0.1696	0.1101	60	0.90	OK	0
010.60	Total Nitrogen, Combustion (14%)	0291	14.00	0.0100	13.83	0.1696	0.1101	60	0.95	OK	0
010.60	Total Nitrogen, Combustion (14%)	0185	14.05	0.1800	13.83	0.1696	0.1101	60	1.28	OK	0
010.60	Total Nitrogen, Combustion (14%)	0485	14.08	0.4546	13.83	0.1696	0.1101	60	1.44	OK	0
010.60	Total Nitrogen, Combustion (14%)	0354	14.15	0.1000	13.83	0.1696	0.1101	60	1.87	OK	0
010.60	Total Nitrogen, Combustion (14%)	0534	14.20	0.0900	13.83	0.1696	0.1101	60	2.13	OK	0
010.60	Total Nitrogen, Combustion (14%)	0550	14.22	0.1300	13.83	0.1696	0.1101	60	2.25	OK	0
010.60	Total Nitrogen, Combustion (14%)	0511	14.22	0.0000	13.83	0.1696	0.1101	60	2.28	OK	0
010.60	Total Nitrogen, Combustion (14%)	0402	14.32	0.3200	13.83	0.1696	0.1101	60	2.87	OK	0
010.60	Total Nitrogen, Combustion (14%)	0443	14.39	0.1400	13.83	0.1696	0.1101	60	3.28	OK	0
010.60	Total Nitrogen, Combustion (14%)	0255	14.47	0.5740	13.83	0.1696	0.1101	60	3.74	High	0
010.60	Total Nitrogen, Combustion (14%)	0023	14.48	0.7470	13.83	0.1696	0.1101	60	3.82	High	1
010.99	Total Nitrogen, Other (14%)	0493	13.40	0.1000	14.07	0.5165	0.1316	7	-1.17	Low	0
010.99	Total Nitrogen, Other (14%)	0300	13.70	0.0100	14.07	0.5165	0.1316	7	-0.65	OK	0
010.99	Total Nitrogen, Other (14%)	0524	13.90	0.0200	14.07	0.5165	0.1316	7	-0.29	OK	0
010.99	Total Nitrogen, Other (14%)	0518	14.07	0.2600	14.07	0.5165	0.1316	7	0.00	OK	0
010.99	Total Nitrogen, Other (14%)	0519	14.17	0.1000	14.07	0.5165	0.1316	7	0.18	OK	0
010.99	Total Nitrogen, Other (14%)	0476	14.54	0.0309	14.07	0.5165	0.1316	7	0.82	OK	0
010.99	Total Nitrogen, Other (14%)	0506	14.70	0.4000	14.07	0.5165	0.1316	7	1.11	High	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0444	14.35	0.0500	14.67	0.2507	0.1050	4	-1.30		0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0105	14.64	0.2200	14.67	0.2507	0.1050	4	-0.12		0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0493	14.75	0.1000	14.67	0.2507	0.1050	4	0.32		0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0114	14.95	0.0500	14.67	0.2507	0.1050	4	1.10		0

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			Value	Range	Rob Mean	Rob SD	R-bar				
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0476	13.98	0.2246	14.74	0.3790	0.1181	18	-2.01	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0534	14.21	0.1200	14.74	0.3790	0.1181	18	-1.41	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0027	14.39	0.0300	14.74	0.3790	0.1181	18	-0.95	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0415	14.40	0.0045	14.74	0.3790	0.1181	18	-0.90	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0550	14.48	0.1000	14.74	0.3790	0.1181	18	-0.70	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0547	14.55	0.1000	14.74	0.3790	0.1181	18	-0.51	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0169	14.70	0.0400	14.74	0.3790	0.1181	18	-0.11	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0356	14.71	0.1700	14.74	0.3790	0.1181	18	-0.10	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0231	14.74	0.0400	14.74	0.3790	0.1181	18	-0.01	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0324	14.80	0.4000	14.74	0.3790	0.1181	18	0.15	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0292	14.81	0.0700	14.74	0.3790	0.1181	18	0.16	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0516	14.81	0.1300	14.74	0.3790	0.1181	18	0.16	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0394	14.89	0.0860	14.74	0.3790	0.1181	18	0.38	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0300	14.96	0.1200	14.74	0.3790	0.1181	18	0.57	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0522	15.02	0.1500	14.74	0.3790	0.1181	18	0.72	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0309	15.21	0.0400	14.74	0.3790	0.1181	18	1.23	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0541	15.24	0.2600	14.74	0.3790	0.1181	18	1.31	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0416	15.31	0.0400	14.74	0.3790	0.1181	18	1.49	NA	0
020.40	Total Phosphorus as P2O5, Automated (%)	0096	14.44	0.0000	14.66	0.2338	0.1367	3	-0.93		0
020.40	Total Phosphorus as P2O5, Automated (%)	0105	14.63	0.0800	14.66	0.2338	0.1367	3	-0.12		0
020.40	Total Phosphorus as P2O5, Automated (%)	0035	14.91	0.3300	14.66	0.2338	0.1367	3	1.06		0
020.50	Total Phosphorus as P2O5, ICP (%)	0389	13.68	0.2100	14.67	0.7249	0.1949	23	-1.37	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0521	13.68	0.0000	14.67	0.7249	0.1949	23	-1.36	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0472	13.83	0.0400	14.67	0.7249	0.1949	23	-1.16	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0501	14.01	0.0800	14.67	0.7249	0.1949	23	-0.91	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0542	14.03	0.3428	14.67	0.7249	0.1949	23	-0.88	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0523	14.10	0.2000	14.67	0.7249	0.1949	23	-0.79	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0527	14.13	0.0700	14.67	0.7249	0.1949	23	-0.75	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0444	14.26	0.0900	14.67	0.7249	0.1949	23	-0.57	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0234	14.41	0.6800	14.67	0.7249	0.1949	23	-0.36	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0421	14.50	0.2000	14.67	0.7249	0.1949	23	-0.23	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0291	14.68	0.0100	14.67	0.7249	0.1949	23	0.01	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0451	14.72	0.3400	14.67	0.7249	0.1949	23	0.07	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0042	14.74	0.3300	14.67	0.7249	0.1949	23	0.09	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0390	14.83	0.3200	14.67	0.7249	0.1949	23	0.22	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0482	14.85	0.1000	14.67	0.7249	0.1949	23	0.25	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0402	15.04	0.3000	14.67	0.7249	0.1949	23	0.51	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0546	15.12	0.0280	14.67	0.7249	0.1949	23	0.62	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0423	15.13	0.1500	14.67	0.7249	0.1949	23	0.63	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0511	15.28	0.0000	14.67	0.7249	0.1949	23	0.84	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0433	15.41	0.1000	14.67	0.7249	0.1949	23	1.02	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0368	15.50	0.4322	14.67	0.7249	0.1949	23	1.14	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0524	16.14	0.1604	14.67	0.7249	0.1949	23	2.03	NA	0



Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
020.50	Total Phosphorus as P2O5, ICP (%)	0307	16.33	0.3000	14.67	0.7249	0.1949	23	2.29	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0255	15.89	1.417	14.67	0.7249	0.1949	23	1.68	NA	1
020.50	Total Phosphorus as P2O5, ICP (%)	0483	15.92	1.450	14.67	0.7249	0.1949	23	1.72	NA	1
020.99	Total Phosphorus as P2O5, Other (%)	0515	13.83	2.946	15.35	1.943	1.005	3	-0.78		0
020.99	Total Phosphorus as P2O5, Other (%)	0455	14.69	0.0700	15.35	1.943	1.005	3	-0.34		0
020.99	Total Phosphorus as P2O5, Other (%)	0443	17.54	0.0000	15.35	1.943	1.005	3	1.13		0
030.20	Citrate Insoluble Phosphorus as P2O5, Spectro... (%)	0506	14.25	0.7000				1			0
030.40	Citrate Insoluble Phosphorus as P2O5, Automat... (%)	0096	0.0700	0.0600				1			0
040.20	Indirect Available Phosphorus as P2O5, Spectr... (14%)	0300	14.96	0.1200				1			0
040.40	Indirect Available Phosphorus as P2O5, Automa... (14%)	0096	14.38	0.0700				1			0
040.99	Indirect Available Phosphorus as P2O5, Other (14%)	0394	14.79	0.0910				1			0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0494	14.35	0.4100	14.54	0.1712	0.2595	5	-1.16		0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0041	14.39	0.2900	14.54	0.1712	0.2595	5	-0.92		0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0049	14.58	0.3600	14.54	0.1712	0.2595	5	0.21		0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0055	14.69	0.0200	14.54	0.1712	0.2595	5	0.86		0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0177	14.72	0.2173	14.54	0.1712	0.2595	5	1.01		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0522	14.16	0.0200	14.46	0.3709	0.1478	4	-0.81		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0185	14.22	0.2400	14.46	0.3709	0.1478	4	-0.64		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0105	14.48	0.2600	14.46	0.3709	0.1478	4	0.06		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0485	14.97	0.0710	14.46	0.3709	0.1478	4	1.39		0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (14%)	0535	14.25	0.1000				2			0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (14%)	0027	14.75	0.3000				2			0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (14%)	0522	14.07	0.1000	14.45	0.3474	0.1210	4	-1.10		0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (14%)	0535	14.25	0.1000	14.45	0.3474	0.1210	4	-0.58		0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (14%)	0394	14.69	0.1540	14.45	0.3474	0.1210	4	0.69		0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (14%)	0544	14.80	0.1300	14.45	0.3474	0.1210	4	0.99		0
041.50	Direct Available Phosphorus as P2O5, ICP (14%)	0325	14.45	0.1000	14.92	0.4813	0.0487	3	-0.97		0
041.50	Direct Available Phosphorus as P2O5, ICP (14%)	0452	14.89	0.0100	14.92	0.4813	0.0487	3	-0.06		0
041.50	Direct Available Phosphorus as P2O5, ICP (14%)	0368	15.41	0.0360	14.92	0.4813	0.0487	3	1.03		0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0423	12.98	0.2600	14.36	0.4084	0.1400	10	-3.13	Low	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0511	14.02	0.0000	14.36	0.4084	0.1400	10	-0.77	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0043	14.11	0.0300	14.36	0.4084	0.1400	10	-0.57	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0377	14.17	0.0400	14.36	0.4084	0.1400	10	-0.42	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0117	14.33	0.2700	14.36	0.4084	0.1400	10	-0.07	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0023	14.40	0.0300	14.36	0.4084	0.1400	10	0.09	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0040	14.50	0.2000	14.36	0.4084	0.1400	10	0.33	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0025	14.64	0.0700	14.36	0.4084	0.1400	10	0.63	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0360	14.73	0.2400	14.36	0.4084	0.1400	10	0.85	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0037	14.94	0.2600	14.36	0.4084	0.1400	10	1.33	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0494	14.51	0.8100	14.36	0.4084	0.1400	10	0.34	OK	1
