

Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Methods: 130

Sample # 220714

Regular PT Scheme Sample Doubles with P Scheme

Labs Reporting: 93

MAP

Statistical Summary

Issue Date : 08/31/2022

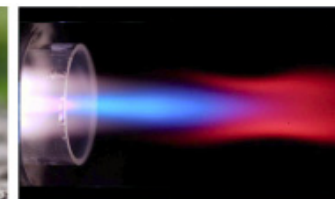
Method Code	Analyte & Method Sample # 220714	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Method Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Method IA Ratio	Average Range (R-bar)	Horwitz %RSD
001.10	Ammoniacal N, Magnesium Oxide Method (%)	9	8	10.29	0.4807	10.36		0.5242	0.2317	5.06%		0.0801	2.81%
001.99	Ammoniacal N, Other (%)	30	29	10.71	0.3787	10.77		0.2386	0.0554	2.22%		0.0755	2.80%
002.99	Nitrate N, Other (%)	1		0.0150									
005.99	Urea N, Other (%)	1		0.1400									
009.10	Ammoniacal Plus Nitrate N, Devarda (%)	1		10.85									
009.99	Ammoniacal Plus Nitrate N, Other (%)	1		10.98									
010.10	Total N, Reduced Iron (%)	1		12.32									
010.11	Total N, Modified Comprehensive (%)	1		10.82									
010.12	Total N, Salicylic (%)	2	2	10.74	0.2719								
010.60	Total N, Combustion (%)	60	58	10.92	1.234	10.77	0.5915	0.2377	0.0390	2.21%	0.94	0.0936	2.80%
010.99	Total N, Other (%)	14	14	10.97	0.2846	10.95	0.5943	0.1853	0.0619	1.69%	0.73	0.0617	2.79%
020.10	Total P2O5, Gravimetric Quinolinium MolybdoP (%)	2	2	52.03	0.3571								
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	18	17	52.54	1.959	52.22		0.5708	0.1731	1.09%		0.1853	1.38%
020.40	Total P2O5, Automated (%)	3	3	52.39	0.2441	52.39		0.2441	0.1761	0.47%		0.1733	1.38%
020.50	Total P2O5, ICP (%)	18	17	51.15	2.437	51.06		2.474	0.7502	4.85%		0.1860	1.40%
020.99	Total P2O5, Other (%)	9	8	53.07	1.686	52.73		1.628	0.7193	3.09%		0.1297	1.38%
030.10	Citrate Insoluble P2O5, Gravimetric Quinolinium MolybdoP (%)	1		48.18									
030.20	Citrate Insoluble P2O5, Spectrophotometric MolybdovanadoP	2	2	0.5725	0.3217								
030.40	Citrate Insoluble P2O5, Automated, test portion 963.03 A-B (%)	2	2	0.7075	0.3571								
030.50	Citrate Insoluble P2O5, ICP, test portion 963.03 A-B (%)	1		0.6200									
030.99	Citrate Insoluble P2O5, Other (%)	1		0.5750									
040.20	Indirect Available P2O5, Spectrophotometric (%)	2	2	51.73	0.2243								
040.40	Indirect Available P2O5, Automated (%)	2	2	51.65	0.6930								
040.99	Indirect Available P2O5, Other (%)	3	3	51.89	0.1125	51.89	1.0983	0.1125	0.0812	0.22%	0.24	0.2933	1.39%
041.10	Direct Available P2O5, Gravimetric Quinolinium (%)	5	5	52.50	1.002	52.50	1.1075	1.002	0.5599	1.91%	2.11	0.5258	1.38%
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	6	6	51.16	0.6543	51.16	1.0875	0.7419	0.3786	1.45%	1.59	0.3800	1.40%
041.20	Direct Available P2O5, Spectrophotometric (%)	3	3	52.62	1.065	52.62	1.1094	1.065	0.7688	2.02%	2.24	0.4000	1.38%
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	7	7	51.38	1.124	51.38	1.0907	1.271	0.6006	2.47%	2.72	0.1455	1.40%
041.40	Direct Available P2O5, Automated, Citrate-EDTA Ext. (%)	3	3	52.17	0.0898	52.17	1.1025	0.0898	0.0648	0.17%	0.19	0.0767	1.38%

Method Code	Analyte & Method Sample # 220714	# 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
041.50	Direct Available P2O5, ICP (%)	4	4	51.40	0.5358	51.40	1.0911	0.5358	0.3349	1.04%	1.14	0.9625	1.39%
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	10	10	51.39	1.258	51.40	1.0910	1.401	0.5537	2.73%	2.99	0.5404	1.39%
041.99	Direct Available P2O5, Other (%)	9	9	52.01	0.3616	51.92	1.0988	0.0923	0.0385	0.18%	0.20	0.1733	1.39%
048.10	Water Soluble P2O5, Gravimetric Quinolinium (%)	2	2	45.76	1.566								
048.20	Water Soluble P2O5, Spectrophotometric (%)	3	3	45.16	1.583	45.16		1.583	1.142	3.51%		0.3667	1.49%
048.40	Water Soluble P2O5, Automated (%)	1		45.85									
048.50	Water Soluble P2O5, ICP (%)	1		47.61									
048.99	Water Soluble P2O5, Other (%)	1		45.78									
050.50	Soluble K2O, ICP (Oxalate) (%)	1		0.2095									
050.52	Soluble K2O, ICP (Citrate-EDTA) (%)	2	2	0.1888	0.0152								
050.99	Soluble K2O, Other (%)	5	4	0.1556	0.0645	0.1695	0.4100	0.0652	0.0408	38.49%	0.37	0.0022	5.22%
060.00	Water (Free), Vacuum Oven (%)	1		0.3950									
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 hours, 5g samp	1		1.625									
060.99	Water (Free), Other (%)	1		1.474									
101.00	Acid Soluble Ca, AA, inorganic 965.09 (%)	1		0.0130									
101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	2	2	0.1530	0.0240								
101.32	Acid Soluble Ca, ICP, test portion 2006.03A-C (%)	1		0.1420									
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	3	3	0.1254	0.0500	0.1254	0.2063	0.0500	0.0361	39.88%	0.56	0.0121	5.47%
101.99	Acid Soluble Ca, Other (%)	2	2	0.1525	0.0530								
121.00	Acid Soluble Mg, AA, inorganic 965.09 (%)	1		0.5110									
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	2	2	0.8438	0.0371								
121.32	Acid Soluble Mg, ICP, test portion 2006.03A-C (%)	1		0.8625									
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	4	4	0.8962	0.0632	0.8962	0.2448	0.0632	0.0395	7.05%	0.60	0.0063	4.07%
121.99	Acid Soluble Mg, Other (%)	4	4	0.8516	0.0539	0.8516	0.2426	0.0539	0.0337	6.33%	0.52	0.0026	4.10%
143.99	Elemental S, Other (%)	1		1.345									
145.99	Sulfate S, HCl soluble, Other (%)	3	3	3.327	1.554	3.327		1.554	1.122	46.72%		0.1533	3.34%
148.00	Total S, Combustion (%)	1		1.380									
148.07	Total S, ICP, test portion as in 2017.02 (%)	5	5	1.180	0.2699	1.180	0.2590	0.2699	0.1509	22.86%	2.43	0.0275	3.90%
148.99	Total S, Other (%)	2	2	1.303	0.1022								
149.04	S - HNO3 soluble, ICP (%)	2	2	1.414	0.0295								
151.30	Acid Soluble As, ICP (ppm)	10	9	13.68	6.517	15.66		4.157	1.732	26.54%		0.6286	10.57%
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	2	2	12.35	5.869								
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	6	5	23.21	11.22	23.59		12.50	6.989	53.00%		0.3954	9.94%
151.34	Acid Soluble As, ICP, EPA 3050B/6010C (ppm)	2	2	16.00	6.219								
151.99	Acid Soluble As, Other (ppm)	1		9.050									
165.00	Acid Soluble B, Spectrophotometric (%)	1		0.0115									
165.30	Acid Soluble B, ICP, test portion in 982.01 (%)	3	3	0.0149	0.0075	0.0149	0.0052	0.0075	0.0054	50.32%	3.34	0.0012	7.53%
165.99	Acid Soluble B, Other (%)	7	5	10.12	26.75	0.0091	0.0044	0.0070	0.0039	77.54%	3.75	0.0013	8.12%
181.00	Acid Soluble Cd, AA, test portion 2006.03 modified w/dual acic	1		3.770									
181.30	Acid Soluble Cd, ICP (ppm)	12	12	9.024	11.64	4.912		1.678	0.6054	34.16%		0.3576	12.59%

