

Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Methods: 137

Sample # 220911

Regular PT Scheme

Labs Reporting: 95

Grade 15-15-15

Statistical Summary

Issue Date : 10/31/2022

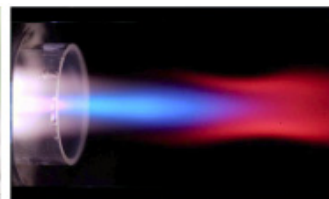
Method Code	Analyte & Method Sample # 220911	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Method Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Method IA Ratio	Average Range (R-bar)	Horwitz %RSD
001.10	Ammoniacal N, Magnesium Oxide Method (%)	6	6	8.848	0.2477	8.848		0.2809	0.1434	3.18%		0.1283	2.88%
001.99	Ammoniacal N, Other (%)	31	31	8.522	0.4287	8.575		0.2932	0.0658	3.42%		0.1159	2.89%
002.99	Nitrate N, Other (%)	27	27	6.390	0.2725	6.410		0.2141	0.0515	3.34%		0.0671	3.02%
005.99	Urea N, Other (%)	1		0.6100									
009.10	Ammoniacal Plus Nitrate N, Devarda (%)	3	3	15.15	0.4249	15.15		0.4249	0.3066	2.80%		0.2000	2.57%
010.10	Total N, Reduced Iron (15%)	1		15.00									
010.11	Total N, Modified Comprehensive (15%)	4	4	14.81	0.1709	14.81	0.6461	0.1709	0.1068	1.15%	0.62	0.0778	2.60%
010.12	Total N, Salicylic (15%)	7	6	14.83	0.3198	14.87	0.6475	0.3637	0.1856	2.44%	1.31	0.0697	2.59%
010.60	Total N, Combustion (15%)	59	58	15.02	0.2488	15.03	0.6507	0.2379	0.0390	1.58%	0.85	0.1132	2.58%
010.99	Total N, Other (15%)	20	19	15.10	0.2570	15.11	0.6523	0.2801	0.0803	1.85%	1.00	0.1028	2.57%
020.10	Total P2O5, Gravimetric Quinolinium MolybdoP (%)	2	2	15.77	0.0460								
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	17	16	15.50	0.4117	15.50		0.3801	0.1188	2.45%		0.1247	2.54%
020.40	Total P2O5, Automated (%)	1		16.05									
020.50	Total P2O5, ICP (%)	15	15	15.49	0.7052	15.45		0.5612	0.1811	3.63%		0.3109	2.54%
020.99	Total P2O5, Other (%)	10	10	15.71	1.307	15.60		1.208	0.4774	7.74%		0.1355	2.53%
030.20	Citrate Insoluble P2O5, Spectrophotometric MolybdovanadoP	1		0.0500									
040.20	Indirect Available P2O5, Spectrophotometric (15%)	1		15.09									
040.99	Indirect Available P2O5, Other (15%)	1		15.70									
041.10	Direct Available P2O5, Gravimetric Quinolinium (15%)	3	3	15.56	0.2524	15.56	0.7000	0.2524	0.1822	1.62%	0.84	0.2605	2.53%
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	7	7	15.33	0.8333	15.57	0.7000	0.2962	0.1400	1.90%	0.99	0.1487	2.53%
041.20	Direct Available P2O5, Spectrophotometric (15%)	3	3	15.88	0.3781	15.88	0.7000	0.3781	0.2728	2.38%	1.26	0.0400	2.51%
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	10	10	14.72	1.097	14.72	0.7000	1.244	0.4918	8.45%	4.14	0.1327	2.61%
041.40	Direct Available P2O5, Automated, Citrate-EDTA Ext. (15%)	1		15.99									
041.50	Direct Available P2O5, ICP (15%)	6	6	15.72	0.5839	15.70	0.7000	0.6033	0.3079	3.84%	2.01	0.2273	2.52%
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (15%)	9	9	15.56	0.4616	15.56	0.7000	0.5235	0.2181	3.36%	1.74	0.1911	2.53%
041.99	Direct Available P2O5, Other (15%)	14	14	15.20	0.5887	15.14	0.7000	0.2578	0.0861	1.70%	0.86	0.1458	2.57%
042.10	Water Soluble OrthoP As P2O5, Spectrophotometric (%)	1		11.54									
048.20	Water Soluble P2O5, Spectrophotometric (%)	1		10.86									
048.30	Water Soluble P2O5, Alkalimetric Quinolinium MolybdoP (%)	1		11.84									

Method Code	Analyte & Method Sample # 220911	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Method Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Method IA Ratio	Average Range (R-bar)	Howitz %RSD
048.50	Water Soluble P2O5, ICP (%)	1		12.08									
048.99	Water Soluble P2O5, Other (%)	2	2	11.70	1.418								
050.00	Soluble K2O, STPB Oxalate (15%)	10	10	15.26	0.4709	15.23	0.9129	0.4424	0.1749	2.91%	1.13	0.2436	2.56%
050.30	Soluble K2O, AA (Oxalate) (15%)	5	5	15.20	0.2563	15.20	0.9120	0.2563	0.1433	1.69%	0.65	0.2174	2.56%
050.32	Soluble K2O, AA (Citrate-EDTA) (15%)	1		14.49									
050.50	Soluble K2O, ICP (Oxalate) (15%)	7	6	15.39	0.5779	15.21	0.9123	0.3921	0.2001	2.58%	1.00	0.1375	2.56%
050.51	Soluble K2O, ICP (Citrate) (15%)	6	5	14.29	2.835	13.93	0.8674	3.019	1.688	21.66%	8.11	0.0473	2.68%
050.52	Soluble K2O, ICP (Citrate-EDTA) (15%)	10	10	15.10	0.4133	15.08	0.9076	0.4095	0.1619	2.72%	1.05	0.1930	2.58%
050.60	Soluble K2O, Flame Photometric (Oxalate) (15%)	5	5	15.12	0.4552	15.12	0.9093	0.4552	0.2545	3.01%	1.17	0.1165	2.57%
050.61	Soluble K2O, Flame Photometric (Citrate) (15%)	1		15.50									
050.62	Soluble K2O, Flame Photometric (Citrate-EDTA) (15%)	3	3	15.82	0.1262	15.82	0.9335	0.1262	0.0911	0.80%	0.31	0.1633	2.51%
050.99	Soluble K2O, Other (15%)	43	42	15.12	0.7742	15.07	0.9076	0.4285	0.0826	2.84%	1.10	0.1974	2.58%
060.00	Water (Free), Vacuum Oven (%)	1		0.7750									
060.99	Water (Free), Other (%)	1		1.329									
101.00	Acid Soluble Ca, AA, inorganic 965.09 (%)	1		3.670									
101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	5	5	4.175	0.8691	4.175	0.4088	0.8691	0.4859	20.82%	4.95	0.0380	3.23%
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	5	5	4.065	0.5201	4.065	0.4033	0.5201	0.2908	12.79%	3.01	0.0400	3.24%
101.99	Acid Soluble Ca, Other (%)	2	2	4.475	1.188								
121.00	Acid Soluble Mg, AA, inorganic 965.09 (%)	1		0.2730									
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	4	4	0.2815	0.0156	0.2815	0.2141	0.0156	0.0097	5.54%	0.17	0.0060	4.84%
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	5	5	0.2774	0.0324	0.2774	0.2139	0.0324	0.0181	11.67%	0.35	0.0060	4.85%
121.99	Acid Soluble Mg, Other (%)	4	4	0.2522	0.0169	0.2522	0.2126	0.0169	0.0106	6.70%	0.19	0.0110	4.92%
131.99	Water Soluble Mg, Other (%)	1		0.0684									
143.00	Elemental S, Gravimetric Sulfur - carbon disulfide soluble sulfu	1		0.1200									
143.99	Elemental S, Other (%)	5	5	5.564	0.7236	5.564		0.7236	0.4045	13.01%		0.0959	3.09%
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	8	8	5.568	0.2761	5.568		0.3131	0.1384	5.62%		0.0600	3.09%
145.99	Sulfate S, HCl soluble, Other (%)	4	4	5.193	0.2864	5.193		0.2864	0.1790	5.52%		0.0650	3.12%
146.00	Total S in Liquid, Gravimetric - sulfate, sulfite, thiosulfate, a...	1		5.795									
148.00	Total S, Combustion (5%)	9	9	5.474	0.1753	5.474	0.4737	0.1988	0.0828	3.63%	0.98	0.2152	3.10%
148.01	Total S, Gravimetric - sulfate and elemental (5%)	11	11	5.566	0.3432	5.554	0.4777	0.3359	0.1266	6.05%	1.64	0.0822	3.09%
148.07	Total S, ICP, test portion as in 2017.02 (5%)	15	15	5.295	0.5879	5.400	0.4700	0.2635	0.0851	4.88%	1.31	0.0833	3.10%
148.99	Total S, Other (5%)	14	13	5.657	1.076	5.376	0.4688	0.2814	0.0976	5.23%	1.40	0.0974	3.11%
149.04	S - HNO3 soluble, ICP (%)	3	3	5.658	0.2468	5.658		0.2468	0.1781	4.36%		0.1142	3.08%
151.00	Acid Soluble As, AA, test portion 2006.03 modified w/dual acid	1		2.000									
151.30	Acid Soluble As, ICP (ppm)	5	4	14.72	10.90	18.40		8.257	5.161	44.89%		1.244	10.32%
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	1		29.50									
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	2	2	13.58	11.78								
151.34	Acid Soluble As, ICP, EPA 3050B/6010C (ppm)	2	2	25.60	4.099								
151.99	Acid Soluble As, Other (ppm)	2	2	6.063	6.149								
165.00	Acid Soluble B, Spectrophotometric (%)	1		0.0080									

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165.30	Acid Soluble B, ICP, test portion in 982.01 (%)	2	2	0.0088	0.0018								
165.99	Acid Soluble B, Other (%)	5	4	0.0072	0.0044	0.0056	0.0038	0.0030	0.0019	53.80%	1.83	0.0001	8.73%
171.99	Water Soluble B, Other (%)	1		0.0106									
181.00	Acid Soluble Cd, AA, test portion 2006.03 modified w/dual acic	1		1.255									
181.30	Acid Soluble Cd, ICP (ppm)	8	7	1.104	0.3911	0.9592		0.2095	0.0990	21.85%		0.0952	16.10%
181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	1		1.000									
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	4	4	1.214	0.0937	1.214		0.0937	0.0586	7.72%		0.0441	15.54%
181.34	Acid Soluble Cd, ICP, EPA 3050B/6010C (ppm)	2	1	0.6505	0.7771								
181.99	Acid Soluble Cd, Other (ppm)	2	2	1.151	0.0435								
190.00	Water Soluble Cl, Titrimetric (%)	2	2	0.3703	0.0145								
191.30	Acid Soluble Cr, ICP (ppm)	7	7	30.53	4.492	29.87		3.436	1.623	11.50%		0.6101	9.59%
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	1		37.00									
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	4	4	32.68	3.393	32.68		3.393	2.120	10.38%		0.4734	9.47%
191.34	Acid Soluble Cr, ICP, EPA 3050B/6010C (ppm)	2	2	35.44	5.356								
191.99	Acid Soluble Cr, Other (ppm)	2	2	33.43	2.013								
202.30	Acid Soluble Co, ICP (ppm)	6	6	2.133	0.4013	2.133	1.6400	0.4550	0.2322	21.33%	0.65	0.3189	14.27%
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	1		3.000									
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	5	4	2.429	0.4795	2.411	1.7233	0.5518	0.3449	22.89%	0.75	0.1913	14.01%
202.34	Acid Soluble Co, ICP, EPA 3050B/6010C (ppm)	1		2.450									
202.99	Acid Soluble Co, Other (ppm)	2	2	14.56	18.56								
221.00	Acid Soluble Cu, AA, inorganic 965.09 (%)	1		0.0050									
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	5	4	0.0033	0.0038	0.0016	0.0052	0.0007	0.0004	41.07%	0.30	0.0002	10.50%
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	3	2	0.0017	0.0015	0.0026	0.0053	0.0006	0.0005	22.18%	0.25	0.0001	9.83%
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	7	6	0.0018	0.0002	0.0018	0.0052	0.0003	0.0001	14.23%	0.12	0.0000	10.35%
221.99	Acid Soluble Cu, Other (%)	7	7	0.0020	0.0003	0.0020	0.0052	0.0000	0.0000	0.00%	0.00	0.0002	10.19%
241.00	Acid Soluble Fe, AA, inorganic 965.09 (%)	1		0.1180									
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	2	2	0.1103	0.0067								
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	5	5	0.1196	0.0086	0.1196	0.0170	0.0086	0.0048	7.21%	1.18	0.0070	5.51%
241.99	Acid Soluble Fe, Other (%)	4	4	0.1079	0.0052	0.1079	0.0158	0.0052	0.0032	4.81%	0.77	0.0013	5.59%
251.00	Acid Soluble Pb, AA, test portion 2006.03 modified w/dual acid	1		0.5500									
251.30	Acid Soluble Pb, ICP (ppm)	7	6	7.057	2.568	6.150		1.133	0.5784	18.43%		0.3773	12.17%
251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	1		9.000									
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	3	3	4.335	0.8336	4.335		0.8336	0.6016	19.23%		0.0257	12.83%
251.34	Acid Soluble Pb, ICP, EPA 3050B/6010C (ppm)	2	1	2.390	2.531								
251.99	Acid Soluble Pb, Other (ppm)	2	2	4.056	1.239								
261.00	Acid Soluble Mn, AA, Mn2+ only (%)	1		0.0080									
261.30	Acid Soluble Mn, ICP, test portion 972.02a (%)	2	1	0.0089	0.0015								
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	4	4	0.0079	0.0008	0.0079	0.0058	0.0008	0.0005	9.81%	0.31	0.0002	8.28%
261.99	Acid Soluble Mn, Other (%)	3	3	0.0071	0.0002	0.0071	0.0057	0.0002	0.0001	2.14%	0.06	0.0001	8.42%
281.00	Acid Soluble Hg, AA (ppm)	2	0	0.3500	0.2121								