041.60	Direct Available Phosphorus as P2O5, Citrate-... (14%)	0230	13.60	0.0000	14.45	0.3658	0.1230	13	-2.33	Low	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (14%)	0472	13.64	0.0200	14.45	0.3658	0.1230	13	-2.22	Low	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (14%)	0397	14.18	0.2170	14.45	0.3658	0.1230	13	-0.75	OK	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0354	14.35	0.1000	14.45	0.3658	0.1230	13	-0.28	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0073	14.37	0.4300	14.45	0.3658	0.1230	13	-0.24	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0055	14.46	0.2000	14.45	0.3658	0.1230	13	0.02	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0177	14.50	0.0124	14.45	0.3658	0.1230	13	0.14	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0105	14.52	0.1400	14.45	0.3658	0.1230	13	0.19	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0486	14.55	0.1000	14.45	0.3658	0.1230	13	0.27	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0231	14.59	0.0800	14.45	0.3658	0.1230	13	0.38	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0029	14.74	0.1400	14.45	0.3658	0.1230	13	0.79	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0034	14.82	0.0490	14.45	0.3658	0.1230	13	1.00	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0136	15.01	0.1100	14.45	0.3658	0.1230	13	1.51	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0519	13.91	0.0200	14.19	0.1799	0.1185	13	-1.58	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0539	14.00	0.0400	14.19	0.1799	0.1185	13	-1.08	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0526	14.03	0.0000	14.19	0.1799	0.1185	13	-0.91	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0532	14.07	0.1900	14.19	0.1799	0.1185	13	-0.72	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0531	14.14	0.0600	14.19	0.1799	0.1185	13	-0.30	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0549	14.18	0.0500	14.19	0.1799	0.1185	13	-0.11	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0518	14.20	0.2000	14.19	0.1799	0.1185	13	0.03	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0535	14.25	0.1000	14.19	0.1799	0.1185	13	0.31	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0538	14.25	0.2000	14.19	0.1799	0.1185	13	0.31	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0533	14.34	0.2700	14.19	0.1799	0.1185	13	0.78	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0537	14.34	0.2000	14.19	0.1799	0.1185	13	0.81	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0536	14.35	0.1600	14.19	0.1799	0.1185	13	0.87	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0545	14.73	0.0500	14.19	0.1799	0.1185	13	2.95	OK	0
048.10	Water Soluble Phosphorus as P2O5, Gravimetric... (%)	0444	13.13	0.1700				1			0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0309	13.22	0.0400				2			0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0522	13.51	0.2200				2			0
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	0096	13.09	0.1900				1			0
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	0444	13.07	0.1100				2			0
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	0543	13.84	1.133				2			0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0114	13.74	0.1100	14.52	0.3421	0.0500	11	-2.14	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0522	13.86	0.1100	14.52	0.3421	0.0500	11	-1.81	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0544	14.46	0.0200	14.52	0.3421	0.0500	11	-0.15	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0416	14.47	0.0500	14.52	0.3421	0.0500	11	-0.14	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0405	14.50	0.0500	14.52	0.3421	0.0500	11	-0.06	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0231	14.57	0.0500	14.52	0.3421	0.0500	11	0.13	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0220	14.58	0.0100	14.52	0.3421	0.0500	11	0.16	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0055	14.61	0.0800	14.52	0.3421	0.0500	11	0.26	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0550	14.66	0.0500	14.52	0.3421	0.0500	11	0.38	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0049	14.86	0.0100	14.52	0.3421	0.0500	11	0.93	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0494	15.00	0.0100	14.52	0.3421	0.0500	11	1.31	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0040	14.00	0.0000	14.62	0.6853	0.1683	7	-0.82	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0309	14.06	0.3300	14.62	0.6853	0.1683	7	-0.74	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0136	14.32	0.0800	14.62	0.6853	0.1683	7	-0.39	OK	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0356	14.33	0.1200	14.62	0.6853	0.1683	7	-0.38	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0157	14.95	0.1000	14.62	0.6853	0.1683	7	0.44	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0415	15.05	0.0483	14.62	0.6853	0.1683	7	0.57	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0073	15.63	0.5000	14.62	0.6853	0.1683	7	1.33	High	0
050.31	Soluble Potassium as K2O, AA (Citrate) (14%)	0472	10.50	0.7900				1			0
050.32	Soluble Potassium as K2O, AA (Citrate-EDTA) (14%)	0185	15.11	0.0500				1			0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	0390	13.68	0.1500	14.31	0.3458	0.3665	6	-1.63	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	0543	14.22	1.119	14.31	0.3458	0.3665	6	-0.24	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	0292	14.23	0.0100	14.31	0.3458	0.3665	6	-0.22	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	0055	14.44	0.2100	14.31	0.3458	0.3665	6	0.33	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	0324	14.55	0.7000	14.31	0.3458	0.3665	6	0.62	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	0444	14.64	0.0100	14.31	0.3458	0.3665	6	0.84	OK	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (14%)	0547	14.13	0.0500	15.01	0.9145	0.0140	5	-0.96		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (14%)	0511	14.21	0.0000	15.01	0.9145	0.0140	5	-0.87		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (14%)	0452	15.16	0.0100	15.01	0.9145	0.0140	5	0.16		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (14%)	0291	15.17	0.0100	15.01	0.9145	0.0140	5	0.17		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (14%)	0483	16.38	0.0000	15.01	0.9145	0.0140	5	1.50		0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0486	13.74	0.2300	14.52	0.5468	0.2558	12	-1.43	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0485	13.95	0.2200	14.52	0.5468	0.2558	12	-1.04	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0494	14.20	0.3800	14.52	0.5468	0.2558	12	-0.58	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0037	14.34	0.0600	14.52	0.5468	0.2558	12	-0.32	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0117	14.34	0.4800	14.52	0.5468	0.2558	12	-0.32	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0023	14.48	0.7900	14.52	0.5468	0.2558	12	-0.08	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0360	14.52	0.0700	14.52	0.5468	0.2558	12	0.00	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0043	14.54	0.0300	14.52	0.5468	0.2558	12	0.03	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0377	14.59	0.1300	14.52	0.5468	0.2558	12	0.13	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0354	14.85	0.1000	14.52	0.5468	0.2558	12	0.61	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0025	15.39	0.3600	14.52	0.5468	0.2558	12	1.60	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0423	18.24	0.2200	14.52	0.5468	0.2558	12	6.81	High	0
050.60	Soluble Potassium as K2O, Flame Photometric ... (14%)	0105	14.34	0.0600	15.27	1.274	0.1420	5	-0.73		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (14%)	0041	14.72	0.1600	15.27	1.274	0.1420	5	-0.43		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (14%)	0169	14.74	0.1000	15.27	1.274	0.1420	5	-0.42		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (14%)	0455	15.05	0.1000	15.27	1.274	0.1420	5	-0.17		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (14%)	0443	17.51	0.2900	15.27	1.274	0.1420	5	1.75		0
050.61	Soluble Potassium as K2O, Flame Photometric ... (14%)	0535	14.55	0.1000				2			0
050.61	Soluble Potassium as K2O, Flame Photometric ... (14%)	0035	14.82	0.0200				2			0
050.62	Soluble Potassium as K2O, Flame Photometric ... (14%)	0105	14.58	0.0500	14.74	0.2092	0.2818	4	-0.81		0
050.62	Soluble Potassium as K2O, Flame Photometric ... (14%)	0034	14.64	0.0270	14.74	0.2092	0.2818	4	-0.51		0
050.62	Soluble Potassium as K2O, Flame Photometric ... (14%)	0029	14.72	0.4200	14.74	0.2092	0.2818	4	-0.12		0
050.62	Soluble Potassium as K2O, Flame Photometric ... (14%)	0095	15.05	0.6300	14.74	0.2092	0.2818	4	1.44		0
050.99	Soluble Potassium as K2O, Other (14%)	0506	13.75	0.3000	14.52	0.5704	0.1755	39	-1.34	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0521	13.77	0.0000	14.52	0.5704	0.1755	39	-1.31	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0523	13.90	0.4000	14.52	0.5704	0.1755	39	-1.08	OK	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
050.99	Soluble Potassium as K2O, Other (14%)	0518	13.91	0.2100	14.52	0.5704	0.1755	39	-1.07	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0519	13.94	0.0700	14.52	0.5704	0.1755	39	-1.02	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0535	14.00	0.0000	14.52	0.5704	0.1755	39	-0.90	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0533	14.01	0.0800	14.52	0.5704	0.1755	39	-0.89	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0501	14.05	0.3000	14.52	0.5704	0.1755	39	-0.82	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0531	14.08	0.0500	14.52	0.5704	0.1755	39	-0.77	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0539	14.09	0.0300	14.52	0.5704	0.1755	39	-0.76	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0532	14.09	0.0400	14.52	0.5704	0.1755	39	-0.75	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0549	14.09	0.0200	14.52	0.5704	0.1755	39	-0.75	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0234	14.15	0.0900	14.52	0.5704	0.1755	39	-0.65	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0389	14.18	0.1100	14.52	0.5704	0.1755	39	-0.60	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0536	14.18	0.0500	14.52	0.5704	0.1755	39	-0.60	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0325	14.20	0.8000	14.52	0.5704	0.1755	39	-0.55	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0538	14.25	0.1000	14.52	0.5704	0.1755	39	-0.47	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0096	14.38	0.1200	14.52	0.5704	0.1755	39	-0.24	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0394	14.41	0.0020	14.52	0.5704	0.1755	39	-0.18	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0537	14.45	0.0500	14.52	0.5704	0.1755	39	-0.12	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0482	14.45	0.1000	14.52	0.5704	0.1755	39	-0.12	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0476	14.54	0.1937	14.52	0.5704	0.1755	39	0.05	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0545	14.66	0.0000	14.52	0.5704	0.1755	39	0.25	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0027	14.67	0.2600	14.52	0.5704	0.1755	39	0.27	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0433	14.74	0.0600	14.52	0.5704	0.1755	39	0.39	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0177	14.74	0.0668	14.52	0.5704	0.1755	39	0.40	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0493	14.75	0.1000	14.52	0.5704	0.1755	39	0.41	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0527	14.83	0.0700	14.52	0.5704	0.1755	39	0.54	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0402	14.89	0.0400	14.52	0.5704	0.1755	39	0.66	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0451	14.96	0.0900	14.52	0.5704	0.1755	39	0.77	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0421	15.05	0.3000	14.52	0.5704	0.1755	39	0.94	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0444	15.11	0.1200	14.52	0.5704	0.1755	39	1.04	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0255	15.14	0.9060	14.52	0.5704	0.1755	39	1.09	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0368	15.19	0.0717	14.52	0.5704	0.1755	39	1.18	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0300	15.21	0.1100	14.52	0.5704	0.1755	39	1.21	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0516	15.25	0.3750	14.52	0.5704	0.1755	39	1.28	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0546	15.49	0.2870	14.52	0.5704	0.1755	39	1.71	High	0