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181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	2	2	4.800	0.2828								
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	5	5	4.539	0.3699	4.539		0.3699	0.2068	8.15%		0.0677	12.74%
181.34	Acid Soluble Cd, ICP, EPA 3050B/6010C (ppm)	1		4.900									
181.99	Acid Soluble Cd, Other (ppm)	1		4.650									
191.30	Acid Soluble Cr, ICP (ppm)	11	11	111.3	37.15	103.0		15.56	5.865	15.11%		3.249	7.96%
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	2	2	100.8	1.061								
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	6	6	98.53	9.418	98.53		10.68	5.450	10.84%		4.834	8.02%
191.34	Acid Soluble Cr, ICP, EPA 3050B/6010C (ppm)	2	2	102.4	0.0884								
191.99	Acid Soluble Cr, Other (ppm)	1		105.5									
202.30	Acid Soluble Co, ICP (ppm)	7	7	2.738	1.109	2.738	1.8213	1.258	0.5942	45.94%	1.61	0.2792	13.75%
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	3	3	3.165	0.1522	3.165	1.9495	0.1522	0.1099	4.81%	0.18	0.0033	13.45%
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	5	5	3.069	0.3321	3.069	1.9207	0.3321	0.1856	10.82%	0.40	0.0933	13.51%
202.34	Acid Soluble Co, ICP, EPA 3050B/6010C (ppm)	1		3.500									
202.99	Acid Soluble Co, Other (ppm)	2	2	10.35	9.762								
221.00	Acid Soluble Cu, AA, inorganic 965.09 (%)	1		0.0050									
221.03	Acid Soluble Cu, AA, 965.09, test portion 2006.03A-C w/dual ε	1		2.000									
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	2	0	0.0050	0.0071								
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	2	0	0.0002	0.0000								
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	4	1	0.0005	0.0007	10.35	1.0000	9.762	12.20	94.29%	22.74	0.0001	2.81%
221.99	Acid Soluble Cu, Other (%)	5	5	0.0010	0.0011	0.0010	0.0051	0.0011	0.0006	111.58%	0.50	0.0001	11.35%
241.00	Acid Soluble Fe, AA, inorganic 965.09 (%)	1		1.155									
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	2	2	1.178	0.0106								
241.32	Acid Soluble Fe, ICP, test portion 2006.03A-C (%)	1		1.217									
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	4	4	1.182	0.0312	1.182	0.1232	0.0312	0.0195	2.64%	0.59	0.0144	3.90%
241.99	Acid Soluble Fe, Other (%)	5	5	1.244	0.0974	1.244	0.1294	0.0974	0.0544	7.83%	1.75	0.0391	3.87%
251.00	Acid Soluble Pb, AA, test portion 2006.03 modified w/dual acid	1		2.000									
251.30	Acid Soluble Pb, ICP (ppm)	9	5	1.301	1.588	0.5783		0.3278	0.1832	56.67%		0.0961	17.37%
251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	2	1	5.975	2.793								
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	5	4	3.161	2.951	3.201		3.406	2.129	106.39%		1.442	13.43%
251.34	Acid Soluble Pb, ICP, EPA 3050B/6010C (ppm)	1		0.6000									
251.99	Acid Soluble Pb, Other (ppm)	1		8.150									
261.00	Acid Soluble Mn, AA, Mn2+ only (%)	1		0.0345									
261.30	Acid Soluble Mn, ICP, test portion 972.02a (%)	2	2	0.0328	0.0039								
261.34	Acid Soluble Mn, ICP, test portion 2006.03A-C (%)	1		361.7									
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	3	3	0.0337	0.0033	0.0337	0.0084	0.0033	0.0024	9.69%	0.91	0.0006	6.66%
261.99	Acid Soluble Mn, Other (%)	4	4	0.0278	0.0088	0.0278	0.0078	0.0088	0.0055	31.76%	2.65	0.0006	6.86%
281.30	Acid Soluble Hg, ICP (ppm)	6	1	0.6310	0.8275	0.0278		0.0088	0.0111	31.76%		0.0012	22.00%
281.99	Acid Soluble Hg, Other (ppm)	4	3	0.0040	0.0040	0.0020		0.0005	0.0004	26.71%		0.0006	22.00%
289.30	Acid Soluble Mo, ICP (ppm)	9	9	14.87	4.241	15.03	5.5095	4.445	1.852	29.57%	1.88	0.7831	10.64%
289.32	Acid Soluble Mo, ICP, 2006.03 (ppm)	1		16.50									

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289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	7	6	15.84	1.289	15.42	5.6258	0.7917	0.4040	5.13%	0.33	0.2796	10.60%
289.34	Acid Soluble Mo, ICP, EPA 3050B/6010C (ppm)	2	1	7.543	10.67								
291.30	Acid Soluble Ni, ICP (ppm)	12	12	13.26	5.464	11.40		1.059	0.3821	9.29%		0.6283	11.09%
291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	2	2	12.78	1.025								
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	6	6	10.50	2.978	10.50		3.377	1.723	32.16%		1.091	11.23%
291.34	Acid Soluble Ni, ICP, EPA 3050B/6010C (ppm)	2	2	9.129	5.970								
291.99	Acid Soluble Ni, Other (ppm)	2	2	33.61	29.14								
301.30	Acid Soluble Se, ICP (ppm)	3	2	1.575	0.4565	1.538		0.6391	0.5649	41.55%		0.2410	14.99%
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	1		10.00									
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	4	2	3.198	4.681	5.896		6.011	5.313	101.96%		1.677	12.25%
301.34	Acid Soluble Se, ICP, EPA 3050B/6010C (ppm)	2	1	3.744	3.739								
301.99	Acid Soluble Se, Other (ppm)	2	0	0.1500	0.2121								
311.00	Sodium, AA (%)	1		0.0795									
311.33	Sodium, ICP, test portion as in 2017.02 (%)	4	4	0.1408	0.0102	0.1408	0.0191	0.0102	0.0064	7.27%	1.25	0.0028	5.37%
311.99	Sodium, Other (%)	1		0.1650									
321.00	Acid Soluble Zn, AA, inorganic 965.09 (%)	1		0.0060									
321.03	Acid Soluble Zn, AA, 965.09, test portion 2006.03A-C w/dual a	1		0.0060									
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	7	5	23.29	40.52	13.61	1.0000	30.41	17.00	223.49%	70.85	0.4000	2.70%
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	4	4	35.42	70.82	35.42	1.0000	70.82	44.26	199.96%	165.01	1.126	1.68%
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	8	7	0.0062	0.0028	0.0069	0.0057	0.0012	0.0006	17.36%	0.49	0.0005	8.46%
321.99	Acid Soluble Zn, Other (%)	8	7	0.0158	0.0280	0.0059	0.0056	0.0011	0.0005	19.17%	0.47	0.0003	8.65%