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281.30	Acid Soluble Hg, ICP (ppm)	5	0	0.6836	0.9012	0.0071		0.0002		2.14%		0.0000	22.00%
281.99	Acid Soluble Hg, Other (ppm)	4	3	0.0059	0.0043	0.0042		0.0031	0.0023	75.12%		0.0014	22.00%
289.30	Acid Soluble Mo, ICP (ppm)	5	5	1.829	0.9755	1.829	1.5488	0.9755	0.5453	53.32%	1.47	0.0617	14.61%
289.32	Acid Soluble Mo, ICP, 2006.03 (ppm)	1		2.000									
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	6	5	2.218	0.5756	2.162	1.6485	0.6248	0.3493	28.90%	0.88	0.0639	14.24%
289.34	Acid Soluble Mo, ICP, EPA 3050B/6010C (ppm)	2	1	1.439	1.893								
289.99	Acid Soluble Mo, Other (ppm)	2	0	51.55	68.53								
291.30	Acid Soluble Ni, ICP (ppm)	6	6	7.175	0.8820	7.175		1.000	0.5104	13.94%		0.3454	11.89%
291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	1		9.500									
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	4	4	8.765	1.620	8.765		1.620	1.013	18.49%		0.5910	11.54%
291.34	Acid Soluble Ni, ICP, EPA 3050B/6010C (ppm)	2	2	7.144	1.635								
291.99	Acid Soluble Ni, Other (ppm)	2	2	10.13	2.412								
301.30	Acid Soluble Se, ICP (ppm)	3	1	4.236	5.053	10.13		2.412	3.015	23.82%		0.0955	11.29%
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	1		10.00									
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	3	2	23.78	28.37	35.18		28.82	25.47	81.92%		0.9333	9.36%
301.34	Acid Soluble Se, ICP, EPA 3050B/6010C (ppm)	2	1	2.497	1.551								
301.99	Acid Soluble Se, Other (ppm)	3	2	16.36	23.95	24.29		27.74	24.52	114.23%		1.157	9.90%
311.00	Sodium, AA (%)	1		0.2290									
311.33	Sodium, ICP, test portion as in 2017.02 (%)	2	2	0.2576	0.0080								
311.99	Sodium, Other (%)	3	3	0.2566	0.0405	0.2566	0.0307	0.0405	0.0292	15.79%	3.08	0.0083	4.91%
321.00	Acid Soluble Zn, AA, inorganic 965.09 (%)	1		0.0050									
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	8	6	0.4110	1.149	0.0039	0.0054	0.0015	0.0008	37.69%	0.64	0.0004	9.21%
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	3	3	0.0079	0.0019	0.0079	0.0058	0.0019	0.0013	23.41%	0.75	0.0007	8.29%
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	7	6	0.0053	0.0008	0.0055	0.0055	0.0010	0.0005	17.43%	0.40	0.0001	8.76%
321.99	Acid Soluble Zn, Other (%)	7	7	0.0059	0.0014	0.0055	0.0055	0.0006	0.0003	10.46%	0.24	0.0001	8.75%
325.30	Water Soluble Zn, ICP (%)	1		0.0090									
325.99	Water Soluble Zn, Other (%)	1		0.0018									
431.99	Soluble Si in nonliquids, Other (%)	1		0.0541									

The Method IA Ratio = 2.33 * Robust SD / IA at the Method Assigned Value. IA ratios of 1 and less indicate participant data dispersion is as good or less than the IA. Red indicates the IA ratio is significantly greater than 1, Orange indicates marginally greater than 1, Green indicates IA ratio is not significantly greater than 1 and Grey indicates < 6 labs reporting. The Horwitz %RSD is calculated using the Thompson Modification, Analyst,2000,125,385-386.



Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Sample # 220911

Regular PT Scheme

Grade 15-15-15

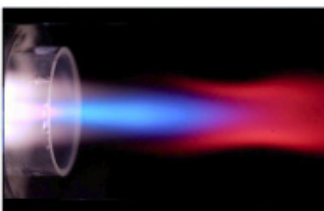
Method Precision Report

Issue Date : 10/31/2022

Method Code	Analyte & Method	# Tests Submitted	# Tests Used in Precision Calcs	Mean	SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
001.10	Ammoniacal N, Magnesium Oxide Method (%)	6	6	8.848	0.2477	0.2314	0.1251	0.2631	2.62%	1.41%	2.97%	2.102
001.99	Ammoniacal N, Other (%)	31	28	8.570	0.2998	0.2929	0.0905	0.3066	3.42%	1.06%	3.58%	3.386
002.99	Nitrate N, Other (%)	27	26	6.425	0.2062	0.2009	0.0656	0.2113	3.13%	1.02%	3.29%	3.222
010.12	Total N, Salicylic (15%)	7	6	14.87	0.3207	0.3180	0.0585	0.3233	2.14%	0.39%	2.17%	5.523
010.60	Total N, Combustion (15%)	59	53	15.04	0.2005	0.1895	0.0928	0.2110	1.26%	0.62%	1.40%	2.274
010.99	Total N, Other (15%)	20	18	15.11	0.2668	0.2622	0.0696	0.2713	1.74%	0.46%	1.80%	3.899
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	17	15	15.54	0.3239	0.3103	0.1311	0.3369	2.00%	0.84%	2.17%	2.569
020.50	Total P2O5, ICP (%)	15	14	15.36	0.5060	0.4536	0.3173	0.5536	2.95%	2.07%	3.60%	1.745
020.99	Total P2O5, Other (%)	10	9	15.40	0.9056	0.9036	0.0857	0.9077	5.87%	0.56%	5.89%	10.59
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA E	7	6	15.64	0.1893	0.1717	0.1128	0.2054	1.10%	0.72%	1.31%	1.821
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext. (	10	9	14.62	1.105	1.103	0.1108	1.108	7.54%	0.76%	7.58%	9.998
041.50	Direct Available P2O5, ICP (15%)	6	6	15.72	0.5839	0.5684	0.1891	0.5990	3.62%	1.20%	3.81%	3.168
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (15%)	9	9	15.56	0.4616	0.4443	0.1773	0.4784	2.85%	1.14%	3.07%	2.698
041.99	Direct Available P2O5, Other (15%)	14	13	15.07	0.3062	0.2962	0.1096	0.3158	1.97%	0.73%	2.10%	2.882
050.00	Soluble K2O, STPB Oxalate (15%)	10	10	15.26	0.4709	0.4337	0.2594	0.5053	2.84%	1.70%	3.31%	1.948
050.50	Soluble K2O, ICP (Oxalate) (15%)	7	5	15.09	0.2137	0.1970	0.1170	0.2292	1.31%	0.78%	1.52%	1.958
050.52	Soluble K2O, ICP (Citrate-EDTA) (15%)	10	9	15.13	0.4233	0.4110	0.1434	0.4353	2.72%	0.95%	2.88%	3.035
050.60	Soluble K2O, Flame Photometric (Oxalate) (15%)	5	5	15.12	0.4552	0.4482	0.1127	0.4621	2.96%	0.75%	3.06%	4.101
050.99	Soluble K2O, Other (15%)	43	39	15.12	0.4159	0.3948	0.1847	0.4359	2.61%	1.22%	2.88%	2.360
143.99	Elemental S, Other (%)	5	5	5.564	0.7236	0.7217	0.0751	0.7256	12.97%	1.35%	13.04%	9.659
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	8	8	5.568	0.2761	0.2731	0.0569	0.2790	4.91%	1.02%	5.01%	4.904
148.00	Total S, Combustion (5%)	9	9	5.474	0.1753	0.1212	0.1792	0.2163	2.21%	3.27%	3.95%	1.207
148.01	Total S, Gravimetric - sulfate and elemental (5%)	11	10	5.557	0.3606	0.3586	0.0539	0.3626	6.45%	0.97%	6.52%	6.733
148.07	Total S, ICP, test portion as in 2017.02 (5%)	15	14	5.434	0.2455	0.2385	0.0823	0.2523	4.39%	1.51%	4.64%	3.065
148.99	Total S, Other (5%)	14	12	5.376	0.2592	0.2553	0.0631	0.2630	4.75%	1.17%	4.89%	4.171
181.30	Acid Soluble Cd, ICP (ppm)	8	6	0.9068	0.1339	0.1287	0.0522	0.1389	14.19%	5.76%	15.31%	2.661

Method Code	Analyte & Method	# Tests Submitted	# Tests Used in Precision Calcs	Mean	SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
191.30	Acid Soluble Cr, ICP (ppm)	7	6	29.01	2.195	2.178	0.3840	2.212	7.51%	1.32%	7.62%	5.759
202.30	Acid Soluble Co, ICP (ppm)	6	5	2.199	0.4110	0.3947	0.1622	0.4267	17.95%	7.37%	19.40%	2.631
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	7	6	0.0018	0.0002	0.0002	0.0000	0.0002	12.44%	2.27%	12.65%	5.577
221.99	Acid Soluble Cu, Other (%)	7	6	0.0020	0.0004	0.0004	0.0001	0.0004	18.03%	5.23%	18.78%	3.593
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	5	5	0.1196	0.0086	0.0071	0.0070	0.0099	5.91%	5.85%	8.31%	1.421
251.30	Acid Soluble Pb, ICP (ppm)	7	6	6.150	0.9994	0.9523	0.4291	1.044	15.48%	6.98%	16.98%	2.434
291.30	Acid Soluble Ni, ICP (ppm)	6	6	7.175	0.8820	0.8521	0.3221	0.9110	11.88%	4.49%	12.70%	2.828
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	8	5	0.0036	0.0017	0.0017	0.0001	0.0017	46.22%	2.79%	46.31%	16.58
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	7	6	0.0055	0.0008	0.0008	0.0001	0.0008	15.35%	1.30%	15.40%	11.87
321.99	Acid Soluble Zn, Other (%)	7	5	0.0053	0.0004	0.0004	0.0000	0.0004	7.68%	0.00%	7.68%	

Notes: Precision data calculated when 5 or more Tests included.



Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Methods: 137

Sample # 220911

Regular PT Scheme

Labs Reporting: 95

Grade 15-15-15

Lab Values

Issue Date : 10/31/2022

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Range				
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0451	8.595	0.1300	8.848	0.2809	0.1283	6	-0.80	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0444	8.600	0.0000	8.848	0.2809	0.1283	6	-0.78	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0452	8.820	0.2800	8.848	0.2809	0.1283	6	-0.09	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0580	8.835	0.0500	8.848	0.2809	0.1283	6	-0.04	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0609	8.985	0.0100	8.848	0.2809	0.1283	6	0.44	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0498	9.250	0.3000	8.848	0.2809	0.1283	6	1.28	NA	0
001.99	Ammoniacal N, Other (%)	0553	6.805	0.2700	8.575	0.2932	0.1159	31	-6.04	NA	0
001.99	Ammoniacal N, Other (%)	0368	7.848	0.1200	8.575	0.2932	0.1159	31	-2.48	NA	0
001.99	Ammoniacal N, Other (%)	0231	7.965	0.0700	8.575	0.2932	0.1159	31	-2.08	NA	0
001.99	Ammoniacal N, Other (%)	0562	8.255	0.0100	8.575	0.2932	0.1159	31	-1.09	NA	0
001.99	Ammoniacal N, Other (%)	0564	8.275	0.0100	8.575	0.2932	0.1159	31	-1.02	NA	0
001.99	Ammoniacal N, Other (%)	0565	8.310	0.0200	8.575	0.2932	0.1159	31	-0.90	NA	0
001.99	Ammoniacal N, Other (%)	0605	8.330	0.1000	8.575	0.2932	0.1159	31	-0.84	NA	0
001.99	Ammoniacal N, Other (%)	0602	8.400	0.0800	8.575	0.2932	0.1159	31	-0.60	NA	0
001.99	Ammoniacal N, Other (%)	0533	8.420	0.3600	8.575	0.2932	0.1159	31	-0.53	NA	0
001.99	Ammoniacal N, Other (%)	0540	8.465	0.1300	8.575	0.2932	0.1159	31	-0.38	NA	0
001.99	Ammoniacal N, Other (%)	0560	8.470	0.0200	8.575	0.2932	0.1159	31	-0.36	NA	0
001.99	Ammoniacal N, Other (%)	0531	8.495	0.0300	8.575	0.2932	0.1159	31	-0.27	NA	0
001.99	Ammoniacal N, Other (%)	0538	8.495	0.0100	8.575	0.2932	0.1159	31	-0.27	NA	0
001.99	Ammoniacal N, Other (%)	0563	8.520	0.1800	8.575	0.2932	0.1159	31	-0.19	NA	0
001.99	Ammoniacal N, Other (%)	0600	8.525	0.1500	8.575	0.2932	0.1159	31	-0.17	NA	0
001.99	Ammoniacal N, Other (%)	0532	8.545	0.0500	8.575	0.2932	0.1159	31	-0.10	NA	0
001.99	Ammoniacal N, Other (%)	0558	8.565	0.0108	8.575	0.2932	0.1159	31	-0.03	NA	0
001.99	Ammoniacal N, Other (%)	0549	8.650	0.1000	8.575	0.2932	0.1159	31	0.26	NA	0
001.99	Ammoniacal N, Other (%)	0548	8.650	0.5000	8.575	0.2932	0.1159	31	0.26	NA	0
001.99	Ammoniacal N, Other (%)	0537	8.675	0.0700	8.575	0.2932	0.1159	31	0.34	NA	0
001.99	Ammoniacal N, Other (%)	0394	8.687	0.0010	8.575	0.2932	0.1159	31	0.38	NA	0
001.99	Ammoniacal N, Other (%)	0510	8.708	0.0512	8.575	0.2932	0.1159	31	0.45	NA	0
001.99	Ammoniacal N, Other (%)	0569	8.745	0.0300	8.575	0.2932	0.1159	31	0.58	NA	0
001.99	Ammoniacal N, Other (%)	0524	8.760	0.5400	8.575	0.2932	0.1159	31	0.63	NA	0
001.99	Ammoniacal N, Other (%)	0027	8.830	0.0400	8.575	0.2932	0.1159	31	0.87	NA	0
001.99	Ammoniacal N, Other (%)	0513	8.860	0.0200	8.575	0.2932	0.1159	31	0.97	NA	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Range				
001.99	Ammoniacal N, Other (%)	0545	8.890	0.0200	8.575	0.2932	0.1159	31	1.07	NA	0
001.99	Ammoniacal N, Other (%)	0572	8.924	0.1907	8.575	0.2932	0.1159	31	1.19	NA	0
001.99	Ammoniacal N, Other (%)	0559	8.945	0.0100	8.575	0.2932	0.1159	31	1.26	NA	0
001.99	Ammoniacal N, Other (%)	0405	9.020	0.0000	8.575	0.2932	0.1159	31	1.52	NA	0
001.99	Ammoniacal N, Other (%)	0255	9.150	0.4000	8.575	0.2932	0.1159	31	1.96	NA	0
002.99	Nitrate N, Other (%)	0368	5.476	0.0830	6.410	0.2141	0.0671	27	-4.36	NA	0
002.99	Nitrate N, Other (%)	0553	5.965	0.0100	6.410	0.2141	0.0671	27	-2.08	NA	0
002.99	Nitrate N, Other (%)	0498	6.100	0.2000	6.410	0.2141	0.0671	27	-1.45	NA	0
002.99	Nitrate N, Other (%)	0562	6.175	0.0500	6.410	0.2141	0.0671	27	-1.10	NA	0
002.99	Nitrate N, Other (%)	0394	6.198	0.0310	6.410	0.2141	0.0671	27	-0.99	NA	0
002.99	Nitrate N, Other (%)	0564	6.265	0.0300	6.410	0.2141	0.0671	27	-0.68	NA	0
002.99	Nitrate N, Other (%)	0602	6.280	0.0400	6.410	0.2141	0.0671	27	-0.61	NA	0
002.99	Nitrate N, Other (%)	0565	6.285	0.0300	6.410	0.2141	0.0671	27	-0.58	NA	0
002.99	Nitrate N, Other (%)	0545	6.300	0.0400	6.410	0.2141	0.0671	27	-0.51	NA	0
002.99	Nitrate N, Other (%)	0027	6.365	0.0500	6.410	0.2141	0.0671	27	-0.21	NA	0
002.99	Nitrate N, Other (%)	0513	6.370	0.0200	6.410	0.2141	0.0671	27	-0.19	NA	0
002.99	Nitrate N, Other (%)	0609	6.390	0.1800	6.410	0.2141	0.0671	27	-0.09	NA	0
002.99	Nitrate N, Other (%)	0231	6.400	0.0000	6.410	0.2141	0.0671	27	-0.05	NA	0
002.99	Nitrate N, Other (%)	0605	6.405	0.1900	6.410	0.2141	0.0671	27	-0.02	NA	0
002.99	Nitrate N, Other (%)	0532	6.455	0.0300	6.410	0.2141	0.0671	27	0.21	NA	0
002.99	Nitrate N, Other (%)	0600	6.475	0.1500	6.410	0.2141	0.0671	27	0.31	NA	0
002.99	Nitrate N, Other (%)	0540	6.480	0.0600	6.410	0.2141	0.0671	27	0.33	NA	0
002.99	Nitrate N, Other (%)	0559	6.485	0.0100	6.410	0.2141	0.0671	27	0.35	NA	0
002.99	Nitrate N, Other (%)	0560	6.490	0.0600	6.410	0.2141	0.0671	27	0.38	NA	0
002.99	Nitrate N, Other (%)	0538	6.495	0.0100	6.410	0.2141	0.0671	27	0.40	NA	0
002.99	Nitrate N, Other (%)	0531	6.505	0.0300	6.410	0.2141	0.0671	27	0.45	NA	0
002.99	Nitrate N, Other (%)	0452	6.545	0.1100	6.410	0.2141	0.0671	27	0.63	NA	0
002.99	Nitrate N, Other (%)	0558	6.575	0.0073	6.410	0.2141	0.0671	27	0.77	NA	0
002.99	Nitrate N, Other (%)	0580	6.655	0.2100	6.410	0.2141	0.0671	27	1.15	NA	0
002.99	Nitrate N, Other (%)	0549	6.755	0.1100	6.410	0.2141	0.0671	27	1.61	NA	0
002.99	Nitrate N, Other (%)	0569	6.815	0.0100	6.410	0.2141	0.0671	27	1.89	NA	0
002.99	Nitrate N, Other (%)	0537	6.830	0.0600	6.410	0.2141	0.0671	27	1.96	NA	0
005.99	Urea N, Other (%)	0524	0.6100	0.1000				1			0
009.10	Ammoniacal Plus Nitrate N, Devarda (%)	0587	14.75	0.3000	15.15	0.4249	0.2000	3	-0.93		0
009.10	Ammoniacal Plus Nitrate N, Devarda (%)	0444	15.10	0.2100	15.15	0.4249	0.2000	3	-0.12		0
009.10	Ammoniacal Plus Nitrate N, Devarda (%)	0537	15.60	0.0900	15.15	0.4249	0.2000	3	1.06		0
010.10	Total N, Reduced Iron (15%)	0444	15.00	0.2000				1			0
010.11	Total N, Modified Comprehensive (15%)	0548	14.60	0.2000	14.81	0.1709	0.0778	4	-1.20		0
010.11	Total N, Modified Comprehensive (15%)	0533	14.76	0.0700	14.81	0.1709	0.0778	4	-0.29		0
010.11	Total N, Modified Comprehensive (15%)	0510	14.86	0.0113	14.81	0.1709	0.0778	4	0.32		0
010.11	Total N, Modified Comprehensive (15%)	0531	15.01	0.0300	14.81	0.1709	0.0778	4	1.17		0
010.12	Total N, Salicylic (15%)	0117	14.41	0.0180	14.87	0.3637	0.0697	6	-1.14	OK	0
010.12	Total N, Salicylic (15%)	0602	14.68	0.1200	14.87	0.3637	0.0697	6	-0.48	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Range				
010.12	Total N, Salicylic (15%)	0481	14.82	0.0800	14.87	0.3637	0.0697	6	-0.13	OK	0
010.12	Total N, Salicylic (15%)	0580	14.98	0.1000	14.87	0.3637	0.0697	6	0.26	OK	0
010.12	Total N, Salicylic (15%)	0568	15.01	0.0000	14.87	0.3637	0.0697	6	0.33	OK	0
010.12	Total N, Salicylic (15%)	0498	15.35	0.1000	14.87	0.3637	0.0697	6	1.16	OK	0
010.12	Total N, Salicylic (15%)	0572	14.53	0.5799	14.87	0.3637	0.0697	6	-0.83	OK	1
010.60	Total N, Combustion (15%)	0521	14.24	0.0000	15.03	0.2379	0.1132	58	-3.33	Low	0
010.60	Total N, Combustion (15%)	0230	14.50	0.0000	15.03	0.2379	0.1132	58	-2.24	OK	0
010.60	Total N, Combustion (15%)	0024	14.65	0.5000	15.03	0.2379	0.1132	58	-1.61	OK	0
010.60	Total N, Combustion (15%)	0324	14.65	0.5000	15.03	0.2379	0.1132	58	-1.61	OK	0
010.60	Total N, Combustion (15%)	0422	14.66	0.0300	15.03	0.2379	0.1132	58	-1.59	OK	0
010.60	Total N, Combustion (15%)	0102	14.68	0.0900	15.03	0.2379	0.1132	58	-1.51	OK	0
010.60	Total N, Combustion (15%)	0472	14.68	0.0200	15.03	0.2379	0.1132	58	-1.48	OK	0
010.60	Total N, Combustion (15%)	0360	14.73	0.2000	15.03	0.2379	0.1132	58	-1.27	OK	0
010.60	Total N, Combustion (15%)	0234	14.74	0.3200	15.03	0.2379	0.1132	58	-1.23	OK	0
010.60	Total N, Combustion (15%)	0255	14.74	0.0050	15.03	0.2379	0.1132	58	-1.23	OK	0
010.60	Total N, Combustion (15%)	0072	14.77	0.0600	15.03	0.2379	0.1132	58	-1.11	OK	0
010.60	Total N, Combustion (15%)	0095	14.81	0.0000	15.03	0.2379	0.1132	58	-0.94	OK	0
010.60	Total N, Combustion (15%)	0025	14.88	0.3100	15.03	0.2379	0.1132	58	-0.67	OK	0
010.60	Total N, Combustion (15%)	0073	14.88	0.0600	15.03	0.2379	0.1132	58	-0.64	OK	0
010.60	Total N, Combustion (15%)	0444	14.90	0.0000	15.03	0.2379	0.1132	58	-0.56	OK	0
010.60	Total N, Combustion (15%)	0307	14.94	0.1000	15.03	0.2379	0.1132	58	-0.39	OK	0
010.60	Total N, Combustion (15%)	0035	14.95	0.1000	15.03	0.2379	0.1132	58	-0.35	OK	0
010.60	Total N, Combustion (15%)	0451	14.95	0.1800	15.03	0.2379	0.1132	58	-0.35	OK	0
010.60	Total N, Combustion (15%)	0389	14.96	0.0300	15.03	0.2379	0.1132	58	-0.33	OK	0
010.60	Total N, Combustion (15%)	0086	14.96	0.1190	15.03	0.2379	0.1132	58	-0.31	OK	0
010.60	Total N, Combustion (15%)	0292	14.97	0.0100	15.03	0.2379	0.1132	58	-0.29	OK	0
010.60	Total N, Combustion (15%)	0481	14.97	0.0300	15.03	0.2379	0.1132	58	-0.29	OK	0
010.60	Total N, Combustion (15%)	0231	14.97	0.0000	15.03	0.2379	0.1132	58	-0.27	OK	0
010.60	Total N, Combustion (15%)	0136	15.00	0.2000	15.03	0.2379	0.1132	58	-0.14	OK	0
010.60	Total N, Combustion (15%)	0368	15.00	0.0000	15.03	0.2379	0.1132	58	-0.14	OK	0
010.60	Total N, Combustion (15%)	0534	15.00	0.0000	15.03	0.2379	0.1132	58	-0.14	OK	0
010.60	Total N, Combustion (15%)	0023	15.00	0.0700	15.03	0.2379	0.1132	58	-0.13	OK	0
010.60	Total N, Combustion (15%)	0114	15.01	0.4000	15.03	0.2379	0.1132	58	-0.10	OK	0
010.60	Total N, Combustion (15%)	0356	15.03	0.0100	15.03	0.2379	0.1132	58	-0.02	OK	0
010.60	Total N, Combustion (15%)	0443	15.06	0.0200	15.03	0.2379	0.1132	58	0.11	OK	0
010.60	Total N, Combustion (15%)	0587	15.08	0.1100	15.03	0.2379	0.1132	58	0.18	OK	0
010.60	Total N, Combustion (15%)	0494	15.09	0.1000	15.03	0.2379	0.1132	58	0.24	OK	0
010.60	Total N, Combustion (15%)	0055	15.12	0.0700	15.03	0.2379	0.1132	58	0.34	OK	0
010.60	Total N, Combustion (15%)	0029	15.13	0.0500	15.03	0.2379	0.1132	58	0.39	OK	0
010.60	Total N, Combustion (15%)	0561	15.13	0.0300	15.03	0.2379	0.1132	58	0.39	OK	0
010.60	Total N, Combustion (15%)	0177	15.13	0.0600	15.03	0.2379	0.1132	58	0.40	OK	0
010.60	Total N, Combustion (15%)	0049	15.16	0.1000	15.03	0.2379	0.1132	58	0.53	OK	0
010.60	Total N, Combustion (15%)	0106	15.17	0.0300	15.03	0.2379	0.1132	58	0.55	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Range				
010.60	Total N, Combustion (15%)	0452	15.18	0.1700	15.03	0.2379	0.1132	58	0.60	OK	0
010.60	Total N, Combustion (15%)	0043	15.18	0.0200	15.03	0.2379	0.1132	58	0.62	OK	0
010.60	Total N, Combustion (15%)	0034	15.19	0.0600	15.03	0.2379	0.1132	58	0.66	OK	0
010.60	Total N, Combustion (15%)	0405	15.19	0.0600	15.03	0.2379	0.1132	58	0.66	OK	0
010.60	Total N, Combustion (15%)	0377	15.20	0.1900	15.03	0.2379	0.1132	58	0.68	OK	0
010.60	Total N, Combustion (15%)	0007	15.20	0.0000	15.03	0.2379	0.1132	58	0.70	OK	0
010.60	Total N, Combustion (15%)	0042	15.20	0.0000	15.03	0.2379	0.1132	58	0.70	OK	0
010.60	Total N, Combustion (15%)	0157	15.20	0.0000	15.03	0.2379	0.1132	58	0.70	OK	0
010.60	Total N, Combustion (15%)	0233	15.20	0.1200	15.03	0.2379	0.1132	58	0.70	OK	0
010.60	Total N, Combustion (15%)	0354	15.20	0.0000	15.03	0.2379	0.1132	58	0.70	OK	0
010.60	Total N, Combustion (15%)	0291	15.21	0.0100	15.03	0.2379	0.1132	58	0.72	OK	0
010.60	Total N, Combustion (15%)	0131	15.23	0.0210	15.03	0.2379	0.1132	58	0.83	OK	0
010.60	Total N, Combustion (15%)	0485	15.26	0.2300	15.03	0.2379	0.1132	58	0.93	OK	0
010.60	Total N, Combustion (15%)	0169	15.28	0.0100	15.03	0.2379	0.1132	58	1.02	OK	0
010.60	Total N, Combustion (15%)	0040	15.30	0.0000	15.03	0.2379	0.1132	58	1.12	OK	0
010.60	Total N, Combustion (15%)	0527	15.31	0.3030	15.03	0.2379	0.1132	58	1.17	OK	0
010.60	Total N, Combustion (15%)	0421	15.33	0.3100	15.03	0.2379	0.1132	58	1.23	OK	0
010.60	Total N, Combustion (15%)	0260	15.45	0.5000	15.03	0.2379	0.1132	58	1.75	OK	0
010.60	Total N, Combustion (15%)	0609	15.45	0.1000	15.03	0.2379	0.1132	58	1.75	OK	0
010.60	Total N, Combustion (15%)	0027	15.61	0.5500	15.03	0.2379	0.1132	58	2.40	OK	0
010.60	Total N, Combustion (15%)	0325	14.75	0.8900	15.03	0.2379	0.1132	58	-1.21	OK	1
010.99	Total N, Other (15%)	0476	14.58	0.2261	15.11	0.2801	0.1028	19	-1.89	OK	0
010.99	Total N, Other (15%)	0602	14.68	0.1200	15.11	0.2801	0.1028	19	-1.55	OK	0
010.99	Total N, Other (15%)	0524	14.79	0.1213	15.11	0.2801	0.1028	19	-1.14	OK	0
010.99	Total N, Other (15%)	0394	14.88	0.0320	15.11	0.2801	0.1028	19	-0.82	OK	0
010.99	Total N, Other (15%)	0540	14.99	0.0400	15.11	0.2801	0.1028	19	-0.44	OK	0
010.99	Total N, Other (15%)	0538	15.00	0.0200	15.11	0.2801	0.1028	19	-0.41	OK	0
010.99	Total N, Other (15%)	0532	15.03	0.0700	15.11	0.2801	0.1028	19	-0.32	OK	0
010.99	Total N, Other (15%)	0563	15.05	0.5900	15.11	0.2801	0.1028	19	-0.25	OK	0
010.99	Total N, Other (15%)	0556	15.10	0.2000	15.11	0.2801	0.1028	19	-0.05	OK	0
010.99	Total N, Other (15%)	0508	15.13	0.0500	15.11	0.2801	0.1028	19	0.04	OK	0
010.99	Total N, Other (15%)	0558	15.14	0.0035	15.11	0.2801	0.1028	19	0.09	OK	0
010.99	Total N, Other (15%)	0560	15.16	0.0500	15.11	0.2801	0.1028	19	0.15	OK	0
010.99	Total N, Other (15%)	0600	15.18	0.1500	15.11	0.2801	0.1028	19	0.22	OK	0
010.99	Total N, Other (15%)	0545	15.19	0.0200	15.11	0.2801	0.1028	19	0.27	OK	0
010.99	Total N, Other (15%)	0513	15.27	0.0600	15.11	0.2801	0.1028	19	0.56	OK	0
010.99	Total N, Other (15%)	0559	15.43	0.0100	15.11	0.2801	0.1028	19	1.11	OK	0
010.99	Total N, Other (15%)	0562	15.45	0.1000	15.11	0.2801	0.1028	19	1.20	OK	0
010.99	Total N, Other (15%)	0564	15.50	0.0600	15.11	0.2801	0.1028	19	1.38	OK	0
010.99	Total N, Other (15%)	0565	15.51	0.0300	15.11	0.2801	0.1028	19	1.40	OK	0
010.99	Total N, Other (15%)	0518	14.90	0.9800	15.11	0.2801	0.1028	19	-0.76	OK	1
020.10	Total P2O5, Gravimetric Quinolinium MolybdoP (%)	0073	15.74	0.0100				2			0
020.10	Total P2O5, Gravimetric Quinolinium MolybdoP (%)	0444	15.80	0.1000				2			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Range				
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0609	14.46	0.0700	15.50	0.3801	0.1247	16	-2.75	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0481	14.99	0.3200	15.50	0.3801	0.1247	16	-1.34	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0534	15.07	0.0200	15.50	0.3801	0.1247	16	-1.13	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0548	15.20	0.2000	15.50	0.3801	0.1247	16	-0.79	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0563	15.30	0.3400	15.50	0.3801	0.1247	16	-0.52	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0169	15.36	0.0200	15.50	0.3801	0.1247	16	-0.36	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0580	15.49	0.1000	15.50	0.3801	0.1247	16	-0.02	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0510	15.52	0.0283	15.50	0.3801	0.1247	16	0.07	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0292	15.57	0.3810	15.50	0.3801	0.1247	16	0.19	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0602	15.59	0.1100	15.50	0.3801	0.1247	16	0.23	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0324	15.70	0.0000	15.50	0.3801	0.1247	16	0.53	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0394	15.71	0.0340	15.50	0.3801	0.1247	16	0.56	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0405	15.75	0.0300	15.50	0.3801	0.1247	16	0.65	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0231	15.79	0.0100	15.50	0.3801	0.1247	16	0.75	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0356	15.95	0.2920	15.50	0.3801	0.1247	16	1.19	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0561	16.18	0.0400	15.50	0.3801	0.1247	16	1.79	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0498	15.85	0.7000	15.50	0.3801	0.1247	16	0.92	NA	1
020.40	Total P2O5, Automated (%)	0035	16.05	0.7000				1			0
020.50	Total P2O5, ICP (%)	0260	14.26	0.8200	15.45	0.5612	0.3109	15	-2.12	NA	0
020.50	Total P2O5, ICP (%)	0307	14.60	0.2000	15.45	0.5612	0.3109	15	-1.51	NA	0
020.50	Total P2O5, ICP (%)	0451	15.03	0.3800	15.45	0.5612	0.3109	15	-0.74	NA	0
020.50	Total P2O5, ICP (%)	0472	15.04	0.0800	15.45	0.5612	0.3109	15	-0.73	NA	0
020.50	Total P2O5, ICP (%)	0368	15.11	0.0351	15.45	0.5612	0.3109	15	-0.60	NA	0
020.50	Total P2O5, ICP (%)	0389	15.33	0.1900	15.45	0.5612	0.3109	15	-0.22	NA	0
020.50	Total P2O5, ICP (%)	0234	15.40	0.9100	15.45	0.5612	0.3109	15	-0.09	NA	0
020.50	Total P2O5, ICP (%)	0444	15.56	0.0100	15.45	0.5612	0.3109	15	0.19	NA	0
020.50	Total P2O5, ICP (%)	0255	15.59	0.2680	15.45	0.5612	0.3109	15	0.25	NA	0
020.50	Total P2O5, ICP (%)	0527	15.72	0.0102	15.45	0.5612	0.3109	15	0.48	NA	0
020.50	Total P2O5, ICP (%)	0521	15.72	0.0000	15.45	0.5612	0.3109	15	0.49	NA	0
020.50	Total P2O5, ICP (%)	0524	15.81	0.9917	15.45	0.5612	0.3109	15	0.65	NA	0
020.50	Total P2O5, ICP (%)	0542	15.95	0.1864	15.45	0.5612	0.3109	15	0.90	NA	0
020.50	Total P2O5, ICP (%)	0291	15.97	0.0100	15.45	0.5612	0.3109	15	0.92	NA	0
020.50	Total P2O5, ICP (%)	0422	17.34	0.5728	15.45	0.5612	0.3109	15	3.36	NA	0
020.99	Total P2O5, Other (%)	0564	14.28	0.0500	15.60	1.208	0.1355	10	-1.02	NA	0
020.99	Total P2O5, Other (%)	0565	14.30	0.0400	15.60	1.208	0.1355	10	-1.00	NA	0
020.99	Total P2O5, Other (%)	0559	14.61	0.0100	15.60	1.208	0.1355	10	-0.77	NA	0
020.99	Total P2O5, Other (%)	0556	15.40	0.2000	15.60	1.208	0.1355	10	-0.16	NA	0
020.99	Total P2O5, Other (%)	0587	15.43	0.0100	15.60	1.208	0.1355	10	-0.14	NA	0
020.99	Total P2O5, Other (%)	0513	15.68	0.0500	15.60	1.208	0.1355	10	0.06	NA	0
020.99	Total P2O5, Other (%)	0476	15.77	0.1105	15.60	1.208	0.1355	10	0.13	NA	0
020.99	Total P2O5, Other (%)	0572	16.09	0.0882	15.60	1.208	0.1355	10	0.37	NA	0
020.99	Total P2O5, Other (%)	0515	17.06	0.2560	15.60	1.208	0.1355	10	1.13	NA	0
020.99	Total P2O5, Other (%)	0443	18.53	0.5400	15.60	1.208	0.1355	10	2.25	NA	0