050.99	Soluble Potassium as K2O, Other (14%)	0042	15.83	0.8600	14.52	0.5704	0.1755	39	2.30	High	0
050.99	Soluble Potassium as K2O, Other (14%)	0524	16.05	0.0121	14.52	0.5704	0.1755	39	2.69	High	0
050.99	Soluble Potassium as K2O, Other (14%)	0541	15.61	1.940	14.52	0.5704	0.1755	39	1.92	High	1
060.00	Water (Free), Vacuum Oven (%)	0007	0.4850	0.2100	0.6723	0.1623	0.1183	3	-1.15		0
060.00	Water (Free), Vacuum Oven (%)	0416	0.7620	0.0250	0.6723	0.1623	0.1183	3	0.55		0
060.00	Water (Free), Vacuum Oven (%)	0096	0.7700	0.1200	0.6723	0.1623	0.1183	3	0.60		0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0518	1.985	0.2300				2			0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0055	3.450	0.3000				2			0
060.99	Water (Free), Other (%)	0055	0.7200	0.4600				1			0



Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0472	0.2350	0.0100	0.3046	0.0451	0.0564	8	-1.41	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0482	0.2750	0.0100	0.3046	0.0451	0.0564	8	-0.60	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0511	0.2900	0.0000	0.3046	0.0451	0.0564	8	-0.30	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0096	0.2955	0.0190	0.3046	0.0451	0.0564	8	-0.18	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0354	0.3150	0.0100	0.3046	0.0451	0.0564	8	0.21	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0035	0.3235	0.0970	0.3046	0.0451	0.0564	8	0.38	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0324	0.3285	0.2170	0.3046	0.0451	0.0564	8	0.48	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0483	0.5670	0.0880	0.3046	0.0451	0.0564	8	5.32	High	0
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0521	0.2796	0.0000				2			0
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0423	0.4780	0.0240				2			0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0494	0.2810	0.0051	0.2990	0.0295	0.0042	3	-0.61		0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0117	0.2829	0.0014	0.2990	0.0295	0.0042	3	-0.54		0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0527	0.3330	0.0060	0.2990	0.0295	0.0042	3	1.15		0
101.99	Acid Soluble Calcium, Other (%)	0389	0.2600	0.0000				1			0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	0516	0.5456	0.0180	0.6493	0.1154	0.0232	6	-0.80	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	0040	0.5700	0.0000	0.6493	0.1154	0.0232	6	-0.61	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	0029	0.6028	0.0311	0.6493	0.1154	0.0232	6	-0.36	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	0169	0.6550	0.0300	0.6493	0.1154	0.0232	6	0.04	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	0550	0.7000	0.0400	0.6493	0.1154	0.0232	6	0.39	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	0309	0.9000	0.0200	0.6493	0.1154	0.0232	6	1.94	High	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0230	0.4490	0.0100	0.5688	0.0334	0.0103	18	-3.59	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0035	0.5015	0.0190	0.5688	0.0334	0.0103	18	-2.01	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0451	0.5280	0.0140	0.5688	0.0334	0.0103	18	-1.22	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0360	0.5355	0.0090	0.5688	0.0334	0.0103	18	-1.00	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0324	0.5565	0.0070	0.5688	0.0334	0.0103	18	-0.37	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0102	0.5626	0.0323	0.5688	0.0334	0.0103	18	-0.19	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0354	0.5650	0.0100	0.5688	0.0334	0.0103	18	-0.11	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0444	0.5650	0.0100	0.5688	0.0334	0.0103	18	-0.11	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0482	0.5650	0.0100	0.5688	0.0334	0.0103	18	-0.11	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0096	0.5700	0.0200	0.5688	0.0334	0.0103	18	0.04	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0433	0.5735	0.0010	0.5688	0.0334	0.0103	18	0.14	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0231	0.5800	0.0000	0.5688	0.0334	0.0103	18	0.34	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0390	0.5900	0.0020	0.5688	0.0334	0.0103	18	0.64	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0472	0.5900	0.0000	0.5688	0.0334	0.0103	18	0.64	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0511	0.5900	0.0000	0.5688	0.0334	0.0103	18	0.64	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0255	0.6005	0.0210	0.5688	0.0334	0.0103	18	0.95	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0234	0.6100	0.0200	0.5688	0.0334	0.0103	18	1.24	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0307	0.6950	0.0000	0.5688	0.0334	0.0103	18	3.78	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0483	0.7075	0.0530	0.5688	0.0334	0.0103	18	4.16	OK	1
121.31	Acid Soluble Magnesium, ICP, test portion org... (1%)	0220	0.6550	0.0300				1			0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0394	0.5325	0.0090	0.5669	0.0328	0.0024	5	-1.05		0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0541	0.5400	0.0000	0.5669	0.0328	0.0024	5	-0.82		0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0521	0.5624	0.0000	0.5669	0.0328	0.0024	5	-0.14		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0423	0.5895	0.0030	0.5669	0.0328	0.0024	5	0.69		0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0043	0.6100	0.0000	0.5669	0.0328	0.0024	5	1.32		0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0486	0.4950	0.0100	0.5773	0.0315	0.0096	9	-2.41	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0023	0.5620	0.0040	0.5773	0.0315	0.0096	9	-0.45	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0177	0.5662	0.0112	0.5773	0.0315	0.0096	9	-0.33	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0494	0.5679	0.0100	0.5773	0.0315	0.0096	9	-0.28	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0055	0.5700	0.0200	0.5773	0.0315	0.0096	9	-0.21	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0421	0.5750	0.0100	0.5773	0.0315	0.0096	9	-0.07	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0117	0.5899	0.0093	0.5773	0.0315	0.0096	9	0.37	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0527	0.6120	0.0020	0.5773	0.0315	0.0096	9	1.01	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0546	0.6230	0.0100	0.5773	0.0315	0.0096	9	1.34	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0515	2.571	1.439	0.5773	0.0315	0.0096	9	58.35	High	2
121.99	Acid Soluble Magnesium, Other (1%)	0506	0.0500	0.0000	0.5451	0.1632	0.0109	7	-2.74	Low	0
121.99	Acid Soluble Magnesium, Other (1%)	0476	0.4549	0.0057	0.5451	0.1632	0.0109	7	-0.50	OK	0
121.99	Acid Soluble Magnesium, Other (1%)	0524	0.5400	0.0000	0.5451	0.1632	0.0109	7	-0.03	OK	0
121.99	Acid Soluble Magnesium, Other (1%)	0389	0.5570	0.0100	0.5451	0.1632	0.0109	7	0.07	OK	0
121.99	Acid Soluble Magnesium, Other (1%)	0368	0.5737	0.0206	0.5451	0.1632	0.0109	7	0.16	OK	0
121.99	Acid Soluble Magnesium, Other (1%)	0523	0.6000	0.0000	0.5451	0.1632	0.0109	7	0.30	OK	0
121.99	Acid Soluble Magnesium, Other (1%)	0519	0.8600	0.0400	0.5451	0.1632	0.0109	7	1.74	High	0
121.99	Acid Soluble Magnesium, Other (1%)	0515	1.033	0.1887	0.5451	0.1632	0.0109	7	2.71	High	1
131.00	Water Soluble Magnesium, AA (%)	0029	0.3363	0.0562				2			0
131.00	Water Soluble Magnesium, AA (%)	0550	0.3700	0.3400				2			0
131.30	Water Soluble Magnesium, ICP (%)	0394	0.1915	0.0070	0.3404	0.1509	0.0244	6	-0.88	NA	0
131.30	Water Soluble Magnesium, ICP (%)	0231	0.2750	0.0100	0.3404	0.1509	0.0244	6	-0.39	NA	0
131.30	Water Soluble Magnesium, ICP (%)	0117	0.2882	0.0203	0.3404	0.1509	0.0244	6	-0.31	NA	0
131.30	Water Soluble Magnesium, ICP (%)	0444	0.3000	0.0600	0.3404	0.1509	0.0244	6	-0.24	NA	0
131.30	Water Soluble Magnesium, ICP (%)	0027	0.4210	0.0360	0.3404	0.1509	0.0244	6	0.48	NA	0
131.30	Water Soluble Magnesium, ICP (%)	0543	0.6435	0.0130	0.3404	0.1509	0.0244	6	1.79	NA	0
131.99	Water Soluble Magnesium, Other (%)	0506	0.0500	0.0000				2			0
131.99	Water Soluble Magnesium, Other (%)	0220	0.4750	0.0100				2			0
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon... (%)	0095	0.3650	0.0100				1			0
143.99	Elemental Sulfur, Other (%)	0472	9.500	0.0800	10.23	0.4839	0.1198	5	-1.51		0
143.99	Elemental Sulfur, Other (%)	0255	10.07	0.3990	10.23	0.4839	0.1198	5	-0.34		0
143.99	Elemental Sulfur, Other (%)	0390	10.28	0.0800	10.23	0.4839	0.1198	5	0.10		0
143.99	Elemental Sulfur, Other (%)	0291	10.58	0.0100	10.23	0.4839	0.1198	5	0.71		0
143.99	Elemental Sulfur, Other (%)	0389	10.74	0.0300	10.23	0.4839	0.1198	5	1.04		0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0444	10.14	0.0200	10.62	0.2607	0.1280	9	-1.71	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0544	10.45	0.0100	10.62	0.2607	0.1280	9	-0.63	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0522	10.48	0.0500	10.62	0.2607	0.1280	9	-0.52	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0095	10.49	0.0900	10.62	0.2607	0.1280	9	-0.49	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0511	10.68	0.0000	10.62	0.2607	0.1280	9	0.20	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0550	10.75	0.5000	10.62	0.2607	0.1280	9	0.45	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0043	10.77	0.1400	10.62	0.2607	0.1280	9	0.52	NA	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0027	10.78	0.2600	10.62	0.2607	0.1280	9	0.56	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0397	10.99	0.0820	10.62	0.2607	0.1280	9	1.28	NA	0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0518	7.820	0.0400				2			0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0444	9.780	0.2600				2			0