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 # 220714

Regular PT Scheme Sample Doubles with P Scheme

MAP

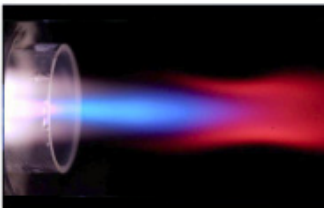
Method Precision Report

Issue Date : 08/31/2022

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 (%)	9	8	10.36	0.4622	0.4593	0.0739	0.4652	4.43%	0.71%	4.49%	6.294
001.99	Ammoniacal N, Other (%)	30	27	10.74	0.3246	0.3217	0.0616	0.3275	3.00%	0.57%	3.05%	5.319
010.60	Total N, Combustion (%)	60	57	10.78	0.2865	0.2804	0.0832	0.2924	2.60%	0.77%	2.71%	3.514
010.99	Total N, Other (%)	14	13	10.91	0.1869	0.1817	0.0620	0.1920	1.66%	0.57%	1.76%	3.097
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	18	16	52.02	0.8834	0.8756	0.1656	0.8911	1.68%	0.32%	1.71%	5.382
020.50	Total P2O5, ICP (%)	18	17	51.03	2.455	2.452	0.1746	2.458	4.81%	0.34%	4.82%	14.08
020.99	Total P2O5, Other (%)	9	8	52.73	1.435	1.433	0.1091	1.437	2.72%	0.21%	2.73%	13.17
041.10	Direct Available P2O5, Gravimetric Quinolinium (%)	5	5	52.50	1.002	0.9393	0.4920	1.060	1.79%	0.94%	2.02%	2.155
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA E	6	6	51.16	0.6543	0.6018	0.3630	0.7028	1.18%	0.71%	1.37%	1.936
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext. ('	7	6	51.56	1.123	1.121	0.0822	1.124	2.17%	0.16%	2.18%	13.68
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	10	10	51.39	1.258	1.204	0.5121	1.309	2.34%	1.00%	2.55%	2.556
041.99	Direct Available P2O5, Other (%)	9	8	51.89	0.0943	0.0608	0.1019	0.1187	0.12%	0.20%	0.23%	1.165
148.07	Total S, ICP, test portion as in 2017.02 (%)	5	5	1.180	0.2699	0.2693	0.0254	0.2705	22.81%	2.15%	22.91%	10.65
151.30	Acid Soluble As, ICP (ppm)	10	9	15.20	4.667	4.650	0.5731	4.685	30.59%	3.77%	30.82%	8.175
165.99	Acid Soluble B, Other (%)	7	5	0.0091	0.0070	0.0069	0.0014	0.0071	76.74%	15.72%	78.33%	4.982
181.30	Acid Soluble Cd, ICP (ppm)	12	11	6.008	5.387	5.383	0.2779	5.391	89.61%	4.63%	89.73%	19.40
191.30	Acid Soluble Cr, ICP (ppm)	11	10	100.7	11.94	11.76	2.980	12.13	11.68%	2.96%	12.05%	4.069
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	6	6	98.53	9.418	8.691	5.134	10.09	8.82%	5.21%	10.24%	1.966
202.30	Acid Soluble Co, ICP (ppm)	7	6	2.944	1.058	1.050	0.1787	1.065	35.67%	6.07%	36.18%	5.961
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	5	5	3.069	0.3321	0.3271	0.0805	0.3369	10.66%	2.62%	10.98%	4.185
221.99	Acid Soluble Cu, Other (%)	5	5	0.0010	0.0011	0.0011	0.0001	0.0011	111.35%	10.20%	111.82%	10.96
241.99	Acid Soluble Fe, Other (%)	5	5	1.244	0.0974	0.0924	0.0436	0.1021	7.43%	3.50%	8.21%	2.344
251.30	Acid Soluble Pb, ICP (ppm)	9	5	0.5783	0.3278	0.3195	0.1035	0.3358	55.24%	17.90%	58.07%	3.244
289.30	Acid Soluble Mo, ICP (ppm)	9	8	14.04	3.674	3.655	0.5298	3.693	26.02%	3.77%	26.29%	6.970
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	7	6	15.42	0.6982	0.6712	0.2718	0.7241	4.35%	1.76%	4.70%	2.665
291.30	Acid Soluble Ni, ICP (ppm)	12	11	11.87	2.680	2.634	0.7043	2.726	22.19%	5.93%	22.97%	3.871

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 %rstd	Reproducibility %RSD	sR/sr
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	6	5	11.42	2.182	2.140	0.5995	2.223	18.74%	5.25%	19.46%	3.708
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	8	7	0.0071	0.0015	0.0014	0.0004	0.0015	20.32%	5.98%	21.18%	3.544
321.99	Acid Soluble Zn, Other (%)	8	6	0.0058	0.0011	0.0011	0.0002	0.0011	18.11%	2.89%	18.33%	6.354