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			Value	Range	Rob Mean	Rob SD	Range				
030.20	Citrate Insoluble P2O5, Spectrophotometric MolybdovanadoP (	0405	0.0500	0.0000				1			0
040.20	Indirect Available P2O5, Spectrophotometric (15%)	0558	15.09	0.0550				1			0
040.99	Indirect Available P2O5, Other (15%)	0405	15.70	0.0300				1			0
041.10	Direct Available P2O5, Gravimetric Quinolinium (15%)	0177	15.28	0.1916	15.56	0.2524	0.2605	3	-1.11		0
041.10	Direct Available P2O5, Gravimetric Quinolinium (15%)	0494	15.63	0.5200	15.56	0.2524	0.2605	3	0.27		0
041.10	Direct Available P2O5, Gravimetric Quinolinium (15%)	0102	15.78	0.0700	15.56	0.2524	0.2605	3	0.84		0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0095	13.49	0.4500	15.57	0.2962	0.1487	7	-6.36	Low	0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0049	15.36	0.3700	15.57	0.2962	0.1487	7	-0.65	OK	0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0405	15.53	0.0000	15.57	0.2962	0.1487	7	-0.12	OK	0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0513	15.58	0.0200	15.57	0.2962	0.1487	7	0.04	OK	0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0072	15.72	0.0410	15.57	0.2962	0.1487	7	0.45	OK	0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0055	15.82	0.0600	15.57	0.2962	0.1487	7	0.77	OK	0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0485	15.85	0.1000	15.57	0.2962	0.1487	7	0.86	OK	0
041.20	Direct Available P2O5, Spectrophotometric (15%)	0452	15.59	0.0200	15.88	0.3781	0.0400	3	-0.78		0
041.20	Direct Available P2O5, Spectrophotometric (15%)	0553	15.75	0.1000	15.88	0.3781	0.0400	3	-0.35		0
041.20	Direct Available P2O5, Spectrophotometric (15%)	0027	16.31	0.0000	15.88	0.3781	0.0400	3	1.13		0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0055	13.12	0.0100	14.72	1.244	0.1327	10	-1.20	Low	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0177	13.27	0.0570	14.72	1.244	0.1327	10	-1.09	Low	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0472	13.73	0.1000	14.72	1.244	0.1327	10	-0.74	Low	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0568	14.30	0.0000	14.72	1.244	0.1327	10	-0.32	OK	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0609	14.43	0.0400	14.72	1.244	0.1327	10	-0.22	OK	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0106	15.47	0.4500	14.72	1.244	0.1327	10	0.55	High	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0354	15.50	0.0000	14.72	1.244	0.1327	10	0.58	High	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0394	15.58	0.0100	14.72	1.244	0.1327	10	0.64	High	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0230	15.70	0.6000	14.72	1.244	0.1327	10	0.73	High	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0231	16.15	0.0600	14.72	1.244	0.1327	10	1.07	High	0
041.40	Direct Available P2O5, Automated, Citrate-EDTA Ext. (15%)	0029	15.99	0.0600				1			0
041.50	Direct Available P2O5, ICP (15%)	0325	15.05	0.3000	15.70	0.6033	0.2273	6	-0.95	OK	0
041.50	Direct Available P2O5, ICP (15%)	0605	15.40	0.4400	15.70	0.6033	0.2273	6	-0.44	OK	0
041.50	Direct Available P2O5, ICP (15%)	0131	15.46	0.1240	15.70	0.6033	0.2273	6	-0.34	OK	0
041.50	Direct Available P2O5, ICP (15%)	0421	15.80	0.2000	15.70	0.6033	0.2273	6	0.15	OK	0
041.50	Direct Available P2O5, ICP (15%)	0508	15.86	0.0000	15.70	0.6033	0.2273	6	0.24	OK	0
041.50	Direct Available P2O5, ICP (15%)	0007	16.75	0.3000	15.70	0.6033	0.2273	6	1.56	High	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (15%)	0072	15.01	0.0300	15.56	0.5235	0.1911	9	-0.99	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (15%)	0377	15.15	0.0600	15.56	0.5235	0.1911	9	-0.73	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (15%)	0136	15.25	0.1000	15.56	0.5235	0.1911	9	-0.55	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (15%)	0360	15.28	0.1600	15.56	0.5235	0.1911	9	-0.50	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (15%)	0025	15.35	0.1000	15.56	0.5235	0.1911	9	-0.38	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (15%)	0023	15.75	0.1000	15.56	0.5235	0.1911	9	0.33	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (15%)	0043	15.84	0.2100	15.56	0.5235	0.1911	9	0.48	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (15%)	0494	16.21	0.4600	15.56	0.5235	0.1911	9	1.14	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (15%)	0040	16.25	0.5000	15.56	0.5235	0.1911	9	1.21	OK	0
041.99	Direct Available P2O5, Other (15%)	0562	14.35	0.1000	15.14	0.2578	0.1458	14	-3.07	Low	0