148.00	Total Sulfur, Combustion (7.75%)	0157	10.40	0.0000	10.58	0.1882	0.1650	6	-0.85	OK	0
148.00	Total Sulfur, Combustion (7.75%)	0451	10.45	0.1000	10.58	0.1882	0.1650	6	-0.62	OK	0
148.00	Total Sulfur, Combustion (7.75%)	0025	10.54	0.0500	10.58	0.1882	0.1650	6	-0.22	OK	0
148.00	Total Sulfur, Combustion (7.75%)	0029	10.58	0.2300	10.58	0.1882	0.1650	6	-0.03	OK	0
148.00	Total Sulfur, Combustion (7.75%)	0049	10.66	0.3000	10.58	0.1882	0.1650	6	0.38	OK	0
148.00	Total Sulfur, Combustion (7.75%)	0136	10.92	0.3100	10.58	0.1882	0.1650	6	1.58	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0534	10.17	0.0300	10.49	0.2401	0.0464	11	-1.37	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0231	10.30	0.0000	10.49	0.2401	0.0464	11	-0.81	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0114	10.38	0.0100	10.49	0.2401	0.0464	11	-0.49	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0444	10.39	0.0200	10.49	0.2401	0.0464	11	-0.43	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0105	10.41	0.0100	10.49	0.2401	0.0464	11	-0.37	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0405	10.42	0.1200	10.49	0.2401	0.0464	11	-0.31	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0029	10.49	0.0600	10.49	0.2401	0.0464	11	-0.02	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0230	10.55	0.1000	10.49	0.2401	0.0464	11	0.23	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0476	10.67	0.0706	10.49	0.2401	0.0464	11	0.74	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0055	10.82	0.0100	10.49	0.2401	0.0464	11	1.34	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0095	10.85	0.0800	10.49	0.2401	0.0464	11	1.48	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0324	10.95	0.3000	10.49	0.2401	0.0464	11	1.90	OK	1
148.04	Total Sulfur, ICP, w/Br digestion (7.75%)	0419	10.43	0.0000				1			0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0102	7.996	0.4731	10.33	0.8335	0.3663	15	-2.79	Low	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0023	9.099	1.695	10.33	0.8335	0.3663	15	-1.47	Low	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0444	9.435	0.2100	10.33	0.8335	0.3663	15	-1.07	Low	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0394	10.01	0.1900	10.33	0.8335	0.3663	15	-0.38	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0117	10.15	0.0500	10.33	0.8335	0.3663	15	-0.22	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0494	10.30	0.7526	10.33	0.8335	0.3663	15	-0.03	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0177	10.38	0.1776	10.33	0.8335	0.3663	15	0.07	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0486	10.39	0.1500	10.33	0.8335	0.3663	15	0.07	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0037	10.39	0.0750	10.33	0.8335	0.3663	15	0.07	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0402	10.39	0.0800	10.33	0.8335	0.3663	15	0.08	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0292	10.41	0.0600	10.33	0.8335	0.3663	15	0.10	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0421	10.75	0.3000	10.33	0.8335	0.3663	15	0.51	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0546	11.25	0.0060	10.33	0.8335	0.3663	15	1.11	High	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0483	11.30	1.200	10.33	0.8335	0.3663	15	1.17	High	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0527	12.36	0.0750	10.33	0.8335	0.3663	15	2.44	High	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0515	8.339	3.090	10.33	0.8335	0.3663	15	-2.38	Low	1
148.99	Total Sulfur, Other (7.75%)	0523	9.250	0.1000	10.47	0.6122	0.1383	11	-1.86	Low	0
148.99	Total Sulfur, Other (7.75%)	0541	9.865	0.0100	10.47	0.6122	0.1383	11	-0.92	OK	0
148.99	Total Sulfur, Other (7.75%)	0506	9.980	0.2400	10.47	0.6122	0.1383	11	-0.74	OK	0
148.99	Total Sulfur, Other (7.75%)	0368	10.31	0.3813	10.47	0.6122	0.1383	11	-0.24	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
148.99	Total Sulfur, Other (7.75%)	0354	10.40	0.0000	10.47	0.6122	0.1383	11	-0.10	OK	0
148.99	Total Sulfur, Other (7.75%)	0040	10.50	0.2000	10.47	0.6122	0.1383	11	0.05	OK	0
148.99	Total Sulfur, Other (7.75%)	0096	10.52	0.1200	10.47	0.6122	0.1383	11	0.08	OK	0
148.99	Total Sulfur, Other (7.75%)	0433	10.63	0.0300	10.47	0.6122	0.1383	11	0.24	OK	0
148.99	Total Sulfur, Other (7.75%)	0482	10.95	0.1000	10.47	0.6122	0.1383	11	0.74	OK	0
148.99	Total Sulfur, Other (7.75%)	0220	11.05	0.0900	10.47	0.6122	0.1383	11	0.89	OK	0
148.99	Total Sulfur, Other (7.75%)	0307	12.87	0.2500	10.47	0.6122	0.1383	11	3.67	High	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0519	7.860	0.0800	10.01	1.644	0.0375	4	-1.31		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0521	9.998	0.0000	10.01	1.644	0.0375	4	-0.01		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0423	10.33	0.0500	10.01	1.644	0.0375	4	0.19		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0524	11.85	0.0200	10.01	1.644	0.0375	4	1.12		0
151.00	Acid Soluble Arsenic , AA, test portion as in...	0550	89.50	3.270				2			0
151.00	Acid Soluble Arsenic , AA, test portion as in...	0136	145.0	4.000				2			0
151.30	Acid Soluble Arsenic , ICP (ppm)	0444	126.5	3.000	159.2	13.77	7.712	9	-2.19	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0394	141.3	3.200	159.2	13.77	7.712	9	-1.20	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0368	155.0	10.00	159.2	13.77	7.712	9	-0.28	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0096	161.7	7.300	159.2	13.77	7.712	9	0.16	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0255	161.9	3.681	159.2	13.77	7.712	9	0.18	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0389	164.9	0.1400	159.2	13.77	7.712	9	0.38	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0541	166.0	30.00	159.2	13.77	7.712	9	0.45	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0511	170.0	0.0000	159.2	13.77	7.712	9	0.72	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0102	173.6	12.08	159.2	13.77	7.712	9	0.96	NA	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0515	154.4	9.017	170.0	9.408	6.345	5	-1.66		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0527	170.4	0.5060	170.0	9.408	6.345	5	0.04		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0117	172.7	6.000	170.0	9.408	6.345	5	0.28		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0037	172.8	8.634	170.0	9.408	6.345	5	0.30		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0494	179.8	7.566	170.0	9.408	6.345	5	1.04		0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0230	149.0	36.00				2			0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0515	149.2	5.280				2			0
151.99	Acid Soluble Arsenic , Other (ppm)	0476	45.43	0.3364	120.4	65.64	4.329	3	-1.14		0
151.99	Acid Soluble Arsenic , Other (ppm)	0220	148.0	12.00	120.4	65.64	4.329	3	0.42		0
151.99	Acid Soluble Arsenic , Other (ppm)	0519	167.7	0.6500	120.4	65.64	4.329	3	0.72		0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0537	0.1025	0.0030	0.1977	0.0184	0.0122	13	-5.17	Low	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0309	0.1750	0.0100	0.1977	0.0184	0.0122	13	-1.23	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0029	0.1870	0.0020	0.1977	0.0184	0.0122	13	-0.58	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0397	0.1880	0.0042	0.1977	0.0184	0.0122	13	-0.53	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0506	0.1950	0.0100	0.1977	0.0184	0.0122	13	-0.15	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0539	0.1950	0.0300	0.1977	0.0184	0.0122	13	-0.15	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0055	0.1960	0.0100	0.1977	0.0184	0.0122	13	-0.09	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0531	0.2000	0.0200	0.1977	0.0184	0.0122	13	0.12	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0169	0.2040	0.0100	0.1977	0.0184	0.0122	13	0.34	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0220	0.2050	0.0100	0.1977	0.0184	0.0122	13	0.40	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0535	0.2050	0.0100	0.1977	0.0184	0.0122	13	0.40	OK	0



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			Value	Range	Rob Mean	Rob SD	R-bar				
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0550	0.2250	0.0100	0.1977	0.0184	0.0122	13	1.48	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0534	0.2450	0.0300	0.1977	0.0184	0.0122	13	2.57	High	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0324	0.1860	0.0000	0.2095	0.0128	0.0028	13	-1.84	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0521	0.1897	0.0000	0.2095	0.0128	0.0028	13	-1.55	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0394	0.2032	0.0033	0.2095	0.0128	0.0028	13	-0.50	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0234	0.2050	0.0100	0.2095	0.0128	0.0028	13	-0.35	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0040	0.2075	0.0010	0.2095	0.0128	0.0028	13	-0.16	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0023	0.2090	0.0000	0.2095	0.0128	0.0028	13	-0.04	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0389	0.2097	0.0018	0.2095	0.0128	0.0028	13	0.01	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0354	0.2100	0.0000	0.2095	0.0128	0.0028	13	0.04	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0444	0.2100	0.0000	0.2095	0.0128	0.0028	13	0.04	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0390	0.2176	0.0069	0.2095	0.0128	0.0028	13	0.63	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0494	0.2186	0.0010	0.2095	0.0128	0.0028	13	0.71	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0433	0.2240	0.0020	0.2095	0.0128	0.0028	13	1.13	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0307	0.2415	0.0110	0.2095	0.0128	0.0028	13	2.50	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0136	0.2100	0.0200	0.2095	0.0128	0.0028	13	0.04	OK	1
165.99	Acid Soluble Boron , Other (0.2%)	0230	0.1655	0.0030	0.2075	0.0196	0.0041	19	-2.14	Low	0
165.99	Acid Soluble Boron , Other (0.2%)	0476	0.1698	0.0007	0.2075	0.0196	0.0041	19	-1.92	Low	0
165.99	Acid Soluble Boron , Other (0.2%)	0524	0.1850	0.0100	0.2075	0.0196	0.0041	19	-1.15	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0486	0.1900	0.0000	0.2075	0.0196	0.0041	19	-0.89	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0527	0.1995	0.0030	0.2075	0.0196	0.0041	19	-0.41	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0472	0.2000	0.0000	0.2075	0.0196	0.0041	19	-0.38	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0421	0.2005	0.0010	0.2075	0.0196	0.0041	19	-0.36	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0368	0.2042	0.0013	0.2075	0.0196	0.0041	19	-0.17	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0519	0.2050	0.0100	0.2075	0.0196	0.0041	19	-0.13	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0482	0.2100	0.0000	0.2075	0.0196	0.0041	19	0.13	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0511	0.2100	0.0000	0.2075	0.0196	0.0041	19	0.13	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0360	0.2110	0.0020	0.2075	0.0196	0.0041	19	0.18	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0423	0.2115	0.0010	0.2075	0.0196	0.0041	19	0.20	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0117	0.2149	0.0011	0.2075	0.0196	0.0041	19	0.37	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0255	0.2175	0.0090	0.2075	0.0196	0.0041	19	0.51	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0546	0.2240	0.0080	0.2075	0.0196	0.0041	19	0.84	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0042	0.2295	0.0130	0.2075	0.0196	0.0041	19	1.12	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0231	0.2400	0.0000	0.2075	0.0196	0.0041	19	1.66	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0483	0.2490	0.0140	0.2075	0.0196	0.0041	19	2.12	High	0