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



Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Methods: 130

Sample # 220714

Regular PT Scheme Sample Doubles with P Scheme

Labs Reporting: 93

MAP

Lab Values

Issue Date : 08/31/2022

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 (%)	0231	9.610	0.0000	10.36	0.5242	0.0801	8	-1.32	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0587	9.990	0.1400	10.36	0.5242	0.0801	8	-0.65	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0452	10.11	0.0500	10.36	0.5242	0.0801	8	-0.45	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0580	10.15	0.1800	10.36	0.5242	0.0801	8	-0.38	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0444	10.65	0.1000	10.36	0.5242	0.0801	8	0.50	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0570	10.74	0.1500	10.36	0.5242	0.0801	8	0.65	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0117	10.81	0.0005	10.36	0.5242	0.0801	8	0.78	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0609	10.87	0.0200	10.36	0.5242	0.0801	8	0.88	NA	0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0451	9.735	0.5300	10.36	0.5242	0.0801	8	-1.10	NA	1
001.99	Ammoniacal N, Other (%)	0394	9.620	0.1180	10.77	0.2386	0.0755	29	-4.80	NA	0
001.99	Ammoniacal N, Other (%)	0513	9.830	0.0200	10.77	0.2386	0.0755	29	-3.92	NA	0
001.99	Ammoniacal N, Other (%)	0029	9.860	0.0600	10.77	0.2386	0.0755	29	-3.80	NA	0
001.99	Ammoniacal N, Other (%)	0423	10.25	0.1000	10.77	0.2386	0.0755	29	-2.16	NA	0
001.99	Ammoniacal N, Other (%)	0220	10.37	0.0600	10.77	0.2386	0.0755	29	-1.66	NA	0
001.99	Ammoniacal N, Other (%)	0510	10.45	0.0098	10.77	0.2386	0.0755	29	-1.30	NA	0
001.99	Ammoniacal N, Other (%)	0563	10.65	0.2000	10.77	0.2386	0.0755	29	-0.48	NA	0
001.99	Ammoniacal N, Other (%)	0524	10.67	0.2700	10.77	0.2386	0.0755	29	-0.42	NA	0
001.99	Ammoniacal N, Other (%)	0581	10.74	0.0000	10.77	0.2386	0.0755	29	-0.11	NA	0
001.99	Ammoniacal N, Other (%)	0586	10.75	0.0300	10.77	0.2386	0.0755	29	-0.09	NA	0
001.99	Ammoniacal N, Other (%)	0582	10.76	0.0300	10.77	0.2386	0.0755	29	-0.04	NA	0
001.99	Ammoniacal N, Other (%)	0027	10.78	0.0100	10.77	0.2386	0.0755	29	0.04	NA	0
001.99	Ammoniacal N, Other (%)	0405	10.78	0.1000	10.77	0.2386	0.0755	29	0.06	NA	0
001.99	Ammoniacal N, Other (%)	0593	10.79	0.0500	10.77	0.2386	0.0755	29	0.08	NA	0
001.99	Ammoniacal N, Other (%)	0605	10.81	0.0290	10.77	0.2386	0.0755	29	0.17	NA	0
001.99	Ammoniacal N, Other (%)	0096	10.83	0.0300	10.77	0.2386	0.0755	29	0.25	NA	0
001.99	Ammoniacal N, Other (%)	0564	10.84	0.0200	10.77	0.2386	0.0755	29	0.31	NA	0
001.99	Ammoniacal N, Other (%)	0565	10.84	0.0200	10.77	0.2386	0.0755	29	0.31	NA	0
001.99	Ammoniacal N, Other (%)	0368	10.87	0.0040	10.77	0.2386	0.0755	29	0.43	NA	0
001.99	Ammoniacal N, Other (%)	0551	10.88	0.0500	10.77	0.2386	0.0755	29	0.46	NA	0
001.99	Ammoniacal N, Other (%)	0567	10.88	0.0500	10.77	0.2386	0.0755	29	0.46	NA	0
001.99	Ammoniacal N, Other (%)	0600	10.90	0.1000	10.77	0.2386	0.0755	29	0.56	NA	0
001.99	Ammoniacal N, Other (%)	0569	10.92	0.1300	10.77	0.2386	0.0755	29	0.63	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 (%)	0553	10.95	0.1000	10.77	0.2386	0.0755	29	0.77	NA	0
001.99	Ammoniacal N, Other (%)	0562	10.95	0.1000	10.77	0.2386	0.0755	29	0.77	NA	0
001.99	Ammoniacal N, Other (%)	0549	10.98	0.1000	10.77	0.2386	0.0755	29	0.90	NA	0
001.99	Ammoniacal N, Other (%)	0538	11.01	0.0400	10.77	0.2386	0.0755	29	1.02	NA	0
001.99	Ammoniacal N, Other (%)	0577	11.06	0.2100	10.77	0.2386	0.0755	29	1.21	NA	0
001.99	Ammoniacal N, Other (%)	0532	11.20	0.1500	10.77	0.2386	0.0755	29	1.80	NA	0
001.99	Ammoniacal N, Other (%)	0255	11.17	0.4400	10.77	0.2386	0.0755	29	1.70	NA	1
002.99	Nitrate N, Other (%)	0553	0.0150	0.0020				1			0
005.99	Urea N, Other (%)	0524	0.1400	0.2400				1			0
009.10	Ammoniacal Plus Nitrate N, Devarda (%)	0444	10.85	0.3000				1			0
009.99	Ammoniacal Plus Nitrate N, Other (%)	0575	10.98	0.0030				1			0
010.10	Total N, Reduced Iron (%)	0518	12.32	0.4900				1			0
010.11	Total N, Modified Comprehensive (%)	0510	10.82	0.0446				1			0
010.12	Total N, Salicylic (%)	0117	10.55	0.5449				2			0
010.12	Total N, Salicylic (%)	0580	10.94	0.2700				2			0
010.60	Total N, Combustion (%)	0422	10.12	0.0000	10.77	0.2377	0.0936	58	-2.72	Low	0
010.60	Total N, Combustion (%)	0023	10.17	0.0290	10.77	0.2377	0.0936	58	-2.53	Low	0
010.60	Total N, Combustion (%)	0086	10.19	0.1800	10.77	0.2377	0.0936	58	-2.43	OK	0
010.60	Total N, Combustion (%)	0494	10.29	0.2600	10.77	0.2377	0.0936	58	-2.01	OK	0
010.60	Total N, Combustion (%)	0102	10.36	0.4900	10.77	0.2377	0.0936	58	-1.73	OK	0
010.60	Total N, Combustion (%)	0534	10.40	0.0000	10.77	0.2377	0.0936	58	-1.54	OK	0
010.60	Total N, Combustion (%)	0472	10.48	0.0100	10.77	0.2377	0.0936	58	-1.23	OK	0
010.60	Total N, Combustion (%)	0485	10.51	0.2400	10.77	0.2377	0.0936	58	-1.08	OK	0
010.60	Total N, Combustion (%)	0501	10.52	0.2900	10.77	0.2377	0.0936	58	-1.06	OK	0
010.60	Total N, Combustion (%)	0360	10.52	0.0400	10.77	0.2377	0.0936	58	-1.04	OK	0
010.60	Total N, Combustion (%)	0423	10.55	0.1900	10.77	0.2377	0.0936	58	-0.93	OK	0
010.60	Total N, Combustion (%)	0587	10.56	0.0700	10.77	0.2377	0.0936	58	-0.89	OK	0
010.60	Total N, Combustion (%)	0073	10.56	0.0400	10.77	0.2377	0.0936	58	-0.87	OK	0
010.60	Total N, Combustion (%)	0035	10.60	0.2000	10.77	0.2377	0.0936	58	-0.70	OK	0
010.60	Total N, Combustion (%)	0390	10.63	0.0070	10.77	0.2377	0.0936	58	-0.57	OK	0
010.60	Total N, Combustion (%)	0307	10.65	0.1000	10.77	0.2377	0.0936	58	-0.49	OK	0
010.60	Total N, Combustion (%)	0292	10.66	0.0000	10.77	0.2377	0.0936	58	-0.45	OK	0
010.60	Total N, Combustion (%)	0451	10.66	0.0600	10.77	0.2377	0.0936	58	-0.45	OK	0
010.60	Total N, Combustion (%)	0389	10.67	0.0500	10.77	0.2377	0.0936	58	-0.43	OK	0
010.60	Total N, Combustion (%)	0231	10.67	0.0000	10.77	0.2377	0.0936	58	-0.41	OK	0
010.60	Total N, Combustion (%)	0255	10.67	0.1260	10.77	0.2377	0.0936	58	-0.39	OK	0
010.60	Total N, Combustion (%)	0136	10.68	0.0100	10.77	0.2377	0.0936	58	-0.39	OK	0
010.60	Total N, Combustion (%)	0029	10.70	0.3000	10.77	0.2377	0.0936	58	-0.28	OK	0
010.60	Total N, Combustion (%)	0325	10.71	0.0900	10.77	0.2377	0.0936	58	-0.26	OK	0
010.60	Total N, Combustion (%)	0356	10.74	0.0500	10.77	0.2377	0.0936	58	-0.13	OK	0
010.60	Total N, Combustion (%)	0034	10.77	0.0100	10.77	0.2377	0.0936	58	-0.01	OK	0
010.60	Total N, Combustion (%)	0055	10.77	0.0400	10.77	0.2377	0.0936	58	0.01	OK	0
010.60	Total N, Combustion (%)	0521	10.77	0.1000	10.77	0.2377	0.0936	58	0.01	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 (%)	0561	10.78	0.0500	10.77	0.2377	0.0936	58	0.03	OK	0
010.60	Total N, Combustion (%)	0593	10.79	0.0300	10.77	0.2377	0.0936	58	0.08	OK	0
010.60	Total N, Combustion (%)	0177	10.79	0.1660	10.77	0.2377	0.0936	58	0.10	OK	0
010.60	Total N, Combustion (%)	0049	10.80	0.0100	10.77	0.2377	0.0936	58	0.12	OK	0
010.60	Total N, Combustion (%)	0157	10.80	0.0000	10.77	0.2377	0.0936	58	0.14	OK	0
010.60	Total N, Combustion (%)	0114	10.81	0.0400	10.77	0.2377	0.0936	58	0.18	OK	0
010.60	Total N, Combustion (%)	0043	10.84	0.0500	10.77	0.2377	0.0936	58	0.29	OK	0
010.60	Total N, Combustion (%)	0234	10.85	0.2000	10.77	0.2377	0.0936	58	0.35	OK	0
010.60	Total N, Combustion (%)	0040	10.85	0.1000	10.77	0.2377	0.0936	58	0.35	OK	0
010.60	Total N, Combustion (%)	0609	10.85	0.1000	10.77	0.2377	0.0936	58	0.35	OK	0
010.60	Total N, Combustion (%)	0095	10.86	0.0300	10.77	0.2377	0.0936	58	0.37	OK	0
010.60	Total N, Combustion (%)	0291	10.88	0.0100	10.77	0.2377	0.0936	58	0.45	OK	0
010.60	Total N, Combustion (%)	0368	10.89	0.1150	10.77	0.2377	0.0936	58	0.50	OK	0
010.60	Total N, Combustion (%)	0007	10.90	0.2000	10.77	0.2377	0.0936	58	0.56	OK	0
010.60	Total N, Combustion (%)	0405	10.91	0.0000	10.77	0.2377	0.0936	58	0.60	OK	0
010.60	Total N, Combustion (%)	0027	10.92	0.0300	10.77	0.2377	0.0936	58	0.62	OK	0
010.60	Total N, Combustion (%)	0450	10.95	0.1000	10.77	0.2377	0.0936	58	0.77	OK	0
010.60	Total N, Combustion (%)	0037	10.96	0.1650	10.77	0.2377	0.0936	58	0.82	OK	0
010.60	Total N, Combustion (%)	0377	10.97	0.0500	10.77	0.2377	0.0936	58	0.83	OK	0
010.60	Total N, Combustion (%)	0220	10.99	0.0100	10.77	0.2377	0.0936	58	0.92	OK	0
010.60	Total N, Combustion (%)	0260	11.00	0.2000	10.77	0.2377	0.0936	58	0.98	OK	0
010.60	Total N, Combustion (%)	0527	11.01	0.1490	10.77	0.2377	0.0936	58	1.04	OK	0
010.60	Total N, Combustion (%)	0042	11.05	0.1000	10.77	0.2377	0.0936	58	1.19	OK	0
010.60	Total N, Combustion (%)	0354	11.05	0.1000	10.77	0.2377	0.0936	58	1.19	OK	0
010.60	Total N, Combustion (%)	0444	11.05	0.1000	10.77	0.2377	0.0936	58	1.19	OK	0
010.60	Total N, Combustion (%)	0421	11.06	0.1100	10.77	0.2377	0.0936	58	1.21	OK	0
010.60	Total N, Combustion (%)	0452	11.08	0.0200	10.77	0.2377	0.0936	58	1.32	OK	0
010.60	Total N, Combustion (%)	0169	11.20	0.0100	10.77	0.2377	0.0936	58	1.80	OK	0
010.60	Total N, Combustion (%)	0025	11.29	0.0600	10.77	0.2377	0.0936	58	2.20	OK	0