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			Value	Range	Rob Mean	Rob SD	Range				
041.99	Direct Available P2O5, Other (15%)	0600	14.55	0.2000	15.14	0.2578	0.1458	14	-2.30	OK	0
041.99	Direct Available P2O5, Other (15%)	0538	15.00	0.0300	15.14	0.2578	0.1458	14	-0.57	OK	0
041.99	Direct Available P2O5, Other (15%)	0540	15.03	0.1400	15.14	0.2578	0.1458	14	-0.43	OK	0
041.99	Direct Available P2O5, Other (15%)	0531	15.05	0.1100	15.14	0.2578	0.1458	14	-0.38	OK	0
041.99	Direct Available P2O5, Other (15%)	0532	15.12	0.0900	15.14	0.2578	0.1458	14	-0.11	OK	0
041.99	Direct Available P2O5, Other (15%)	0560	15.12	0.0900	15.14	0.2578	0.1458	14	-0.11	OK	0
041.99	Direct Available P2O5, Other (15%)	0549	15.12	0.0200	15.14	0.2578	0.1458	14	-0.09	OK	0
041.99	Direct Available P2O5, Other (15%)	0569	15.24	0.0300	15.14	0.2578	0.1458	14	0.36	OK	0
041.99	Direct Available P2O5, Other (15%)	0537	15.25	0.0800	15.14	0.2578	0.1458	14	0.42	OK	0
041.99	Direct Available P2O5, Other (15%)	0545	15.25	0.2600	15.14	0.2578	0.1458	14	0.42	OK	0
041.99	Direct Available P2O5, Other (15%)	0518	15.31	0.3400	15.14	0.2578	0.1458	14	0.65	OK	0
041.99	Direct Available P2O5, Other (15%)	0533	15.49	0.1500	15.14	0.2578	0.1458	14	1.33	OK	0
041.99	Direct Available P2O5, Other (15%)	0572	16.97	0.4009	15.14	0.2578	0.1458	14	7.10	High	0
042.10	Water Soluble OrthoP As P2O5, Spectrophotometric (%)	0609	11.54	0.0200				1			0
048.20	Water Soluble P2O5, Spectrophotometric (%)	0472	10.86	0.2200				1			0
048.30	Water Soluble P2O5, Alkalimetric Quinolinium MolybdoP (%)	0444	11.84	0.0600				1			0
048.50	Water Soluble P2O5, ICP (%)	0444	12.08	0.2400				1			0
048.99	Water Soluble P2O5, Other (%)	0513	10.70	0.0900				2			0
048.99	Water Soluble P2O5, Other (%)	0572	12.70	0.7217				2			0
050.00	Soluble K2O, STPB Oxalate (15%)	0049	14.66	0.8500	15.23	0.4424	0.2436	10	-1.20	OK	0
050.00	Soluble K2O, STPB Oxalate (15%)	0102	14.80	0.6100	15.23	0.4424	0.2436	10	-0.91	OK	0
050.00	Soluble K2O, STPB Oxalate (15%)	0072	14.88	0.1760	15.23	0.4424	0.2436	10	-0.72	OK	0
050.00	Soluble K2O, STPB Oxalate (15%)	0444	15.18	0.0000	15.23	0.4424	0.2436	10	-0.10	OK	0
050.00	Soluble K2O, STPB Oxalate (15%)	0055	15.23	0.1300	15.23	0.4424	0.2436	10	0.00	OK	0
050.00	Soluble K2O, STPB Oxalate (15%)	0231	15.28	0.0000	15.23	0.4424	0.2436	10	0.11	OK	0
050.00	Soluble K2O, STPB Oxalate (15%)	0561	15.29	0.0200	15.23	0.4424	0.2436	10	0.14	OK	0
050.00	Soluble K2O, STPB Oxalate (15%)	0494	15.30	0.3600	15.23	0.4424	0.2436	10	0.16	OK	0
050.00	Soluble K2O, STPB Oxalate (15%)	0405	15.76	0.0200	15.23	0.4424	0.2436	10	1.12	OK	0
050.00	Soluble K2O, STPB Oxalate (15%)	0114	16.27	0.2700	15.23	0.4424	0.2436	10	2.18	High	0
050.30	Soluble K2O, AA (Oxalate) (15%)	0040	14.90	0.0000	15.20	0.2563	0.2174	5	-1.17		0
050.30	Soluble K2O, AA (Oxalate) (15%)	0356	15.09	0.0230	15.20	0.2563	0.2174	5	-0.44		0
050.30	Soluble K2O, AA (Oxalate) (15%)	0558	15.20	0.0238	15.20	0.2563	0.2174	5	0.00		0
050.30	Soluble K2O, AA (Oxalate) (15%)	0073	15.21	0.2400	15.20	0.2563	0.2174	5	0.04		0
050.30	Soluble K2O, AA (Oxalate) (15%)	0307	15.60	0.8000	15.20	0.2563	0.2174	5	1.56		0
050.32	Soluble K2O, AA (Citrate-EDTA) (15%)	0472	14.49	0.2300				1			0
050.50	Soluble K2O, ICP (Oxalate) (15%)	0055	14.76	0.0400	15.21	0.3921	0.1375	6	-1.02	OK	0
050.50	Soluble K2O, ICP (Oxalate) (15%)	0444	15.02	0.0200	15.21	0.3921	0.1375	6	-0.43	OK	0
050.50	Soluble K2O, ICP (Oxalate) (15%)	0106	15.13	0.3500	15.21	0.3921	0.1375	6	-0.19	OK	0
050.50	Soluble K2O, ICP (Oxalate) (15%)	0230	15.25	0.1000	15.21	0.3921	0.1375	6	0.10	OK	0
050.50	Soluble K2O, ICP (Oxalate) (15%)	0292	15.30	0.0500	15.21	0.3921	0.1375	6	0.20	OK	0
050.50	Soluble K2O, ICP (Oxalate) (15%)	0422	16.50	0.2650	15.21	0.3921	0.1375	6	2.95	High	0
050.50	Soluble K2O, ICP (Oxalate) (15%)	0324	15.75	1.100	15.21	0.3921	0.1375	6	1.23	OK	1
050.51	Soluble K2O, ICP (Citrate) (15%)	0131	8.545	0.0060	13.93	3.019	0.0473	5	-1.56		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Range				
050.51	Soluble K2O, ICP (Citrate) (15%)	0291	15.08	0.1000	13.93	3.019	0.0473	5	0.33		0
050.51	Soluble K2O, ICP (Citrate) (15%)	0368	15.12	0.0705	13.93	3.019	0.0473	5	0.34		0
050.51	Soluble K2O, ICP (Citrate) (15%)	0568	15.40	0.0000	13.93	3.019	0.0473	5	0.42		0
050.51	Soluble K2O, ICP (Citrate) (15%)	0452	15.53	0.0600	13.93	3.019	0.0473	5	0.46		0
050.51	Soluble K2O, ICP (Citrate) (15%)	0007	16.05	0.7000	13.93	3.019	0.0473	5	0.61		1
050.52	Soluble K2O, ICP (Citrate-EDTA) (15%)	0025	14.75	0.1000	15.08	0.4095	0.1930	10	-0.74	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (15%)	0072	14.80	0.2300	15.08	0.4095	0.1930	10	-0.64	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (15%)	0377	14.80	0.7100	15.08	0.4095	0.1930	10	-0.64	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (15%)	0485	14.80	0.0000	15.08	0.4095	0.1930	10	-0.63	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (15%)	0360	14.89	0.0400	15.08	0.4095	0.1930	10	-0.42	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (15%)	0354	14.95	0.1000	15.08	0.4095	0.1930	10	-0.28	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (15%)	0043	15.04	0.2100	15.08	0.4095	0.1930	10	-0.09	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (15%)	0023	15.50	0.0000	15.08	0.4095	0.1930	10	0.96	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (15%)	0136	15.55	0.5000	15.08	0.4095	0.1930	10	1.08	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (15%)	0494	15.94	0.0400	15.08	0.4095	0.1930	10	1.96	OK	0
050.60	Soluble K2O, Flame Photometric (Oxalate) (15%)	0443	14.72	0.3000	15.12	0.4552	0.1165	5	-0.88		0
050.60	Soluble K2O, Flame Photometric (Oxalate) (15%)	0510	14.82	0.0024	15.12	0.4552	0.1165	5	-0.66		0
050.60	Soluble K2O, Flame Photometric (Oxalate) (15%)	0609	14.89	0.1200	15.12	0.4552	0.1165	5	-0.51		0
050.60	Soluble K2O, Flame Photometric (Oxalate) (15%)	0169	15.39	0.0100	15.12	0.4552	0.1165	5	0.58		0
050.60	Soluble K2O, Flame Photometric (Oxalate) (15%)	0580	15.80	0.1500	15.12	0.4552	0.1165	5	1.48		0
050.61	Soluble K2O, Flame Photometric (Citrate) (15%)	0035	15.50	0.2000				1			0
050.62	Soluble K2O, Flame Photometric (Citrate-EDTA) (15%)	0513	15.68	0.1500	15.82	0.1262	0.1633	3	-1.11		0
050.62	Soluble K2O, Flame Photometric (Citrate-EDTA) (15%)	0095	15.85	0.1800	15.82	0.1262	0.1633	3	0.28		0
050.62	Soluble K2O, Flame Photometric (Citrate-EDTA) (15%)	0029	15.92	0.1600	15.82	0.1262	0.1633	3	0.83		0
050.99	Soluble K2O, Other (15%)	0515	11.85	0.3396	15.07	0.4285	0.1974	42	-7.52	Low	0
050.99	Soluble K2O, Other (15%)	0307	14.45	1.100	15.07	0.4285	0.1974	42	-1.46	OK	0
050.99	Soluble K2O, Other (15%)	0476	14.48	0.1143	15.07	0.4285	0.1974	42	-1.39	OK	0
050.99	Soluble K2O, Other (15%)	0325	14.50	0.0000	15.07	0.4285	0.1974	42	-1.34	OK	0
050.99	Soluble K2O, Other (15%)	0559	14.58	0.0100	15.07	0.4285	0.1974	42	-1.16	OK	0
050.99	Soluble K2O, Other (15%)	0605	14.67	0.3500	15.07	0.4285	0.1974	42	-0.95	OK	0
050.99	Soluble K2O, Other (15%)	0562	14.68	0.0500	15.07	0.4285	0.1974	42	-0.93	OK	0
050.99	Soluble K2O, Other (15%)	0564	14.69	0.0200	15.07	0.4285	0.1974	42	-0.90	OK	0
050.99	Soluble K2O, Other (15%)	0521	14.74	0.0000	15.07	0.4285	0.1974	42	-0.78	OK	0
050.99	Soluble K2O, Other (15%)	0421	14.75	0.3000	15.07	0.4285	0.1974	42	-0.76	OK	0
050.99	Soluble K2O, Other (15%)	0553	14.80	0.0000	15.07	0.4285	0.1974	42	-0.64	OK	0
050.99	Soluble K2O, Other (15%)	0518	14.82	0.7600	15.07	0.4285	0.1974	42	-0.59	OK	0
050.99	Soluble K2O, Other (15%)	0600	14.83	0.1500	15.07	0.4285	0.1974	42	-0.58	OK	0
050.99	Soluble K2O, Other (15%)	0451	14.83	0.1600	15.07	0.4285	0.1974	42	-0.57	OK	0
050.99	Soluble K2O, Other (15%)	0602	14.90	0.2000	15.07	0.4285	0.1974	42	-0.41	OK	0
050.99	Soluble K2O, Other (15%)	0177	14.95	0.0824	15.07	0.4285	0.1974	42	-0.29	OK	0
050.99	Soluble K2O, Other (15%)	0545	14.98	0.0400	15.07	0.4285	0.1974	42	-0.22	OK	0
050.99	Soluble K2O, Other (15%)	0538	15.00	0.0300	15.07	0.4285	0.1974	42	-0.18	OK	0
050.99	Soluble K2O, Other (15%)	0540	15.01	0.1700	15.07	0.4285	0.1974	42	-0.16	OK	0