165.99	Acid Soluble Boron , Other (0.2%)	0515	0.2136	0.0255	0.2075	0.0196	0.0041	19	0.31	OK	1
171.10	Water Soluble Boron , Spectrophotometric (%)	0533	0.1005	0.0050	0.1273	0.0342	0.0203	6	-0.70	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0536	0.1095	0.0210	0.1273	0.0342	0.0203	6	-0.46	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0538	0.1100	0.0040	0.1273	0.0342	0.0203	6	-0.45	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0532	0.1140	0.0320	0.1273	0.0342	0.0203	6	-0.35	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0220	0.1550	0.0100	0.1273	0.0342	0.0203	6	0.72	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0550	0.1750	0.0500	0.1273	0.0342	0.0203	6	1.24	NA	0
171.99	Water Soluble Boron , Other (%)	0444	0.1550	0.0100				2			0

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			Value	Range	Rob Mean	Rob SD	R-bar				
171.99	Water Soluble Boron , Other (%)	0402	0.2120	0.0020				2			0
181.00	Acid Soluble Cadmium , AA, test portion as in...	0550	179.5	135.4				2			0
181.00	Acid Soluble Cadmium , AA, test portion as in...	0136	200.0	2.000				2			0
181.30	Acid Soluble Cadmium , ICP (ppm)	0444	137.5	3.000	188.3	18.90	8.958	11	-2.51	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0035	171.0	16.00	188.3	18.90	8.958	11	-0.85	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0255	173.3	4.369	188.3	18.90	8.958	11	-0.74	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0368	182.5	3.000	188.3	18.90	8.958	11	-0.29	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0389	185.0	6.000	188.3	18.90	8.958	11	-0.16	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0541	188.0	14.00	188.3	18.90	8.958	11	-0.01	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0096	192.0	18.10	188.3	18.90	8.958	11	0.18	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0524	192.0	6.070	188.3	18.90	8.958	11	0.19	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0482	204.5	15.00	188.3	18.90	8.958	11	0.80	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0102	206.2	13.00	188.3	18.90	8.958	11	0.89	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0511	216.5	0.0000	188.3	18.90	8.958	11	1.40	NA	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0117	188.9	7.900	197.6	7.948	14.34	5	-1.10		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0515	190.1	33.57	197.6	7.948	14.34	5	-0.94		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0037	199.0	11.02	197.6	7.948	14.34	5	0.18		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0527	203.0	1.306	197.6	7.948	14.34	5	0.68		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0494	207.0	17.91	197.6	7.948	14.34	5	1.19		0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0230	187.0	70.00				2			0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0515	200.2	1.210				2			0
181.99	Acid Soluble Cadmium , Other (ppm)	0506	126.5	27.00	161.0	28.00	13.45	4	-1.23		0
181.99	Acid Soluble Cadmium , Other (ppm)	0476	152.3	0.8220	161.0	28.00	13.45	4	-0.31		0
181.99	Acid Soluble Cadmium , Other (ppm)	0519	173.5	0.9700	161.0	28.00	13.45	4	0.45		0
181.99	Acid Soluble Cadmium , Other (ppm)	0220	191.5	25.00	161.0	28.00	13.45	4	1.09		0
190.00	Water Soluble Chlorine, Titrimetric (%)	0185	2.335	0.0100				1			0
190.99	Water Soluble Chlorine, Other (%)	0511	12.33	0.0000				1			0
191.00	Acid Soluble Chromium , AA, test portion as i...	0550	502.1	274.0				1			0
191.30	Acid Soluble Chromium , ICP (ppm)	0096	315.4	21.40	552.4	82.82	17.29	8	-2.62	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0444	467.0	12.00	552.4	82.82	17.29	8	-0.94	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0482	549.5	37.00	552.4	82.82	17.29	8	-0.03	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0102	552.3	34.90	552.4	82.82	17.29	8	0.00	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0035	585.0	18.00	552.4	82.82	17.29	8	0.36	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0368	590.0	12.00	552.4	82.82	17.29	8	0.41	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0389	592.5	3.000	552.4	82.82	17.29	8	0.44	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0511	655.0	0.0000	552.4	82.82	17.29	8	1.13	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0541	687.5	107.0	552.4	82.82	17.29	8	1.49	NA	1
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0527	593.3	3.204	619.6	19.71	29.26	5	-1.33		0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0494	603.8	16.94	619.6	19.71	29.26	5	-0.80		0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0037	630.0	12.96	619.6	19.71	29.26	5	0.53		0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0515	633.5	102.6	619.6	19.71	29.26	5	0.71		0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0117	637.2	10.60	619.6	19.71	29.26	5	0.90		0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0230	561.5	57.00				2			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0515	758.4	124.8				2			0
191.99	Acid Soluble Chromium , Other (ppm)	0506	10.51	1.980	449.3	297.7	8.976	4	-1.47		0
191.99	Acid Soluble Chromium , Other (ppm)	0476	532.4	6.975	449.3	297.7	8.976	4	0.28		0
191.99	Acid Soluble Chromium , Other (ppm)	0220	587.0	26.00	449.3	297.7	8.976	4	0.46		0
191.99	Acid Soluble Chromium , Other (ppm)	0519	667.1	0.9500	449.3	297.7	8.976	4	0.73		0
202.30	Acid Soluble Cobalt , ICP (ppm)	0482	315.5	23.00	382.6	19.16	15.29	8	-3.20	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0389	367.0	2.100	382.6	19.16	15.29	8	-0.75	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0368	375.5	21.00	382.6	19.16	15.29	8	-0.34	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0524	381.8	0.1700	382.6	19.16	15.29	8	-0.04	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0096	387.1	4.600	382.6	19.16	15.29	8	0.21	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0035	394.5	61.00	382.6	19.16	15.29	8	0.57	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0511	395.0	0.0000	382.6	19.16	15.29	8	0.59	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0102	406.3	10.45	382.6	19.16	15.29	8	1.13	OK	0
202.32	Acid Soluble Cobalt , ICP, 2006.03 (ppm)	0423	350.5	5.000				1			0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0550	29.12	6.770	374.0	26.97	9.178	7	-11.56	Low	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0515	355.4	1.880	374.0	26.97	9.178	7	-0.63	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0527	368.4	0.8720	374.0	26.97	9.178	7	-0.19	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0546	374.5	25.00	374.0	26.97	9.178	7	0.02	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0037	395.3	9.700	374.0	26.97	9.178	7	0.71	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0494	395.4	10.33	374.0	26.97	9.178	7	0.72	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0117	395.7	9.700	374.0	26.97	9.178	7	0.72	OK	0
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0515	377.1	16.79				1			0
202.99	Acid Soluble Cobalt , Other (ppm)	0476	309.0	20.43	388.5	66.30	6.629	5	-1.20		0
202.99	Acid Soluble Cobalt , Other (ppm)	0255	367.5	6.643	388.5	66.30	6.629	5	-0.32		0
202.99	Acid Soluble Cobalt , Other (ppm)	0220	375.0	6.000	388.5	66.30	6.629	5	-0.20		0
202.99	Acid Soluble Cobalt , Other (ppm)	0506	400.0	0.0000	388.5	66.30	6.629	5	0.17		0
202.99	Acid Soluble Cobalt , Other (ppm)	0519	491.0	0.0700	388.5	66.30	6.629	5	1.55		0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.06%)	0516	0.1074	0.0196	0.1288	0.0125	0.0109	5	-1.71		0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.06%)	0040	0.1305	0.0030	0.1288	0.0125	0.0109	5	0.14		0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.06%)	0535	0.1325	0.0050	0.1288	0.0125	0.0109	5	0.30		0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.06%)	0029	0.1334	0.0067	0.1288	0.0125	0.0109	5	0.37		0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.06%)	0550	0.1400	0.0200	0.1288	0.0125	0.0109	5	0.90		0
221.03	Acid Soluble Copper , AA, 965.09, test portio... (0.06%)	0023	0.1340	0.0000				2			0
221.03	Acid Soluble Copper , AA, 965.09, test portio... (0.06%)	0231	0.1400	0.0000				2			0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0550	0.0280	0.0000	0.1313	0.0200	0.0069	18	-5.17	Low	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0234	0.0900	0.0200	0.1313	0.0200	0.0069	18	-2.07	Low	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0230	0.1110	0.0000	0.1313	0.0200	0.0069	18	-1.02	Low	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0324	0.1145	0.0050	0.1313	0.0200	0.0069	18	-0.84	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0472	0.1200	0.0000	0.1313	0.0200	0.0069	18	-0.56	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0433	0.1245	0.0010	0.1313	0.0200	0.0069	18	-0.34	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0402	0.1250	0.0020	0.1313	0.0200	0.0069	18	-0.31	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0354	0.1300	0.0000	0.1313	0.0200	0.0069	18	-0.06	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0360	0.1310	0.0040	0.1313	0.0200	0.0069	18	-0.01	OK	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0444	0.1350	0.0100	0.1313	0.0200	0.0069	18	0.19	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0035	0.1355	0.0070	0.1313	0.0200	0.0069	18	0.21	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0511	0.1360	0.0000	0.1313	0.0200	0.0069	18	0.24	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0255	0.1375	0.0110	0.1313	0.0200	0.0069	18	0.31	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0482	0.1400	0.0000	0.1313	0.0200	0.0069	18	0.44	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0096	0.1458	0.0073	0.1313	0.0200	0.0069	18	0.72	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0307	0.1565	0.0110	0.1313	0.0200	0.0069	18	1.26	High	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0483	0.1570	0.0240	0.1313	0.0200	0.0069	18	1.29	High	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0543	0.2080	0.0220	0.1313	0.0200	0.0069	18	3.84	High	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0541	1,210	100.0	0.1313	0.0200	0.0069	18	60557.84	High	2