010.60	Total N, Combustion (%)	0041	11.91	0.1400	10.77	0.2377	0.0936	58	4.81	High	0
010.60	Total N, Combustion (%)	0324	10.35	0.7000	10.77	0.2377	0.0936	58	-1.75	OK	1
010.60	Total N, Combustion (%)	0018	20.05	0.1000	10.77	0.2377	0.0936	58	39.06	High	2
010.99	Total N, Other (%)	0524	10.46	0.0365	10.95	0.1853	0.0617	14	-2.68	OK	0
010.99	Total N, Other (%)	0563	10.76	0.2000	10.95	0.1853	0.0617	14	-1.04	OK	0
010.99	Total N, Other (%)	0476	10.79	0.1363	10.95	0.1853	0.0617	14	-0.86	OK	0
010.99	Total N, Other (%)	0605	10.81	0.0290	10.95	0.1853	0.0617	14	-0.79	OK	0
010.99	Total N, Other (%)	0560	10.84	0.0600	10.95	0.1853	0.0617	14	-0.61	OK	0
010.99	Total N, Other (%)	0565	10.92	0.0200	10.95	0.1853	0.0617	14	-0.18	OK	0
010.99	Total N, Other (%)	0564	10.93	0.0100	10.95	0.1853	0.0617	14	-0.15	OK	0
010.99	Total N, Other (%)	0575	10.98	0.0030	10.95	0.1853	0.0617	14	0.12	OK	0
010.99	Total N, Other (%)	0600	11.03	0.1500	10.95	0.1853	0.0617	14	0.39	OK	0
010.99	Total N, Other (%)	0558	11.04	0.0869	10.95	0.1853	0.0617	14	0.46	OK	0
010.99	Total N, Other (%)	0576	11.10	0.0000	10.95	0.1853	0.0617	14	0.79	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				
010.99	Total N, Other (%)	0551	11.13	0.0500	10.95	0.1853	0.0617	14	0.93	OK	0
010.99	Total N, Other (%)	0567	11.13	0.0500	10.95	0.1853	0.0617	14	0.93	OK	0
010.99	Total N, Other (%)	0394	11.74	0.0320	10.95	0.1853	0.0617	14	4.25	High	0
020.10	Total P2O5, Gravimetric Quinolinium MolybdoP (%)	0444	51.78	0.5000				2			0
020.10	Total P2O5, Gravimetric Quinolinium MolybdoP (%)	0570	52.29	0.3100				2			0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0510	49.10	0.2319	52.22	0.5708	0.1853	17	-5.46	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0324	51.35	0.7000	52.22	0.5708	0.1853	17	-1.52	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0292	51.42	0.0100	52.22	0.5708	0.1853	17	-1.41	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0027	51.97	0.1200	52.22	0.5708	0.1853	17	-0.44	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0580	52.01	0.0000	52.22	0.5708	0.1853	17	-0.37	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0575	52.01	0.4580	52.22	0.5708	0.1853	17	-0.36	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0581	52.08	0.0000	52.22	0.5708	0.1853	17	-0.24	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0231	52.32	0.0400	52.22	0.5708	0.1853	17	0.18	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0405	52.35	0.1700	52.22	0.5708	0.1853	17	0.22	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0593	52.35	0.2300	52.22	0.5708	0.1853	17	0.22	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0220	52.38	0.0300	52.22	0.5708	0.1853	17	0.27	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0561	52.41	0.1000	52.22	0.5708	0.1853	17	0.33	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0582	52.50	0.1000	52.22	0.5708	0.1853	17	0.49	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0169	52.54	0.0400	52.22	0.5708	0.1853	17	0.56	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0534	52.60	0.0400	52.22	0.5708	0.1853	17	0.67	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0609	53.00	0.0400	52.22	0.5708	0.1853	17	1.37	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0356	53.85	0.8410	52.22	0.5708	0.1853	17	2.86	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0563	59.44	1.430	52.22	0.5708	0.1853	17	12.64	NA	1
020.40	Total P2O5, Automated (%)	0586	52.12	0.0000	52.39	0.2441	0.1733	3	-1.11		0
020.40	Total P2O5, Automated (%)	0035	52.46	0.1500	52.39	0.2441	0.1733	3	0.27		0
020.40	Total P2O5, Automated (%)	0096	52.60	0.3700	52.39	0.2441	0.1733	3	0.84		0
020.50	Total P2O5, ICP (%)	0389	46.19	0.0300	51.06	2.474	0.1860	17	-1.97	NA	0
020.50	Total P2O5, ICP (%)	0307	47.00	0.0000	51.06	2.474	0.1860	17	-1.64	NA	0
020.50	Total P2O5, ICP (%)	0433	48.74	0.4600	51.06	2.474	0.1860	17	-0.94	NA	0
020.50	Total P2O5, ICP (%)	0472	49.04	0.1300	51.06	2.474	0.1860	17	-0.82	NA	0
020.50	Total P2O5, ICP (%)	0255	49.15	0.0230	51.06	2.474	0.1860	17	-0.77	NA	0
020.50	Total P2O5, ICP (%)	0390	49.25	0.3000	51.06	2.474	0.1860	17	-0.73	NA	0
020.50	Total P2O5, ICP (%)	0423	51.10	0.4000	51.06	2.474	0.1860	17	0.02	NA	0
020.50	Total P2O5, ICP (%)	0444	51.71	0.0800	51.06	2.474	0.1860	17	0.26	NA	0
020.50	Total P2O5, ICP (%)	0450	51.75	0.3900	51.06	2.474	0.1860	17	0.28	NA	0
020.50	Total P2O5, ICP (%)	0451	51.76	0.0200	51.06	2.474	0.1860	17	0.28	NA	0
020.50	Total P2O5, ICP (%)	0368	52.24	0.1984	51.06	2.474	0.1860	17	0.47	NA	0
020.50	Total P2O5, ICP (%)	0527	52.37	0.2027	51.06	2.474	0.1860	17	0.53	NA	0
020.50	Total P2O5, ICP (%)	0524	52.47	0.1514	51.06	2.474	0.1860	17	0.57	NA	0
020.50	Total P2O5, ICP (%)	0291	52.51	0.0100	51.06	2.474	0.1860	17	0.58	NA	0
020.50	Total P2O5, ICP (%)	0521	52.80	0.0000	51.06	2.474	0.1860	17	0.70	NA	0
020.50	Total P2O5, ICP (%)	0234	53.68	0.4000	51.06	2.474	0.1860	17	1.06	NA	0
020.50	Total P2O5, ICP (%)	0422	55.68	0.3667	51.06	2.474	0.1860	17	1.87	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				
020.50	Total P2O5, ICP (%)	0260	53.20	2.400	51.06	2.474	0.1860	17	0.86	NA	1
020.99	Total P2O5, Other (%)	0564	51.79	0.0700	52.73	1.628	0.1297	8	-0.53	NA	0
020.99	Total P2O5, Other (%)	0513	51.85	0.0500	52.73	1.628	0.1297	8	-0.50	NA	0
020.99	Total P2O5, Other (%)	0565	51.88	0.0600	52.73	1.628	0.1297	8	-0.48	NA	0
020.99	Total P2O5, Other (%)	0560	51.89	0.0500	52.73	1.628	0.1297	8	-0.48	NA	0
020.99	Total P2O5, Other (%)	0600	52.03	0.1500	52.73	1.628	0.1297	8	-0.40	NA	0
020.99	Total P2O5, Other (%)	0587	52.38	0.1600	52.73	1.628	0.1297	8	-0.20	NA	0
020.99	Total P2O5, Other (%)	0476	54.93	0.1974	52.73	1.628	0.1297	8	1.23	NA	0
020.99	Total P2O5, Other (%)	0576	55.15	0.3000	52.73	1.628	0.1297	8	1.36	NA	0
020.99	Total P2O5, Other (%)	0515	55.80	2.370	52.73	1.628	0.1297	8	1.72	NA	1
030.10	Citrate Insoluble P2O5, Gravimetric Quinolinium MolybdoP (%)	0444	48.18	0.1500				1			0
030.20	Citrate Insoluble P2O5, Spectrophotometric MolybdovanadoP (%)	0405	0.3450	0.0100				2			0
030.20	Citrate Insoluble P2O5, Spectrophotometric MolybdovanadoP (%)	0220	0.8000	0.0400				2			0
030.40	Citrate Insoluble P2O5, Automated, test portion 963.03 A-B (%)	0096	0.4550	0.1700				2			0
030.40	Citrate Insoluble P2O5, Automated, test portion 963.03 A-B (%)	0586	0.9600	0.1200				2			0
030.50	Citrate Insoluble P2O5, ICP, test portion 963.03 A-B (%)	0582	0.6200	0.0600				1			0
030.99	Citrate Insoluble P2O5, Other (%)	0593	0.5750	0.3300				1			0
040.20	Indirect Available P2O5, Spectrophotometric (%)	0220	51.58	0.0100				2			0
040.20	Indirect Available P2O5, Spectrophotometric (%)	0558	51.89	0.1393				2			0
040.40	Indirect Available P2O5, Automated (%)	0586	51.16	0.1200				2			0
040.40	Indirect Available P2O5, Automated (%)	0096	52.14	0.2000				2			0
040.99	Indirect Available P2O5, Other (%)	0593	51.78	0.5500	51.89	0.1125	0.2933	3	-0.99		0
040.99	Indirect Available P2O5, Other (%)	0582	51.89	0.1500	51.89	0.1125	0.2933	3	-0.01		0
040.99	Indirect Available P2O5, Other (%)	0405	52.00	0.1800	51.89	0.1125	0.2933	3	1.01		0
041.10	Direct Available P2O5, Gravimetric Quinolinium (%)	0177	51.25	0.1891	52.50	1.002	0.5258	5	-1.25		0
041.10	Direct Available P2O5, Gravimetric Quinolinium (%)	0040	51.75	0.1000	52.50	1.002	0.5258	5	-0.75		0
041.10	Direct Available P2O5, Gravimetric Quinolinium (%)	0102	52.85	0.3400	52.50	1.002	0.5258	5	0.35		0
041.10	Direct Available P2O5, Gravimetric Quinolinium (%)	0518	52.88	0.6400	52.50	1.002	0.5258	5	0.38		0
041.10	Direct Available P2O5, Gravimetric Quinolinium (%)	0494	53.77	1.360	52.50	1.002	0.5258	5	1.27		0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0055	50.44	0.0500	51.16	0.7419	0.3800	6	-0.87	OK	0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0073	50.64	0.5000	51.16	0.7419	0.3800	6	-0.63	OK	0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0485	50.70	0.8800	51.16	0.7419	0.3800	6	-0.56	OK	0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0220	51.50	0.0700	51.16	0.7419	0.3800	6	0.40	OK	0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0513	51.69	0.0400	51.16	0.7419	0.3800	6	0.63	OK	0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	0095	52.02	0.7400	51.16	0.7419	0.3800	6	1.03	OK	0
041.20	Direct Available P2O5, Spectrophotometric (%)	0027	51.93	0.8400	52.62	1.065	0.4000	3	-0.65		0
041.20	Direct Available P2O5, Spectrophotometric (%)	0452	52.09	0.0600	52.62	1.065	0.4000	3	-0.50		0
041.20	Direct Available P2O5, Spectrophotometric (%)	0553	53.85	0.3000	52.62	1.065	0.4000	3	1.15		0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0394	50.20	0.0210	51.38	1.271	0.1455	7	-0.84	Low	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0055	50.34	0.4500	51.38	1.271	0.1455	7	-0.74	OK	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0231	50.76	0.0000	51.38	1.271	0.1455	7	-0.44	OK	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0177	51.34	0.1077	51.38	1.271	0.1455	7	-0.03	OK	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0472	51.36	0.1300	51.38	1.271	0.1455	7	-0.02	OK	0