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			Value	Range	Rob Mean	Rob SD	Range				
050.99	Soluble K2O, Other (15%)	0531	15.04	0.1200	15.07	0.4285	0.1974	42	-0.08	OK	0
050.99	Soluble K2O, Other (15%)	0556	15.05	0.0200	15.07	0.4285	0.1974	42	-0.06	OK	0
050.99	Soluble K2O, Other (15%)	0532	15.07	0.1300	15.07	0.4285	0.1974	42	-0.02	OK	0
050.99	Soluble K2O, Other (15%)	0549	15.08	0.0200	15.07	0.4285	0.1974	42	0.01	OK	0
050.99	Soluble K2O, Other (15%)	0569	15.09	0.0100	15.07	0.4285	0.1974	42	0.03	OK	0
050.99	Soluble K2O, Other (15%)	0560	15.12	0.0500	15.07	0.4285	0.1974	42	0.10	OK	0
050.99	Soluble K2O, Other (15%)	0587	15.12	0.0900	15.07	0.4285	0.1974	42	0.10	OK	0
050.99	Soluble K2O, Other (15%)	0563	15.14	0.4900	15.07	0.4285	0.1974	42	0.14	OK	0
050.99	Soluble K2O, Other (15%)	0537	15.16	0.0700	15.07	0.4285	0.1974	42	0.19	OK	0
050.99	Soluble K2O, Other (15%)	0533	15.30	0.0800	15.07	0.4285	0.1974	42	0.53	OK	0
050.99	Soluble K2O, Other (15%)	0508	15.31	0.1100	15.07	0.4285	0.1974	42	0.54	OK	0
050.99	Soluble K2O, Other (15%)	0394	15.31	0.1890	15.07	0.4285	0.1974	42	0.55	OK	0
050.99	Soluble K2O, Other (15%)	0260	15.38	0.1350	15.07	0.4285	0.1974	42	0.72	OK	0
050.99	Soluble K2O, Other (15%)	0481	15.39	0.3300	15.07	0.4285	0.1974	42	0.73	OK	0
050.99	Soluble K2O, Other (15%)	0389	15.40	0.1300	15.07	0.4285	0.1974	42	0.75	OK	0
050.99	Soluble K2O, Other (15%)	0234	15.48	0.7500	15.07	0.4285	0.1974	42	0.94	OK	0
050.99	Soluble K2O, Other (15%)	0527	15.59	0.0697	15.07	0.4285	0.1974	42	1.20	OK	0
050.99	Soluble K2O, Other (15%)	0572	15.60	0.5584	15.07	0.4285	0.1974	42	1.23	OK	0
050.99	Soluble K2O, Other (15%)	0498	15.65	0.3000	15.07	0.4285	0.1974	42	1.34	OK	0
050.99	Soluble K2O, Other (15%)	0524	15.67	0.4869	15.07	0.4285	0.1974	42	1.39	OK	0
050.99	Soluble K2O, Other (15%)	0548	16.25	0.1000	15.07	0.4285	0.1974	42	2.74	High	0
050.99	Soluble K2O, Other (15%)	0027	16.28	0.1600	15.07	0.4285	0.1974	42	2.81	High	0
050.99	Soluble K2O, Other (15%)	0542	17.25	0.0160	15.07	0.4285	0.1974	42	5.08	High	0
050.99	Soluble K2O, Other (15%)	0255	16.83	1.686	15.07	0.4285	0.1974	42	4.10	High	1
060.00	Water (Free), Vacuum Oven (%)	0513	0.7750	0.0100				1			0
060.99	Water (Free), Other (%)	0510	1.329	0.0079				1			0
101.00	Acid Soluble Ca, AA, inorganic 965.09 (%)	0553	3.670	0.0600				1			0
101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	0568	3.700	0.0000	4.175	0.8691	0.0380	5	-0.55		0
101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	0354	3.775	0.0300	4.175	0.8691	0.0380	5	-0.46		0
101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	0444	3.785	0.0300	4.175	0.8691	0.0380	5	-0.45		0
101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	0035	3.890	0.0400	4.175	0.8691	0.0380	5	-0.33		0
101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	0231	5.725	0.0900	4.175	0.8691	0.0380	5	1.78		0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0494	3.765	0.1124	4.065	0.5201	0.0400	5	-0.58		0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0472	3.775	0.0100	4.065	0.5201	0.0400	5	-0.56		0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0609	3.835	0.0100	4.065	0.5201	0.0400	5	-0.44		0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0542	3.967	0.0410	4.065	0.5201	0.0400	5	-0.19		0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0527	4.984	0.0268	4.065	0.5201	0.0400	5	1.77		0
101.99	Acid Soluble Ca, Other (%)	0389	3.635	0.0100				2			0
101.99	Acid Soluble Ca, Other (%)	0572	5.315	0.0500				2			0
121.00	Acid Soluble Mg, AA, inorganic 965.09 (%)	0553	0.2730	0.0020				1			0
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	0568	0.2630	0.0000	0.2815	0.0156	0.0060	4	-1.19		0
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	0354	0.2750	0.0100	0.2815	0.0156	0.0060	4	-0.42		0
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	0231	0.2900	0.0000	0.2815	0.0156	0.0060	4	0.55		0

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121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	0035	0.2980	0.0140	0.2815	0.0156	0.0060	4	1.06		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0472	0.2200	0.0000	0.2774	0.0324	0.0060	5	-1.77		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0494	0.2882	0.0184	0.2774	0.0324	0.0060	5	0.33		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0609	0.2900	0.0020	0.2774	0.0324	0.0060	5	0.39		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0542	0.2900	0.0048	0.2774	0.0324	0.0060	5	0.39		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0527	0.2990	0.0049	0.2774	0.0324	0.0060	5	0.66		0
121.99	Acid Soluble Mg, Other (%)	0524	0.2355	0.0215	0.2522	0.0169	0.0110	4	-0.99		0
121.99	Acid Soluble Mg, Other (%)	0572	0.2466	0.0055	0.2522	0.0169	0.0110	4	-0.33		0
121.99	Acid Soluble Mg, Other (%)	0515	0.2511	0.0138	0.2522	0.0169	0.0110	4	-0.06		0
121.99	Acid Soluble Mg, Other (%)	0389	0.2755	0.0030	0.2522	0.0169	0.0110	4	1.38		0
131.99	Water Soluble Mg, Other (%)	0572	0.0684	0.0062				1			0
143.00	Elemental S, Gravimetric Sulfur - carbon disulfide soluble sulfu	0405	0.1200	0.0000				1			0
143.99	Elemental S, Other (%)	0389	4.450	0.1000	5.564	0.7236	0.0959	5	-1.54		0
143.99	Elemental S, Other (%)	0255	5.282	0.1130	5.564	0.7236	0.0959	5	-0.39		0
143.99	Elemental S, Other (%)	0368	5.858	0.1465	5.564	0.7236	0.0959	5	0.41		0
143.99	Elemental S, Other (%)	0291	5.915	0.0100	5.564	0.7236	0.0959	5	0.49		0
143.99	Elemental S, Other (%)	0325	6.315	0.1100	5.564	0.7236	0.0959	5	1.04		0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0564	5.185	0.0100	5.568	0.3131	0.0600	8	-1.12	NA	0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0565	5.190	0.0200	5.568	0.3131	0.0600	8	-1.10	NA	0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0405	5.435	0.0100	5.568	0.3131	0.0600	8	-0.39	NA	0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0106	5.640	0.0600	5.568	0.3131	0.0600	8	0.21	NA	0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0532	5.655	0.1300	5.568	0.3131	0.0600	8	0.26	NA	0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0027	5.725	0.0900	5.568	0.3131	0.0600	8	0.46	NA	0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0561	5.745	0.0100	5.568	0.3131	0.0600	8	0.52	NA	0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0537	5.965	0.1500	5.568	0.3131	0.0600	8	1.16	NA	0
145.99	Sulfate S, HCl soluble, Other (%)	0540	4.995	0.0700	5.193	0.2864	0.0650	4	-0.69		0
145.99	Sulfate S, HCl soluble, Other (%)	0444	5.040	0.1200	5.193	0.2864	0.0650	4	-0.53		0
145.99	Sulfate S, HCl soluble, Other (%)	0559	5.120	0.0200	5.193	0.2864	0.0650	4	-0.25		0
145.99	Sulfate S, HCl soluble, Other (%)	0553	5.615	0.0500	5.193	0.2864	0.0650	4	1.48		0
146.00	Total S in Liquid, Gravimetric - sulfate, sulfite, thiosulfate, a...	0580	5.795	0.0900				1			0
148.00	Total S, Combustion (5%)	0609	5.250	0.1000	5.474	0.1988	0.2152	9	-1.04	OK	0
148.00	Total S, Combustion (5%)	0073	5.295	0.3300	5.474	0.1988	0.2152	9	-0.83	OK	0
148.00	Total S, Combustion (5%)	0136	5.320	0.2400	5.474	0.1988	0.2152	9	-0.71	OK	0
148.00	Total S, Combustion (5%)	0157	5.345	0.0700	5.474	0.1988	0.2152	9	-0.60	OK	0
148.00	Total S, Combustion (5%)	0049	5.495	0.4300	5.474	0.1988	0.2152	9	0.10	OK	0
148.00	Total S, Combustion (5%)	0131	5.539	0.0090	5.474	0.1988	0.2152	9	0.30	OK	0
148.00	Total S, Combustion (5%)	0029	5.658	0.1380	5.474	0.1988	0.2152	9	0.86	OK	0
148.00	Total S, Combustion (5%)	0114	5.680	0.3200	5.474	0.1988	0.2152	9	0.96	OK	0
148.00	Total S, Combustion (5%)	0451	5.680	0.3000	5.474	0.1988	0.2152	9	0.96	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0538	4.985	0.0100	5.554	0.3359	0.0822	11	-1.59	Low	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0565	5.195	0.0300	5.554	0.3359	0.0822	11	-1.00	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0564	5.200	0.0000	5.554	0.3359	0.0822	11	-0.99	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0095	5.475	0.0900	5.554	0.3359	0.0822	11	-0.22	OK	0