221.31	Acid Soluble Copper , ICP, test portion organ... (0.06%)	0390	0.1258	0.0135				1			0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0521	0.1017	0.0000	0.1300	0.0192	0.0048	5	-1.47		0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0394	0.1285	0.0080	0.1300	0.0192	0.0048	5	-0.08		0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0220	0.1295	0.0050	0.1300	0.0192	0.0048	5	-0.03		0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0043	0.1350	0.0100	0.1300	0.0192	0.0048	5	0.26		0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0423	0.1555	0.0010	0.1300	0.0192	0.0048	5	1.32		0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0527	0.1155	0.0010	0.1305	0.0081	0.0061	10	-1.71	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0494	0.1216	0.0095	0.1305	0.0081	0.0061	10	-1.02	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0486	0.1250	0.0100	0.1305	0.0081	0.0061	10	-0.63	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0515	0.1279	0.0103	0.1305	0.0081	0.0061	10	-0.30	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0055	0.1300	0.0000	0.1305	0.0081	0.0061	10	-0.06	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0546	0.1340	0.0020	0.1305	0.0081	0.0061	10	0.40	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0421	0.1350	0.0100	0.1305	0.0081	0.0061	10	0.52	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0037	0.1365	0.0110	0.1305	0.0081	0.0061	10	0.69	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0117	0.1367	0.0070	0.1305	0.0081	0.0061	10	0.71	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0136	0.1400	0.0000	0.1305	0.0081	0.0061	10	1.09	OK	0
221.99	Acid Soluble Copper , Other (0.06%)	0550	0.0037	0.0005	0.0851	0.0544	0.0058	10	-1.39	Low	0
221.99	Acid Soluble Copper , Other (0.06%)	0506	0.0100	0.0000	0.0851	0.0544	0.0058	10	-1.28	Low	0
221.99	Acid Soluble Copper , Other (0.06%)	0519	0.0450	0.0100	0.0851	0.0544	0.0058	10	-0.69	Low	0
221.99	Acid Soluble Copper , Other (0.06%)	0042	0.0915	0.0050	0.0851	0.0544	0.0058	10	0.11	OK	0
221.99	Acid Soluble Copper , Other (0.06%)	0027	0.1015	0.0130	0.0851	0.0544	0.0058	10	0.28	High	0
221.99	Acid Soluble Copper , Other (0.06%)	0476	0.1069	0.0122	0.0851	0.0544	0.0058	10	0.37	High	0
221.99	Acid Soluble Copper , Other (0.06%)	0389	0.1154	0.0016	0.0851	0.0544	0.0058	10	0.52	High	0
221.99	Acid Soluble Copper , Other (0.06%)	0523	0.1200	0.0000	0.0851	0.0544	0.0058	10	0.60	High	0
221.99	Acid Soluble Copper , Other (0.06%)	0368	0.1208	0.0033	0.0851	0.0544	0.0058	10	0.61	High	0
221.99	Acid Soluble Copper , Other (0.06%)	0515	0.1366	0.0126	0.0851	0.0544	0.0058	10	0.88	High	0
221.99	Acid Soluble Copper , Other (0.06%)	0524	0.1400	0.0400	0.0851	0.0544	0.0058	10	0.94	High	1
241.00	Acid Soluble Iron, AA, inorganic 965.09 (1%)	0516	0.4219	0.0036	0.6094	0.1123	0.0445	5	-1.67		0
241.00	Acid Soluble Iron, AA, inorganic 965.09 (1%)	0535	0.6100	0.0200	0.6094	0.1123	0.0445	5	0.01		0
241.00	Acid Soluble Iron, AA, inorganic 965.09 (1%)	0550	0.6400	0.1200	0.6094	0.1123	0.0445	5	0.27		0
241.00	Acid Soluble Iron, AA, inorganic 965.09 (1%)	0029	0.6552	0.0387	0.6094	0.1123	0.0445	5	0.41		0
241.00	Acid Soluble Iron, AA, inorganic 965.09 (1%)	0040	0.7200	0.0400	0.6094	0.1123	0.0445	5	0.99		0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0402	0.4400	0.0000	0.6617	0.0783	0.0135	20	-2.83	Low	0



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			Value	Range	Rob Mean	Rob SD	R-bar				
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0307	0.4550	0.0300	0.6617	0.0783	0.0135	20	-2.64	Low	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0230	0.4955	0.0030	0.6617	0.0783	0.0135	20	-2.12	Low	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0472	0.5300	0.0000	0.6617	0.0783	0.0135	20	-1.68	Low	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0231	0.6100	0.0000	0.6617	0.0783	0.0135	20	-0.66	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0035	0.6360	0.0580	0.6617	0.0783	0.0135	20	-0.33	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0255	0.6620	0.0280	0.6617	0.0783	0.0135	20	0.00	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0433	0.6685	0.0010	0.6617	0.0783	0.0135	20	0.09	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0157	0.6740	0.0100	0.6617	0.0783	0.0135	20	0.16	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0102	0.6878	0.0321	0.6617	0.0783	0.0135	20	0.33	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0354	0.6900	0.0000	0.6617	0.0783	0.0135	20	0.36	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0511	0.6900	0.0000	0.6617	0.0783	0.0135	20	0.36	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0444	0.6950	0.0100	0.6617	0.0783	0.0135	20	0.43	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0096	0.7025	0.0070	0.6617	0.0783	0.0135	20	0.52	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0360	0.7055	0.0010	0.6617	0.0783	0.0135	20	0.56	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0324	0.7075	0.0230	0.6617	0.0783	0.0135	20	0.58	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0390	0.7139	0.0055	0.6617	0.0783	0.0135	20	0.67	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0451	0.7155	0.0310	0.6617	0.0783	0.0135	20	0.69	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0482	0.7200	0.0200	0.6617	0.0783	0.0135	20	0.74	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0483	0.8350	0.0100	0.6617	0.0783	0.0135	20	2.21	High	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0234	0.9700	0.1800	0.6617	0.0783	0.0135	20	3.94	High	1
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0521	0.5101	0.0000	0.6048	0.0737	0.0258	5	-1.29		0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0394	0.5863	0.0238	0.6048	0.0737	0.0258	5	-0.25		0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0043	0.5950	0.0500	0.6048	0.0737	0.0258	5	-0.13		0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0423	0.6175	0.0050	0.6048	0.0737	0.0258	5	0.17		0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0220	0.7150	0.0500	0.6048	0.0737	0.0258	5	1.50		0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0527	0.5995	0.0050	0.6903	0.0418	0.0258	12	-2.18	Low	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0486	0.6150	0.0300	0.6903	0.0418	0.0258	12	-1.80	Low	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0177	0.6666	0.0189	0.6903	0.0418	0.0258	12	-0.57	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0515	0.6699	0.0669	0.6903	0.0418	0.0258	12	-0.49	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0136	0.6900	0.0400	0.6903	0.0418	0.0258	12	-0.01	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0037	0.6940	0.0140	0.6903	0.0418	0.0258	12	0.09	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0494	0.7003	0.0163	0.6903	0.0418	0.0258	12	0.24	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0117	0.7028	0.0462	0.6903	0.0418	0.0258	12	0.30	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0421	0.7050	0.0100	0.6903	0.0418	0.0258	12	0.35	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0055	0.7300	0.0200	0.6903	0.0418	0.0258	12	0.95	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0023	0.7310	0.0180	0.6903	0.0418	0.0258	12	0.97	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0546	0.7390	0.0240	0.6903	0.0418	0.0258	12	1.17	OK	0
241.99	Acid Soluble Iron, Other (1%)	0506	0.0025	0.0010	0.5484	0.1966	0.0132	13	-2.78	Low	0
241.99	Acid Soluble Iron, Other (1%)	0550	0.0041	0.0004	0.5484	0.1966	0.0132	13	-2.77	Low	0
241.99	Acid Soluble Iron, Other (1%)	0519	0.4400	0.0200	0.5484	0.1966	0.0132	13	-0.55	Low	0
241.99	Acid Soluble Iron, Other (1%)	0501	0.4750	0.0300	0.5484	0.1966	0.0132	13	-0.37	Low	0
241.99	Acid Soluble Iron, Other (1%)	0532	0.4950	0.0500	0.5484	0.1966	0.0132	13	-0.27	OK	0
241.99	Acid Soluble Iron, Other (1%)	0389	0.5000	0.0040	0.5484	0.1966	0.0132	13	-0.25	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
241.99	Acid Soluble Iron, Other (1%)	0476	0.5296	0.0138	0.5484	0.1966	0.0132	13	-0.10	OK	0
241.99	Acid Soluble Iron, Other (1%)	0523	0.5850	0.0100	0.5484	0.1966	0.0132	13	0.19	OK	0
241.99	Acid Soluble Iron, Other (1%)	0541	0.6600	0.0000	0.5484	0.1966	0.0132	13	0.57	High	0
241.99	Acid Soluble Iron, Other (1%)	0027	0.6915	0.0070	0.5484	0.1966	0.0132	13	0.73	High	0
241.99	Acid Soluble Iron, Other (1%)	0524	0.7000	0.0000	0.5484	0.1966	0.0132	13	0.77	High	0
241.99	Acid Soluble Iron, Other (1%)	0368	0.7184	0.0259	0.5484	0.1966	0.0132	13	0.86	High	0
241.99	Acid Soluble Iron, Other (1%)	0042	0.8275	0.0090	0.5484	0.1966	0.0132	13	1.42	High	0
241.99	Acid Soluble Iron, Other (1%)	0515	0.5216	0.0858	0.5484	0.1966	0.0132	13	-0.14	OK	1
251.00	Acid Soluble Lead , AA, test portion as in 20... (ppm)	0550	843.6	624.7				2			0
251.00	Acid Soluble Lead , AA, test portion as in 20... (ppm)	0136	927.5	21.00				2			0
251.30	Acid Soluble Lead , ICP (ppm)	0444	675.5	27.00	923.2	120.0	53.65	12	-2.06	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0482	745.5	61.00	923.2	120.0	53.65	12	-1.48	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0394	838.0	50.00	923.2	120.0	53.65	12	-0.71	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0524	879.6	10.27	923.2	120.0	53.65	12	-0.36	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0035	918.0	92.00	923.2	120.0	53.65	12	-0.04	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0096	936.0	60.80	923.2	120.0	53.65	12	0.11	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0511	947.0	0.0000	923.2	120.0	53.65	12	0.20	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0389	949.5	81.00	923.2	120.0	53.65	12	0.22	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0102	1,003	21.63	923.2	120.0	53.65	12	0.67	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0255	1,013	56.11	923.2	120.0	53.65	12	0.75	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0368	1,034	81.00	923.2	120.0	53.65	12	0.92	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0541	1,072	103.0	923.2	120.0	53.65	12	1.24	NA	0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0527	883.1	13.47	964.0	81.29	73.36	5	-1.00		0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0494	938.1	9.368	964.0	81.29	73.36	5	-0.32		0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0037	945.5	72.11	964.0	81.29	73.36	5	-0.23		0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0117	952.7	65.30	964.0	81.29	73.36	5	-0.14		0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0515	1,101	206.6	964.0	81.29	73.36	5	1.68		0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0230	885.0	186.0				2			0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0515	1,158	227.9				2			0
251.99	Acid Soluble Lead , Other (ppm)	0476	120.3	0.6114	643.0	383.9	15.12	4	-1.36		0