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			Value	Range	Rob Mean	Rob SD	Range				
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0609	52.40	0.1100	51.38	1.271	0.1455	7	0.72	OK	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	0354	53.30	0.2000	51.38	1.271	0.1455	7	1.36	High	0
041.40	Direct Available P2O5, Automated, Citrate-EDTA Ext. (%)	0018	52.10	0.0000	52.17	0.0898	0.0767	3	-0.76		0
041.40	Direct Available P2O5, Automated, Citrate-EDTA Ext. (%)	0029	52.14	0.2300	52.17	0.0898	0.0767	3	-0.37		0
041.40	Direct Available P2O5, Automated, Citrate-EDTA Ext. (%)	0034	52.27	0.0000	52.17	0.0898	0.0767	3	1.13		0
041.50	Direct Available P2O5, ICP (%)	0421	50.65	1.700	51.40	0.5358	0.9625	4	-1.41		0
041.50	Direct Available P2O5, ICP (%)	0007	51.45	1.500	51.40	0.5358	0.9625	4	0.09		0
041.50	Direct Available P2O5, ICP (%)	0605	51.62	0.2500	51.40	0.5358	0.9625	4	0.39		0
041.50	Direct Available P2O5, ICP (%)	0325	51.90	0.4000	51.40	0.5358	0.9625	4	0.93		0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0423	49.18	0.2000	51.40	1.401	0.5404	10	-1.47	Low	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0025	49.75	0.7000	51.40	1.401	0.5404	10	-1.09	Low	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0117	50.13	0.0554	51.40	1.401	0.5404	10	-0.84	Low	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0377	51.60	0.4100	51.40	1.401	0.5404	10	0.13	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0494	51.83	1.230	51.40	1.401	0.5404	10	0.28	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0360	51.89	0.1200	51.40	1.401	0.5404	10	0.33	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0136	51.90	1.530	51.40	1.401	0.5404	10	0.33	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0043	52.26	0.4300	51.40	1.401	0.5404	10	0.57	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0037	52.30	0.0290	51.40	1.401	0.5404	10	0.60	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0023	53.05	0.7000	51.40	1.401	0.5404	10	1.10	High	0
041.99	Direct Available P2O5, Other (%)	0532	51.69	0.1000	51.92	0.0923	0.1733	9	-2.32	OK	0
041.99	Direct Available P2O5, Other (%)	0569	51.87	0.2400	51.92	0.0923	0.1733	9	-0.52	OK	0
041.99	Direct Available P2O5, Other (%)	0551	51.88	0.0500	51.92	0.0923	0.1733	9	-0.47	OK	0
041.99	Direct Available P2O5, Other (%)	0567	51.88	0.0500	51.92	0.0923	0.1733	9	-0.47	OK	0
041.99	Direct Available P2O5, Other (%)	0600	51.93	0.1500	51.92	0.0923	0.1733	9	0.03	OK	0
041.99	Direct Available P2O5, Other (%)	0562	51.95	0.1000	51.92	0.0923	0.1733	9	0.28	OK	0
041.99	Direct Available P2O5, Other (%)	0549	51.97	0.2300	51.92	0.0923	0.1733	9	0.43	OK	0
041.99	Direct Available P2O5, Other (%)	0538	52.00	0.0900	51.92	0.0923	0.1733	9	0.73	OK	0
041.99	Direct Available P2O5, Other (%)	0577	52.95	0.5500	51.92	0.0923	0.1733	9	10.23	OK	0
048.10	Water Soluble P2O5, Gravimetric Quinolinium (%)	0570	44.66	0.0500				2			0
048.10	Water Soluble P2O5, Gravimetric Quinolinium (%)	0444	46.87	0.1400				2			0
048.20	Water Soluble P2O5, Spectrophotometric (%)	0472	43.33	0.5600	45.16	1.583	0.3667	3	-1.15		0
048.20	Water Soluble P2O5, Spectrophotometric (%)	0593	46.01	0.4600	45.16	1.583	0.3667	3	0.54		0
048.20	Water Soluble P2O5, Spectrophotometric (%)	0220	46.13	0.0800	45.16	1.583	0.3667	3	0.61		0
048.40	Water Soluble P2O5, Automated (%)	0096	45.85	0.1200				1			0
048.50	Water Soluble P2O5, ICP (%)	0444	47.61	0.7000				1			0
048.99	Water Soluble P2O5, Other (%)	0513	45.78	0.0700				1			0
050.50	Soluble K2O, ICP (Oxalate) (%)	0422	0.2095	0.0008				1			0
050.52	Soluble K2O, ICP (Citrate-EDTA) (%)	0423	0.1780	0.0040				2			0
050.52	Soluble K2O, ICP (Citrate-EDTA) (%)	0354	0.1995	0.0110				2			0
050.99	Soluble K2O, Other (%)	0553	0.0735	0.0030	0.1695	0.0652	0.0022	4	-1.47		0
050.99	Soluble K2O, Other (%)	0527	0.1868	0.0040	0.1695	0.0652	0.0022	4	0.27		0
050.99	Soluble K2O, Other (%)	0389	0.2000	0.0000	0.1695	0.0652	0.0022	4	0.47		0
050.99	Soluble K2O, Other (%)	0524	0.2177	0.0017	0.1695	0.0652	0.0022	4	0.74		0