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			Value	Range	Rob Mean	Rob SD	Range				
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0230	5.650	0.3000	5.554	0.3359	0.0822	11	0.27	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0476	5.654	0.0837	5.554	0.3359	0.0822	11	0.28	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0534	5.665	0.0300	5.554	0.3359	0.0822	11	0.31	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0513	5.710	0.0200	5.554	0.3359	0.0822	11	0.43	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0485	5.715	0.1500	5.554	0.3359	0.0822	11	0.45	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0055	5.725	0.0900	5.554	0.3359	0.0822	11	0.48	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0324	6.250	0.1000	5.554	0.3359	0.0822	11	1.94	High	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0568	3.350	0.0000	5.400	0.2635	0.0833	15	-7.78	Low	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0260	4.939	0.2420	5.400	0.2635	0.0833	15	-1.75	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0177	5.211	0.0257	5.400	0.2635	0.0833	15	-0.72	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0444	5.235	0.0500	5.400	0.2635	0.0833	15	-0.63	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0542	5.318	0.0120	5.400	0.2635	0.0833	15	-0.31	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0421	5.325	0.0500	5.400	0.2635	0.0833	15	-0.28	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0472	5.380	0.0000	5.400	0.2635	0.0833	15	-0.08	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0043	5.425	0.0900	5.400	0.2635	0.0833	15	0.10	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0040	5.450	0.1000	5.400	0.2635	0.0833	15	0.19	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0494	5.455	0.1700	5.400	0.2635	0.0833	15	0.21	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0521	5.490	0.0000	5.400	0.2635	0.0833	15	0.34	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0292	5.505	0.0700	5.400	0.2635	0.0833	15	0.40	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0394	5.604	0.0900	5.400	0.2635	0.0833	15	0.77	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0527	5.863	0.1304	5.400	0.2635	0.0833	15	1.76	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0563	5.880	0.2200	5.400	0.2635	0.0833	15	1.82	High	0
148.99	Total S, Other (5%)	0560	5.020	0.0800	5.376	0.2814	0.0974	13	-1.27	OK	0
148.99	Total S, Other (5%)	0558	5.040	0.0109	5.376	0.2814	0.0974	13	-1.20	OK	0
148.99	Total S, Other (5%)	0531	5.060	0.0800	5.376	0.2814	0.0974	13	-1.12	OK	0
148.99	Total S, Other (5%)	0562	5.165	0.0300	5.376	0.2814	0.0974	13	-0.75	OK	0
148.99	Total S, Other (5%)	0600	5.200	0.1000	5.376	0.2814	0.0974	13	-0.63	OK	0
148.99	Total S, Other (5%)	0572	5.375	0.3456	5.376	0.2814	0.0974	13	0.00	OK	0
148.99	Total S, Other (5%)	0023	5.455	0.0300	5.376	0.2814	0.0974	13	0.28	OK	0
148.99	Total S, Other (5%)	0354	5.535	0.1300	5.376	0.2814	0.0974	13	0.56	OK	0
148.99	Total S, Other (5%)	0377	5.550	0.1000	5.376	0.2814	0.0974	13	0.62	OK	0
148.99	Total S, Other (5%)	0405	5.555	0.0100	5.376	0.2814	0.0974	13	0.64	OK	0
148.99	Total S, Other (5%)	0481	5.560	0.1600	5.376	0.2814	0.0974	13	0.65	OK	0
148.99	Total S, Other (5%)	0452	5.655	0.0900	5.376	0.2814	0.0974	13	0.99	OK	0
148.99	Total S, Other (5%)	0605	5.720	0.1000	5.376	0.2814	0.0974	13	1.22	OK	0
148.99	Total S, Other (5%)	0422	9.303	1.257	5.376	0.2814	0.0974	13	13.95	High	1
149.04	S - HNO3 soluble, ICP (%)	0508	5.385	0.0100	5.658	0.2468	0.1142	3	-1.11		0
149.04	S - HNO3 soluble, ICP (%)	0231	5.725	0.0900	5.658	0.2468	0.1142	3	0.27		0
149.04	S - HNO3 soluble, ICP (%)	0524	5.865	0.2427	5.658	0.2468	0.1142	3	0.84		0
151.00	Acid Soluble As, AA, test portion 2006.03 modified w/dual acid	0498	2.000	0.2000				1			0
151.30	Acid Soluble As, ICP (ppm)	0524	8.283	0.1772	18.40	8.257	1.244	4	-1.22		0
151.30	Acid Soluble As, ICP (ppm)	0605	18.10	3.800	18.40	8.257	1.244	4	-0.04		0
151.30	Acid Soluble As, ICP (ppm)	0568	18.70	0.0000	18.40	8.257	1.244	4	0.04		0

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			Value	Range	Rob Mean	Rob SD	Range				
151.30	Acid Soluble As, ICP (ppm)	0027	28.50	1.000	18.40	8.257	1.244	4	1.22		0
151.30	Acid Soluble As, ICP (ppm)	0255	0.0000	0.0000	18.40	8.257	1.244	4			4
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	0405	29.50	1.000				1			0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0527	5.249	0.3405				2			0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0563	21.92	0.2300				2			0
151.34	Acid Soluble As, ICP, EPA 3050B/6010C (ppm)	0515	22.70	0.1490				2			0
151.34	Acid Soluble As, ICP, EPA 3050B/6010C (ppm)	0368	28.50	2.400				2			0
151.99	Acid Soluble As, Other (ppm)	0481	1.715	0.1100				2			0
151.99	Acid Soluble As, Other (ppm)	0572	10.41	0.4410				2			0
165.00	Acid Soluble B, Spectrophotometric (%)	0553	0.0080	0.0000				1			0
165.30	Acid Soluble B, ICP, test portion in 982.01 (%)	0389	0.0075	0.0010				2			0
165.30	Acid Soluble B, ICP, test portion in 982.01 (%)	0354	0.0100	0.0000				2			0
165.99	Acid Soluble B, Other (%)	0524	0.0035	0.0000	0.0056	0.0030	0.0001	4	-0.70		0
165.99	Acid Soluble B, Other (%)	0542	0.0038	0.0001	0.0056	0.0030	0.0001	4	-0.62		0
165.99	Acid Soluble B, Other (%)	0527	0.0052	0.0002	0.0056	0.0030	0.0001	4	-0.14		0
165.99	Acid Soluble B, Other (%)	0472	0.0100	0.0000	0.0056	0.0030	0.0001	4	1.45		0
165.99	Acid Soluble B, Other (%)	0572	< 0.0134		0.0056	0.0030	0.0001	4			5
171.99	Water Soluble B, Other (%)	0572	< 0.0106					0			5
181.00	Acid Soluble Cd, AA, test portion 2006.03 modified w/dual acid	0498	1.255	0.0500				1			0
181.30	Acid Soluble Cd, ICP (ppm)	0444	0.7100	0.0600	0.9592	0.2095	0.0952	7	-1.08	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0485	0.8530	0.1060	0.9592	0.2095	0.0952	7	-0.46	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0035	0.8700	0.1320	0.9592	0.2095	0.0952	7	-0.38	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0524	0.8927	0.0181	0.9592	0.2095	0.0952	7	-0.29	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0394	1.035	0.0100	0.9592	0.2095	0.0952	7	0.33	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0389	1.080	0.0000	0.9592	0.2095	0.0952	7	0.52	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0255	1.541	0.3400	0.9592	0.2095	0.0952	7	2.51	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0605	< 1.85		0.9592	0.2095	0.0952	7			5
181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	0405	1.000	0.0000				1			0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0494	1.115	0.0700	1.214	0.0937	0.0441	4	-1.06		0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0136	1.195	0.0700	1.214	0.0937	0.0441	4	-0.20		0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0563	1.205	0.0100	1.214	0.0937	0.0441	4	-0.10		0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0527	1.341	0.0265	1.214	0.0937	0.0441	4	1.35		0
181.34	Acid Soluble Cd, ICP, EPA 3050B/6010C (ppm)	0368	1.200	0.2000				1			0
181.34	Acid Soluble Cd, ICP, EPA 3050B/6010C (ppm)	0515	< 0.101					1			5
181.99	Acid Soluble Cd, Other (ppm)	0481	1.120	0.0600				2			0
181.99	Acid Soluble Cd, Other (ppm)	0572	1.182	0.1470				2			0
190.00	Water Soluble Cl, Titrimetric (%)	0553	0.3600	0.0200				2			0
190.00	Water Soluble Cl, Titrimetric (%)	0609	0.3805	0.0010				2			0
191.30	Acid Soluble Cr, ICP (ppm)	0524	26.21	0.6308	29.87	3.436	0.6101	7	-0.96	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0568	26.40	0.0000	29.87	3.436	0.6101	7	-0.91	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0389	29.62	0.0400	29.87	3.436	0.6101	7	-0.07	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0394	29.90	0.6000	29.87	3.436	0.6101	7	0.01	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0035	30.45	0.1000	29.87	3.436	0.6101	7	0.15	NA	0

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191.30	Acid Soluble Cr, ICP (ppm)	0027	31.50	1.000	29.87	3.436	0.6101	7	0.43	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0605	39.65	1.900	29.87	3.436	0.6101	7	2.57	NA	0
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	0405	37.00	2.000				1			0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0563	28.83	0.1300	32.68	3.393	0.4734	4	-1.14		0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0136	31.10	0.0000	32.68	3.393	0.4734	4	-0.47		0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0494	34.30	1.000	32.68	3.393	0.4734	4	0.48		0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0527	36.49	0.7635	32.68	3.393	0.4734	4	1.12		0
191.34	Acid Soluble Cr, ICP, EPA 3050B/6010C (ppm)	0368	31.65	0.5000				2			0
191.34	Acid Soluble Cr, ICP, EPA 3050B/6010C (ppm)	0515	39.22	1.979				2			0
191.99	Acid Soluble Cr, Other (ppm)	0572	32.00	2.733				2			0
191.99	Acid Soluble Cr, Other (ppm)	0481	34.85	5.500				2			0
202.30	Acid Soluble Co, ICP (ppm)	0389	1.585	0.0100	2.133	0.4550	0.3189	6	-1.07	OK	0
202.30	Acid Soluble Co, ICP (ppm)	0035	1.805	1.090	2.133	0.4550	0.3189	6	-0.64	OK	0
202.30	Acid Soluble Co, ICP (ppm)	0568	2.000	0.0000	2.133	0.4550	0.3189	6	-0.26	OK	0
202.30	Acid Soluble Co, ICP (ppm)	0485	2.380	0.3000	2.133	0.4550	0.3189	6	0.48	OK	0
202.30	Acid Soluble Co, ICP (ppm)	0605	2.400	0.4000	2.133	0.4550	0.3189	6	0.52	OK	0
202.30	Acid Soluble Co, ICP (ppm)	0524	2.630	0.1134	2.133	0.4550	0.3189	6	0.97	OK	0
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	0405	3.000	0.0000				1			0
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0527	2.011	0.0251	2.411	0.5518	0.1913	4	-0.72		0
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0563	2.055	0.0700	2.411	0.5518	0.1913	4	-0.64		0
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0494	2.375	0.3300	2.411	0.5518	0.1913	4	-0.06		0
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0542	3.202	0.3400	2.411	0.5518	0.1913	4	1.43		0
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0136	< 2.5		2.411	0.5518	0.1913	4			5
202.34	Acid Soluble Co, ICP, EPA 3050B/6010C (ppm)	0368	2.450	0.1000				1			0
202.99	Acid Soluble Co, Other (ppm)	0572	1.437	0.1960				2			0
202.99	Acid Soluble Co, Other (ppm)	0255	27.69	7.890				2			0
221.00	Acid Soluble Cu, AA, inorganic 965.09 (%)	0553	< 0.005					0			5
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0255	0.0010	0.0000	0.0016	0.0007	0.0002	4	-0.95		0
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0234	0.0012	0.0001	0.0016	0.0007	0.0002	4	-0.72		0
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0049	0.0020	0.0000	0.0016	0.0007	0.0002	4	0.54		0
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0035	0.0024	0.0006	0.0016	0.0007	0.0002	4	1.13		0
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0354	< 0.01		0.0016	0.0007	0.0002	4			5
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	0405	0.0022	0.0001				2			0
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	0394	0.0030	0.0001				2			0
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	0095	0.0000	0.0000				2			4
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0542	0.0016	0.0000	0.0018	0.0003	0.0000	6	-0.70	OK	0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0563	0.0016	0.0000	0.0018	0.0003	0.0000	6	-0.70	OK	0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0136	0.0017	0.0000	0.0018	0.0003	0.0000	6	-0.35	OK	0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0609	0.0018	0.0001	0.0018	0.0003	0.0000	6	-0.17	OK	0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0043	0.0020	0.0000	0.0018	0.0003	0.0000	6	0.70	OK	0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0527	0.0022	0.0001	0.0018	0.0003	0.0000	6	1.22	OK	0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0106	0.0015	0.0006	0.0018	0.0003	0.0000	6	-1.04	OK	1
221.99	Acid Soluble Cu, Other (%)	0524	0.0016	0.0000	0.0020	0.0000	0.0002	7	0.00	OK	0