251.99	Acid Soluble Lead , Other (ppm)	0506	594.0	48.00	643.0	383.9	15.12	4	-0.13		0
251.99	Acid Soluble Lead , Other (ppm)	0519	888.0	0.8600	643.0	383.9	15.12	4	0.64		0
251.99	Acid Soluble Lead , Other (ppm)	0220	969.5	11.00	643.0	383.9	15.12	4	0.85		0
261.12	Acid Soluble Manganese , AA, inorganic 965.09... (0.16%)	0535	0.1225	0.0050	0.1579	0.0279	0.0181	4	-1.27		0
261.12	Acid Soluble Manganese , AA, inorganic 965.09... (0.16%)	0029	0.1550	0.0252	0.1579	0.0279	0.0181	4	-0.10		0
261.12	Acid Soluble Manganese , AA, inorganic 965.09... (0.16%)	0040	0.1640	0.0020	0.1579	0.0279	0.0181	4	0.22		0
261.12	Acid Soluble Manganese , AA, inorganic 965.09... (0.16%)	0550	0.1900	0.0400	0.1579	0.0279	0.0181	4	1.15		0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0035	0.1625	0.0110	0.1696	0.0045	0.0074	8	-1.45	OK	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0433	0.1660	0.0020	0.1696	0.0045	0.0074	8	-0.74	OK	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0102	0.1685	0.0159	0.1696	0.0045	0.0074	8	-0.24	OK	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0354	0.1700	0.0000	0.1696	0.0045	0.0074	8	0.08	OK	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0472	0.1700	0.0000	0.1696	0.0045	0.0074	8	0.08	OK	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0307	0.1710	0.0020	0.1696	0.0045	0.0074	8	0.29	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0096	0.1722	0.0069	0.1696	0.0045	0.0074	8	0.52	OK	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0390	0.1886	0.0217	0.1696	0.0045	0.0074	8	3.88	OK	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0230	0.1445	0.0090	0.1612	0.0167	0.0047	6	-0.89	OK	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0360	0.1545	0.0050	0.1612	0.0167	0.0047	6	-0.36	OK	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0234	0.1550	0.0100	0.1612	0.0167	0.0047	6	-0.33	OK	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0324	0.1570	0.0040	0.1612	0.0167	0.0047	6	-0.22	OK	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0511	0.1700	0.0000	0.1612	0.0167	0.0047	6	0.47	OK	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0482	0.1900	0.0000	0.1612	0.0167	0.0047	6	1.53	High	0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.16%)	0451	0.1575	0.0010	0.1628	0.0049	0.0072	5	-1.09		0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.16%)	0444	0.1600	0.0200	0.1628	0.0049	0.0072	5	-0.58		0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.16%)	0483	0.1615	0.0050	0.1628	0.0049	0.0072	5	-0.27		0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.16%)	0402	0.1650	0.0100	0.1628	0.0049	0.0072	5	0.45		0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.16%)	0231	0.1700	0.0000	0.1628	0.0049	0.0072	5	1.48		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0521	0.1474	0.0000	0.1643	0.0133	0.0052	5	-1.27		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0394	0.1550	0.0040	0.1643	0.0133	0.0052	5	-0.70		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0220	0.1650	0.0100	0.1643	0.0133	0.0052	5	0.05		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0043	0.1750	0.0100	0.1643	0.0133	0.0052	5	0.81		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0423	0.1790	0.0020	0.1643	0.0133	0.0052	5	1.11		0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0421	0.1450	0.0100	0.1599	0.0097	0.0052	11	-1.55	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0527	0.1480	0.0020	0.1599	0.0097	0.0052	11	-1.24	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0486	0.1550	0.0100	0.1599	0.0097	0.0052	11	-0.51	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0177	0.1562	0.0108	0.1599	0.0097	0.0052	11	-0.39	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0494	0.1579	0.0015	0.1599	0.0097	0.0052	11	-0.22	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0023	0.1615	0.0030	0.1599	0.0097	0.0052	11	0.16	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0037	0.1625	0.0010	0.1599	0.0097	0.0052	11	0.27	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0117	0.1648	0.0052	0.1599	0.0097	0.0052	11	0.50	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0136	0.1650	0.0100	0.1599	0.0097	0.0052	11	0.52	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0055	0.1700	0.0000	0.1599	0.0097	0.0052	11	1.04	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0546	0.1730	0.0040	0.1599	0.0097	0.0052	11	1.35	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0515	0.1690	0.0841	0.1599	0.0097	0.0052	11	0.93	OK	1
261.99	Acid Soluble Manganese , Other (0.16%)	0506	0.0030	0.0000	0.1538	0.0247	0.0066	11	-6.11	Low	0
261.99	Acid Soluble Manganese , Other (0.16%)	0027	0.1180	0.0040	0.1538	0.0247	0.0066	11	-1.45	Low	0
261.99	Acid Soluble Manganese , Other (0.16%)	0519	0.1450	0.0100	0.1538	0.0247	0.0066	11	-0.36	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0476	0.1477	0.0031	0.1538	0.0247	0.0066	11	-0.25	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0389	0.1550	0.0100	0.1538	0.0247	0.0066	11	0.05	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0523	0.1565	0.0030	0.1538	0.0247	0.0066	11	0.11	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0501	0.1590	0.0020	0.1538	0.0247	0.0066	11	0.21	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0368	0.1629	0.0024	0.1538	0.0247	0.0066	11	0.37	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0524	0.1650	0.0100	0.1538	0.0247	0.0066	11	0.45	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0255	0.1795	0.0270	0.1538	0.0247	0.0066	11	1.04	High	0
261.99	Acid Soluble Manganese , Other (0.16%)	0042	0.1865	0.0010	0.1538	0.0247	0.0066	11	1.32	High	0
261.99	Acid Soluble Manganese , Other (0.16%)	0515	0.1224	0.0637	0.1538	0.0247	0.0066	11	-1.27	Low	1
271.00	Water Soluble Manganese , AA (%)	0550	0.0096	0.0001	0.0434	0.0494	0.0070	3	-0.68		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
271.00	Water Soluble Manganese , AA (%)	0027	0.0205	0.0010	0.0434	0.0494	0.0070	3	-0.46		0
271.00	Water Soluble Manganese , AA (%)	0532	0.1000	0.0200	0.0434	0.0494	0.0070	3	1.15		0
271.30	Water Soluble Manganese , ICP, Ext. 972.03 (%)	0444	0.0085	0.0010				2			0
271.30	Water Soluble Manganese , ICP, Ext. 972.03 (%)	0543	0.2950	0.1820				2			0
271.99	Water Soluble Manganese , Other (%)	0117	0.0051	0.0006				1			0
281.00	Acid Soluble Mercury , AA (ppm)	0511	40.00	0.0000				1			0
281.30	Acid Soluble Mercury , ICP (ppm)	0515	15.58	0.6300	46.20	23.78	2.595	4	-1.29		0
281.30	Acid Soluble Mercury , ICP (ppm)	0394	39.17	3.410	46.20	23.78	2.595	4	-0.30		0
281.30	Acid Soluble Mercury , ICP (ppm)	0541	65.00	4.000	46.20	23.78	2.595	4	0.79		0
281.30	Acid Soluble Mercury , ICP (ppm)	0527	65.06	2.341	46.20	23.78	2.595	4	0.79		0
281.99	Acid Soluble Mercury , Other (ppm)	0519	16.65	0.3900				2			0
281.99	Acid Soluble Mercury , Other (ppm)	0476	45.39	0.3160				2			0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0543	0.1925	0.0090	796.1	137.5	12.87	11	-5.79	Low	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0519	48.50	5.000	796.1	137.5	12.87	11	-5.44	Low	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0521	672.7	0.0000	796.1	137.5	12.87	11	-0.90	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0035	785.5	1.000	796.1	137.5	12.87	11	-0.08	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0389	843.6	0.3000	796.1	137.5	12.87	11	0.34	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0368	856.0	40.00	796.1	137.5	12.87	11	0.44	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0255	856.7	11.94	796.1	137.5	12.87	11	0.44	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0096	864.7	51.50	796.1	137.5	12.87	11	0.50	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0444	885.0	30.00	796.1	137.5	12.87	11	0.65	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0511	906.0	0.0000	796.1	137.5	12.87	11	0.80	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0524	907.6	1.850	796.1	137.5	12.87	11	0.81	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0541	936.0	200.0	796.1	137.5	12.87	11	1.02	OK	1
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (50ppm)	0394	838.0	42.00				2			0
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (50ppm)	0220	935.0	6.000				2			0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0550	647.0	8.000	869.4	56.77	31.37	8	-3.58	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0423	830.0	18.00	869.4	56.77	31.37	8	-0.63	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0494	844.5	55.00	869.4	56.77	31.37	8	-0.40	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0292	857.0	9.400	869.4	56.77	31.37	8	-0.20	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0546	879.5	63.00	869.4	56.77	31.37	8	0.16	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0117	910.9	87.50	869.4	56.77	31.37	8	0.67	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0527	919.2	10.08	869.4	56.77	31.37	8	0.80	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0037	930.0	0.0000	869.4	56.77	31.37	8	0.98	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0515	718.5	439.5	869.4	56.77	31.37	8	-2.43	OK	1
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (50ppm)	0515	684.4	448.3				2			0
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (50ppm)	0230	753.0	110.0				2			0
289.99	Acid Soluble Molybdenum , Other (50ppm)	0027	66.00	2.000	789.3	628.6	14.61	4	-1.15		0
289.99	Acid Soluble Molybdenum , Other (50ppm)	0042	719.6	42.50	789.3	628.6	14.61	4	-0.11		0
289.99	Acid Soluble Molybdenum , Other (50ppm)	0476	771.5	13.96	789.3	628.6	14.61	4	-0.03		0
289.99	Acid Soluble Molybdenum , Other (50ppm)	0506	1,600	0.0000	789.3	628.6	14.61	4	1.29		0
291.00	Acid Soluble Nickel , AA, test portion as in ... (ppm)	0136	15.50	1.000				2			0
291.00	Acid Soluble Nickel , AA, test portion as in ... (ppm)	0550	19.41	31.64				2			0



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			Value	Range	Rob Mean	Rob SD	R-bar				
291.30	Acid Soluble Nickel , ICP (ppm)	0521	9.720	0.0000	12.68	2.830	0.8348	11	-1.04	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0096	9.750	0.5000	12.68	2.830	0.8348	11	-1.03	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0444	10.25	0.6800	12.68	2.830	0.8348	11	-0.86	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0482	11.10	0.0000	12.68	2.830	0.8348	11	-0.56	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0524	11.94	0.1100	12.68	2.830	0.8348	11	-0.26	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0394	12.40	1.000	12.68	2.830	0.8348	11	-0.10	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0102	12.65	0.8830	12.68	2.830	0.8348	11	-0.01	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0389	13.34	0.2100	12.68	2.830	0.8348	11	0.23	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0511	15.69	0.0000	12.68	2.830	0.8348	11	1.07	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0368	16.00	2.000	12.68	2.830	0.8348	11	1.17	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0035	16.60	3.800	12.68	2.830	0.8348	11	1.39	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0541	31.50	37.00	12.68	2.830	0.8348	11	6.65	NA	1