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050.99	Soluble K2O, Other (%)	0325	< 0.1		0.1695	0.0652	0.0022	4			5
060.00	Water (Free), Vacuum Oven (%)	0513	0.3950	0.0100				1			0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 hours, 5g sampl	0593	1.625	0.1100				1			0
060.99	Water (Free), Other (%)	0510	1.474	0.0619				1			0
101.00	Acid Soluble Ca, AA, inorganic 965.09 (%)	0553	0.0130	0.0000				1			0
101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	0035	0.1360	0.0200				2			0
101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	0354	0.1700	0.0000				2			0
101.32	Acid Soluble Ca, ICP, test portion 2006.03A-C (%)	0423	0.1420	0.0020				1			0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0527	0.0692	0.0042	0.1254	0.0500	0.0121	3	-1.12		0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0494	0.1419	0.0020	0.1254	0.0500	0.0121	3	0.33		0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0472	0.1650	0.0300	0.1254	0.0500	0.0121	3	0.79		0
101.99	Acid Soluble Ca, Other (%)	0389	0.1150	0.0100				2			0
101.99	Acid Soluble Ca, Other (%)	0593	0.1900	0.0200				2			0
121.00	Acid Soluble Mg, AA, inorganic 965.09 (%)	0553	0.5110	0.8480				1			0
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	0035	0.8175	0.0310				2			0
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	0354	0.8700	0.0200				2			0
121.32	Acid Soluble Mg, ICP, test portion 2006.03A-C (%)	0423	0.8625	0.0030				1			0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0515	0.8245	0.0057	0.8962	0.0632	0.0063	4	-1.13		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0494	0.8616	0.0118	0.8962	0.0632	0.0063	4	-0.55		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0527	0.9487	0.0077	0.8962	0.0632	0.0063	4	0.83		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0472	0.9500	0.0000	0.8962	0.0632	0.0063	4	0.85		0
121.99	Acid Soluble Mg, Other (%)	0524	0.7844	0.0002	0.8516	0.0539	0.0026	4	-1.25		0
121.99	Acid Soluble Mg, Other (%)	0515	0.8321	0.0103	0.8516	0.0539	0.0026	4	-0.36		0
121.99	Acid Soluble Mg, Other (%)	0389	0.8900	0.0000	0.8516	0.0539	0.0026	4	0.71		0
121.99	Acid Soluble Mg, Other (%)	0593	0.9000	0.0000	0.8516	0.0539	0.0026	4	0.90		0
143.99	Elemental S, Other (%)	0389	1.345	0.0100				1			0
145.99	Sulfate S, HCl soluble, Other (%)	0553	1.535	0.0100	3.327	1.554	0.1533	3	-1.15		0
145.99	Sulfate S, HCl soluble, Other (%)	0593	4.130	0.3400	3.327	1.554	0.1533	3	0.52		0
145.99	Sulfate S, HCl soluble, Other (%)	0582	4.315	0.1100	3.327	1.554	0.1533	3	0.64		0
148.00	Total S, Combustion (%)	0593	1.380	0.1200				1			0
148.07	Total S, ICP, test portion as in 2017.02 (%)	0515	0.8660	0.0166	1.180	0.2699	0.0275	5	-1.17		0
148.07	Total S, ICP, test portion as in 2017.02 (%)	0527	0.9066	0.0013	1.180	0.2699	0.0275	5	-1.01		0
148.07	Total S, ICP, test portion as in 2017.02 (%)	0472	1.340	0.0200	1.180	0.2699	0.0275	5	0.59		0
148.07	Total S, ICP, test portion as in 2017.02 (%)	0494	1.395	0.0296	1.180	0.2699	0.0275	5	0.79		0
148.07	Total S, ICP, test portion as in 2017.02 (%)	0043	1.395	0.0700	1.180	0.2699	0.0275	5	0.79		0
148.99	Total S, Other (%)	0422	1.231	0.0310				2			0
148.99	Total S, Other (%)	0354	1.375	0.0500				2			0
149.04	S - HNO3 soluble, ICP (%)	0524	1.393	0.0191				2			0
149.04	S - HNO3 soluble, ICP (%)	0423	1.435	0.0300				2			0
151.30	Acid Soluble As, ICP (ppm)	0593	5.290	0.4600	15.66	4.157	0.6286	9	-2.30	NA	0
151.30	Acid Soluble As, ICP (ppm)	0096	10.65	1.500	15.66	4.157	0.6286	9	-1.11	NA	0
151.30	Acid Soluble As, ICP (ppm)	0605	13.56	0.4300	15.66	4.157	0.6286	9	-0.47	NA	0
151.30	Acid Soluble As, ICP (ppm)	0586	16.25	0.5000	15.66	4.157	0.6286	9	0.13	NA	0