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			Value	Range	Rob Mean	Rob SD	Range				
221.99	Acid Soluble Cu, Other (%)	0572	0.0017	0.0002	0.0020	0.0000	0.0002	7	0.00	OK	0
221.99	Acid Soluble Cu, Other (%)	0027	0.0020	0.0000	0.0020	0.0000	0.0002	7	0.00	OK	0
221.99	Acid Soluble Cu, Other (%)	0368	0.0020	0.0006	0.0020	0.0000	0.0002	7	0.00	OK	0
221.99	Acid Soluble Cu, Other (%)	0389	0.0020	0.0000	0.0020	0.0000	0.0002	7	0.00	OK	0
221.99	Acid Soluble Cu, Other (%)	0481	0.0020	0.0000	0.0020	0.0000	0.0002	7	0.00	OK	0
221.99	Acid Soluble Cu, Other (%)	0515	0.0027	0.0003	0.0020	0.0000	0.0002	7	0.00	OK	0
241.00	Acid Soluble Fe, AA, inorganic 965.09 (%)	0553	0.1180	0.0000				1			0
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	0035	0.1055	0.0050				2			0
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	0354	0.1150	0.0100				2			0
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	0472	0.1100	0.0000	0.1196	0.0086	0.0070	5	-1.11		0
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	0563	0.1120	0.0200	0.1196	0.0086	0.0070	5	-0.88		0
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	0527	0.1220	0.0030	0.1196	0.0086	0.0070	5	0.28		0
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	0542	0.1231	0.0041	0.1196	0.0086	0.0070	5	0.40		0
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	0609	0.1310	0.0080	0.1196	0.0086	0.0070	5	1.32		0
241.99	Acid Soluble Fe, Other (%)	0572	0.1025	0.0002	0.1079	0.0052	0.0013	4	-1.03		0
241.99	Acid Soluble Fe, Other (%)	0524	0.1054	0.0024	0.1079	0.0052	0.0013	4	-0.47		0
241.99	Acid Soluble Fe, Other (%)	0389	0.1090	0.0020	0.1079	0.0052	0.0013	4	0.22		0
241.99	Acid Soluble Fe, Other (%)	0515	0.1146	0.0007	0.1079	0.0052	0.0013	4	1.29		0
251.00	Acid Soluble Pb, AA, test portion 2006.03 modified w/dual acid	0498	0.5500	0.1000				1			0
251.30	Acid Soluble Pb, ICP (ppm)	0389	4.905	0.1700	6.150	1.133	0.3773	6	-0.98	NA	0
251.30	Acid Soluble Pb, ICP (ppm)	0394	5.395	0.0300	6.150	1.133	0.3773	6	-0.59	NA	0
251.30	Acid Soluble Pb, ICP (ppm)	0524	5.929	0.0037	6.150	1.133	0.3773	6	-0.17	NA	0
251.30	Acid Soluble Pb, ICP (ppm)	0035	6.170	0.8600	6.150	1.133	0.3773	6	0.02	NA	0
251.30	Acid Soluble Pb, ICP (ppm)	0605	6.800	1.200	6.150	1.133	0.3773	6	0.51	NA	0
251.30	Acid Soluble Pb, ICP (ppm)	0568	7.700	0.0000	6.150	1.133	0.3773	6	1.22	NA	0
251.30	Acid Soluble Pb, ICP (ppm)	0255	12.50	3.920	6.150	1.133	0.3773	6	4.99	NA	1
251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	0405	9.000	2.000				1			0
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0563	3.380	0.0400	4.335	0.8336	0.0257	3	-1.15		0
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0136	4.710	0.0000	4.335	0.8336	0.0257	3	0.45		0
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0527	4.916	0.0372	4.335	0.8336	0.0257	3	0.70		0
251.34	Acid Soluble Pb, ICP, EPA 3050B/6010C (ppm)	0515	4.180	1.298				1			0
251.34	Acid Soluble Pb, ICP, EPA 3050B/6010C (ppm)	0368	< 0.6					1			5
251.99	Acid Soluble Pb, Other (ppm)	0481	3.180	0.0200				2			0
251.99	Acid Soluble Pb, Other (ppm)	0572	4.933	0.1310				2			0
261.00	Acid Soluble Mn, AA, Mn2+ only (%)	0553	0.0080	0.0000				1			0
261.30	Acid Soluble Mn, ICP, test portion 972.02a (%)	0035	0.0079	0.0005				1			0
261.30	Acid Soluble Mn, ICP, test portion 972.02a (%)	0354	< 0.01					1			5
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	0563	0.0070	0.0000	0.0079	0.0008	0.0002	4	-1.19		0
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	0542	0.0077	0.0000	0.0079	0.0008	0.0002	4	-0.29		0
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	0527	0.0082	0.0001	0.0079	0.0008	0.0002	4	0.29		0
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	0609	0.0089	0.0005	0.0079	0.0008	0.0002	4	1.19		0
261.99	Acid Soluble Mn, Other (%)	0389	0.0070	0.0000	0.0071	0.0002	0.0001	3	-0.87		0
261.99	Acid Soluble Mn, Other (%)	0524	0.0071	0.0000	0.0071	0.0002	0.0001	3	-0.22		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Range				
261.99	Acid Soluble Mn, Other (%)	0572	0.0073	0.0002	0.0071	0.0002	0.0001	3	1.09		0
281.00	Acid Soluble Hg, AA (ppm)	0117	< 0.2					0			5
281.00	Acid Soluble Hg, AA (ppm)	0481	< 0.5					0			5
281.30	Acid Soluble Hg, ICP (ppm)	0527	< 0.001					0			5
281.30	Acid Soluble Hg, ICP (ppm)	0515	< 0.017					0			5
281.30	Acid Soluble Hg, ICP (ppm)	0568	< 0.15					0			5
281.30	Acid Soluble Hg, ICP (ppm)	0605	< 1.25					0			5
281.30	Acid Soluble Hg, ICP (ppm)	0405	< 2					0			5
281.99	Acid Soluble Hg, Other (ppm)	0524	0.0013	0.0001	0.0042	0.0031	0.0014	3	-0.93		0
281.99	Acid Soluble Hg, Other (ppm)	0368	0.0038	0.0032	0.0042	0.0031	0.0014	3	-0.12		0
281.99	Acid Soluble Hg, Other (ppm)	0035	0.0075	0.0010	0.0042	0.0031	0.0014	3	1.06		0
281.99	Acid Soluble Hg, Other (ppm)	0572	< 0.011		0.0042	0.0031	0.0014	3			5
289.30	Acid Soluble Mo, ICP (ppm)	0234	1.000	0.0000	1.829	0.9755	0.0617	5	-0.85		0
289.30	Acid Soluble Mo, ICP (ppm)	0485	1.140	0.2600	1.829	0.9755	0.0617	5	-0.71		0
289.30	Acid Soluble Mo, ICP (ppm)	0524	1.662	0.0185	1.829	0.9755	0.0617	5	-0.17		0
289.30	Acid Soluble Mo, ICP (ppm)	0568	1.900	0.0000	1.829	0.9755	0.0617	5	0.07		0
289.30	Acid Soluble Mo, ICP (ppm)	0255	3.445	0.0300	1.829	0.9755	0.0617	5	1.66		0
289.32	Acid Soluble Mo, ICP, 2006.03 (ppm)	0405	2.000	0.0000				1			0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0527	1.701	0.0263	2.162	0.6248	0.0639	5	-0.64		0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0494	1.855	0.0700	2.162	0.6248	0.0639	5	-0.43		0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0563	1.995	0.0900	2.162	0.6248	0.0639	5	-0.23		0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0106	2.000	0.0000	2.162	0.6248	0.0639	5	-0.23		0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0542	3.258	0.1330	2.162	0.6248	0.0639	5	1.53		0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0136	< 2.5		2.162	0.6248	0.0639	5			5
289.34	Acid Soluble Mo, ICP, EPA 3050B/6010C (ppm)	0515	2.777	3.424				1			0
289.34	Acid Soluble Mo, ICP, EPA 3050B/6010C (ppm)	0368	< 0.1					1			5
289.99	Acid Soluble Mo, Other (ppm)	0572	< 3.09					0			5
289.99	Acid Soluble Mo, Other (ppm)	0481	< 100					0			5
291.30	Acid Soluble Ni, ICP (ppm)	0568	6.200	0.0000	7.175	1.000	0.3454	6	-0.87	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0035	6.360	0.8000	7.175	1.000	0.3454	6	-0.73	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0524	6.813	0.0324	7.175	1.000	0.3454	6	-0.32	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0485	7.265	0.5700	7.175	1.000	0.3454	6	0.08	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0394	8.165	0.1700	7.175	1.000	0.3454	6	0.88	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0605	8.250	0.5000	7.175	1.000	0.3454	6	0.96	NA	0
291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	0405	9.500	1.000				1			0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0563	6.760	0.0200	8.765	1.620	0.5910	4	-1.24		0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0136	8.440	1.280	8.765	1.620	0.5910	4	-0.20		0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0527	9.211	0.1641	8.765	1.620	0.5910	4	0.27		0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0494	10.65	0.9000	8.765	1.620	0.5910	4	1.16		0
291.34	Acid Soluble Ni, ICP, EPA 3050B/6010C (ppm)	0515	5.988	1.690				2			0
291.34	Acid Soluble Ni, ICP, EPA 3050B/6010C (ppm)	0368	8.300	0.0000				2			0
291.99	Acid Soluble Ni, Other (ppm)	0572	8.424	0.1150				2			0
291.99	Acid Soluble Ni, Other (ppm)	0255	11.84	3.030				2			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Range				
301.30	Acid Soluble Se, ICP (ppm)	0524	10.06	0.0955				1			0
301.30	Acid Soluble Se, ICP (ppm)	0568	< 1					1			5
301.30	Acid Soluble Se, ICP (ppm)	0605	< 1.65					1			5
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	0405	< 10					0			5
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	0527	14.80	0.4165				2			0
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	0563	55.56	1.450				2			0
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	0494	< 1					2			5
301.34	Acid Soluble Se, ICP, EPA 3050B/6010C (ppm)	0515	3.594	0.1020				1			0
301.34	Acid Soluble Se, ICP, EPA 3050B/6010C (ppm)	0368	< 1.4					1			5
301.99	Acid Soluble Se, Other (ppm)	0255	4.670	0.4620				2			0
301.99	Acid Soluble Se, Other (ppm)	0572	43.91	1.852				2			0
301.99	Acid Soluble Se, Other (ppm)	0481	< 0.5					2			5
311.00	Sodium, AA (%)	0553	0.2290	0.0080				1			0
311.33	Sodium, ICP, test portion as in 2017.02 (%)	0035	0.2520	0.0100				2			0
311.33	Sodium, ICP, test portion as in 2017.02 (%)	0527	0.2633	0.0003				2			0
311.99	Sodium, Other (%)	0572	0.2199	0.0041	0.2566	0.0405	0.0083	3	-0.91		0
311.99	Sodium, Other (%)	0542	0.2498	0.0008	0.2566	0.0405	0.0083	3	-0.17		0
311.99	Sodium, Other (%)	0354	0.3000	0.0200	0.2566	0.0405	0.0083	3	1.07		0
321.00	Acid Soluble Zn, AA, inorganic 965.09 (%)	0553	0.0050	0.0000				1			0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0234	0.0010	0.0001	0.0039	0.0015	0.0004	6	-1.79	OK	0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0255	0.0030	0.0000	0.0039	0.0015	0.0004	6	-0.55	OK	0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0485	0.0043	0.0003	0.0039	0.0015	0.0004	6	0.21	OK	0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0568	0.0047	0.0000	0.0039	0.0015	0.0004	6	0.48	OK	0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0035	0.0048	0.0020	0.0039	0.0015	0.0004	6	0.54	OK	0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0049	0.0050	0.0000	0.0039	0.0015	0.0004	6	0.66	OK	0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0072	3.256	0.1230	0.0039	0.0015	0.0004	6	1966.19	High	2
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0354	< 0.01		0.0039	0.0015	0.0004	6			5
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	0405	0.0065	0.0001	0.0079	0.0019	0.0007	3	-0.79		0
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	0394	0.0073	0.0020	0.0079	0.0019	0.0007	3	-0.33		0
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	0095	0.0100	0.0000	0.0079	0.0019	0.0007	3	1.12		0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0527	0.0043	0.0002	0.0055	0.0010	0.0001	6	-1.08	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0542	0.0051	0.0000	0.0055	0.0010	0.0001	6	-0.33	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0609	0.0052	0.0000	0.0055	0.0010	0.0001	6	-0.23	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0136	0.0054	0.0001	0.0055	0.0010	0.0001	6	-0.09	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0043	0.0060	0.0000	0.0055	0.0010	0.0001	6	0.52	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0563	0.0068	0.0001	0.0055	0.0010	0.0001	6	1.22	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0106	0.0047	0.0007	0.0055	0.0010	0.0001	6	-0.75	OK	1
321.99	Acid Soluble Zn, Other (%)	0389	0.0050	0.0000	0.0055	0.0006	0.0001	7	-0.78	OK	0
321.99	Acid Soluble Zn, Other (%)	0481	0.0050	0.0000	0.0055	0.0006	0.0001	7	-0.78	OK	0
321.99	Acid Soluble Zn, Other (%)	0572	0.0053	0.0000	0.0055	0.0006	0.0001	7	-0.30	OK	0
321.99	Acid Soluble Zn, Other (%)	0515	0.0054	0.0000	0.0055	0.0006	0.0001	7	-0.15	OK	0
321.99	Acid Soluble Zn, Other (%)	0524	0.0054	0.0004	0.0055	0.0006	0.0001	7	-0.15	OK	0
321.99	Acid Soluble Zn, Other (%)	0027	0.0060	0.0000	0.0055	0.0006	0.0001	7	0.80	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Range				
321.99	Acid Soluble Zn, Other (%)	0368	0.0090	0.0002	0.0055	0.0006	0.0001	7	5.52	OK	0
325.30	Water Soluble Zn, ICP (%)	0368	0.0090	0.0002				1			0
325.99	Water Soluble Zn, Other (%)	0572	0.0018	0.0014				1			0
431.99	Soluble Si in nonliquids, Other (%)	0572	0.0541	0.0070				1			0

Interpreting Z Scores and Flags:

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

Notes:

Robust statistics not used if < 6 labs used in calculations, in this case Values and Z Scores are grayed out and should be interpreted with extreme caution. IA Status describes where your result is relative to the Assigned Value $\pm$ IA. Red indicates Higher or Lower and Green indicates within the IA range about the Robust mean. 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.