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0527	13.75	0.2630	15.65	1.194	2.275	5	-1.60		0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0515	15.56	6.635	15.65	1.194	2.275	5	-0.08		0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0117	15.76	1.280	15.65	1.194	2.275	5	0.09		0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0037	16.24	1.508	15.65	1.194	2.275	5	0.49		0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0494	16.96	1.691	15.65	1.194	2.275	5	1.10		0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0230	12.70	4.400				2			0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0515	13.64	1.420				2			0
291.99	Acid Soluble Nickel , Other (ppm)	0476	2.455	0.1265	11.14	5.359	0.9683	5	-1.62		0
291.99	Acid Soluble Nickel , Other (ppm)	0519	10.25	0.0300	11.14	5.359	0.9683	5	-0.17		0
291.99	Acid Soluble Nickel , Other (ppm)	0220	12.50	1.000	11.14	5.359	0.9683	5	0.25		0
291.99	Acid Soluble Nickel , Other (ppm)	0255	13.98	0.8850	11.14	5.359	0.9683	5	0.53		0
291.99	Acid Soluble Nickel , Other (ppm)	0506	16.50	2.800	11.14	5.359	0.9683	5	1.00		0
301.30	Acid Soluble Selenium , ICP (ppm)	0541	122.5	1.000	258.3	101.4	8.213	4	-1.34		0
301.30	Acid Soluble Selenium , ICP (ppm)	0524	239.1	16.85	258.3	101.4	8.213	4	-0.19		0
301.30	Acid Soluble Selenium , ICP (ppm)	0511	332.0	0.0000	258.3	101.4	8.213	4	0.73		0
301.30	Acid Soluble Selenium , ICP (ppm)	0368	339.5	15.00	258.3	101.4	8.213	4	0.80		0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0494	318.1	1.352	333.2	13.74	20.57	5	-1.09		0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0515	318.7	69.58	333.2	13.74	20.57	5	-1.06		0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0527	338.9	2.854	333.2	13.74	20.57	5	0.42		0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0117	343.8	6.800	333.2	13.74	20.57	5	0.77		0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0037	346.3	22.28	333.2	13.74	20.57	5	0.96		0
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0515	285.7	39.14				2			0
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0230	289.0	48.00				2			0
301.99	Acid Soluble Selenium , Other (ppm)	0506	250.0	100.0	309.2	35.67	27.34	5	-1.66		0
301.99	Acid Soluble Selenium , Other (ppm)	0220	310.5	21.00	309.2	35.67	27.34	5	0.04		0
301.99	Acid Soluble Selenium , Other (ppm)	0519	311.7	0.2500	309.2	35.67	27.34	5	0.07		0
301.99	Acid Soluble Selenium , Other (ppm)	0476	331.8	13.79	309.2	35.67	27.34	5	0.63		0
301.99	Acid Soluble Selenium , Other (ppm)	0255	341.9	1.635	309.2	35.67	27.34	5	0.92		0
311.32	Sodium, ICP, 2006.03 test portion (%)	0324	0.3890	0.0460				2			0
311.32	Sodium, ICP, 2006.03 test portion (%)	0521	0.4575	0.0000				2			0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0494	0.4064	0.0456	0.4660	0.0745	0.0303	6	-0.71	Low	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0389	0.4200	0.0000	0.4660	0.0745	0.0303	6	-0.55	OK	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0527	0.4345	0.0090	0.4660	0.0745	0.0303	6	-0.38	OK	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0035	0.4455	0.0710	0.4660	0.0745	0.0303	6	-0.25	OK	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0117	0.5129	0.0423	0.4660	0.0745	0.0303	6	0.56	OK	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0423	0.5770	0.0140	0.4660	0.0745	0.0303	6	1.33	High	0
311.99	Sodium, Other (%)	0511	0.4700	0.0000	0.4800	0.0091	0.0100	4	-1.10		0
311.99	Sodium, Other (%)	0482	0.4750	0.0100	0.4800	0.0091	0.0100	4	-0.55		0
311.99	Sodium, Other (%)	0096	0.4850	0.0300	0.4800	0.0091	0.0100	4	0.55		0
311.99	Sodium, Other (%)	0354	0.4900	0.0000	0.4800	0.0091	0.0100	4	1.10		0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0516	0.1122	0.0093	0.1674	0.0274	0.0074	9	-1.86	Low	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0533	0.1280	0.0020	0.1674	0.0274	0.0074	9	-1.33	Low	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0531	0.1650	0.0100	0.1674	0.0274	0.0074	9	-0.08	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0539	0.1735	0.0030	0.1674	0.0274	0.0074	9	0.20	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0551	0.1750	0.0100	0.1674	0.0274	0.0074	9	0.26	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0040	0.1795	0.0010	0.1674	0.0274	0.0074	9	0.41	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0535	0.1825	0.0050	0.1674	0.0274	0.0074	9	0.51	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0029	0.1830	0.0184	0.1674	0.0274	0.0074	9	0.53	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0169	0.1940	0.0080	0.1674	0.0274	0.0074	9	0.90	High	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0550	0.1600	0.0600	0.1674	0.0274	0.0074	9	-0.25	OK	1
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0234	0.1600	0.0200	0.1910	0.0120	0.0082	20	-2.58	Low	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0230	0.1640	0.0040	0.1910	0.0120	0.0082	20	-2.25	Low	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0096	0.1797	0.0086	0.1910	0.0120	0.0082	20	-0.94	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0360	0.1820	0.0100	0.1910	0.0120	0.0082	20	-0.75	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0354	0.1850	0.0100	0.1910	0.0120	0.0082	20	-0.50	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0402	0.1850	0.0080	0.1910	0.0120	0.0082	20	-0.50	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0444	0.1850	0.0100	0.1910	0.0120	0.0082	20	-0.50	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0102	0.1870	0.0122	0.1910	0.0120	0.0082	20	-0.33	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0035	0.1885	0.0010	0.1910	0.0120	0.0082	20	-0.21	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0433	0.1900	0.0020	0.1910	0.0120	0.0082	20	-0.08	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0472	0.1900	0.0000	0.1910	0.0120	0.0082	20	-0.08	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0390	0.1935	0.0253	0.1910	0.0120	0.0082	20	0.20	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0324	0.1945	0.0070	0.1910	0.0120	0.0082	20	0.29	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0292	0.1950	0.0100	0.1910	0.0120	0.0082	20	0.33	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0482	0.1950	0.0100	0.1910	0.0120	0.0082	20	0.33	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0511	0.1970	0.0000	0.1910	0.0120	0.0082	20	0.50	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0255	0.2000	0.0160	0.1910	0.0120	0.0082	20	0.75	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0231	0.2100	0.0000	0.1910	0.0120	0.0082	20	1.58	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0483	0.2225	0.0010	0.1910	0.0120	0.0082	20	2.62	High	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0307	0.2485	0.0090	0.1910	0.0120	0.0082	20	4.79	High	0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0220	0.1750	0.0100	0.2109	0.0511	0.0104	5	-0.70		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0394	0.1800	0.0020	0.2109	0.0511	0.0104	5	-0.61		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0521	0.1995	0.0000	0.2109	0.0511	0.0104	5	-0.22		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0043	0.2000	0.0200	0.2109	0.0511	0.0104	5	-0.21		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0423	0.3000	0.0200	0.2109	0.0511	0.0104	5	1.74		0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0486	0.1750	0.0100	0.1953	0.0195	0.0103	11	-0.98	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0177	0.1777	0.0036	0.1953	0.0195	0.0103	11	-0.85	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0117	0.1808	0.0027	0.1953	0.0195	0.0103	11	-0.70	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0023	0.1850	0.0120	0.1953	0.0195	0.0103	11	-0.50	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0527	0.1850	0.0000	0.1953	0.0195	0.0103	11	-0.50	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0055	0.1950	0.0100	0.1953	0.0195	0.0103	11	-0.02	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0494	0.1956	0.0018	0.1953	0.0195	0.0103	11	0.01	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0037	0.2010	0.0140	0.1953	0.0195	0.0103	11	0.27	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0136	0.2050	0.0100	0.1953	0.0195	0.0103	11	0.46	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0546	0.2240	0.0180	0.1953	0.0195	0.0103	11	1.38	High	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0515	0.2256	0.0315	0.1953	0.0195	0.0103	11	1.45	High	0
321.99	Acid Soluble Zinc , Other (0.13%)	0506	0.0025	0.0010	0.1516	0.0400	0.0078	10	-3.47	Low	0
321.99	Acid Soluble Zinc , Other (0.13%)	0042	0.1145	0.0050	0.1516	0.0400	0.0078	10	-0.86	Low	0
321.99	Acid Soluble Zinc , Other (0.13%)	0519	0.1200	0.0200	0.1516	0.0400	0.0078	10	-0.73	Low	0
321.99	Acid Soluble Zinc , Other (0.13%)	0027	0.1355	0.0130	0.1516	0.0400	0.0078	10	-0.37	OK	0
321.99	Acid Soluble Zinc , Other (0.13%)	0523	0.1530	0.0080	0.1516	0.0400	0.0078	10	0.03	OK	0
321.99	Acid Soluble Zinc , Other (0.13%)	0476	0.1622	0.0181	0.1516	0.0400	0.0078	10	0.25	OK	0
321.99	Acid Soluble Zinc , Other (0.13%)	0389	0.1720	0.0000	0.1516	0.0400	0.0078	10	0.47	High	0
321.99	Acid Soluble Zinc , Other (0.13%)	0515	0.1779	0.0027	0.1516	0.0400	0.0078	10	0.61	High	0
321.99	Acid Soluble Zinc , Other (0.13%)	0524	0.1900	0.0000	0.1516	0.0400	0.0078	10	0.89	High	0
321.99	Acid Soluble Zinc , Other (0.13%)	0368	0.1993	0.0099	0.1516	0.0400	0.0078	10	1.11	High	0
325.00	Water Soluble Zinc , AA (%)	0550	0.0037	0.0018	0.1618	0.2174	0.1830	5	-0.73		0
325.00	Water Soluble Zinc , AA (%)	0027	0.0500	0.0020	0.1618	0.2174	0.1830	5	-0.51		0
325.00	Water Soluble Zinc , AA (%)	0539	0.1040	0.0120	0.1618	0.2174	0.1830	5	-0.27		0
325.00	Water Soluble Zinc , AA (%)	0532	0.1085	0.0230	0.1618	0.2174	0.1830	5	-0.25		0
325.00	Water Soluble Zinc , AA (%)	0537	0.5430	0.8760	0.1618	0.2174	0.1830	5	1.75		0
325.30	Water Soluble Zinc , ICP (%)	0117	0.0015	0.0003	0.2032	0.2114	0.1108	3	-0.95		0
325.30	Water Soluble Zinc , ICP (%)	0541	0.1850	0.0300	0.2032	0.2114	0.1108	3	-0.09		0
325.30	Water Soluble Zinc , ICP (%)	0543	0.4230	0.3020	0.2032	0.2114	0.1108	3	1.04		0

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 and a 4 flag indicates rejected due to 0 value submitted. A 9 flag indicates a data problem - scores not calculated. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are grey and included for information only. IA Status describes where your result is relative to the Assigned Value  $\pm$  IA. Red indicates Higher or Lower, Green indicates within the IA range. Method 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.