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151.30	Acid Soluble As, ICP (ppm)	0450	16.30	1.400	15.66	4.157	0.6286	9	0.14	NA	0
151.30	Acid Soluble As, ICP (ppm)	0524	18.22	0.0672	15.66	4.157	0.6286	9	0.57	NA	0
151.30	Acid Soluble As, ICP (ppm)	0582	18.30	0.2000	15.66	4.157	0.6286	9	0.59	NA	0
151.30	Acid Soluble As, ICP (ppm)	0027	18.50	1.000	15.66	4.157	0.6286	9	0.63	NA	0
151.30	Acid Soluble As, ICP (ppm)	0513	19.75	0.1000	15.66	4.157	0.6286	9	0.91	NA	0
151.30	Acid Soluble As, ICP (ppm)	0255	0.0000	0.0000	15.66	4.157	0.6286	9			4
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	0220	8.200	0.2000				2			0
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	0405	16.50	1.000				2			0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0037	15.36	0.2220	23.59	12.50	0.3954	5	-0.57		0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0136	16.99	0.2000	23.59	12.50	0.3954	5	-0.46		0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0527	19.21	0.0999	23.59	12.50	0.3954	5	-0.31		0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0563	20.74	0.1553	23.59	12.50	0.3954	5	-0.20		0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0494	45.65	1.300	23.59	12.50	0.3954	5	1.54		0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0515	21.32	8.400	23.59	12.50	0.3954	5	-0.16		1
151.34	Acid Soluble As, ICP, EPA 3050B/6010C (ppm)	0368	11.60	1.800				2			0
151.34	Acid Soluble As, ICP, EPA 3050B/6010C (ppm)	0515	20.40	6.590				2			0
151.99	Acid Soluble As, Other (ppm)	0220	9.050	0.1000				1			0
165.00	Acid Soluble B, Spectrophotometric (%)	0553	0.0115	0.0010				1			0
165.30	Acid Soluble B, ICP, test portion in 982.01 (%)	0494	0.0063	0.0008	0.0149	0.0075	0.0012	3	-1.15		0
165.30	Acid Soluble B, ICP, test portion in 982.01 (%)	0389	0.0185	0.0028	0.0149	0.0075	0.0012	3	0.47		0
165.30	Acid Soluble B, ICP, test portion in 982.01 (%)	0354	0.0200	0.0000	0.0149	0.0075	0.0012	3	0.67		0
165.99	Acid Soluble B, Other (%)	0515	0.0031	0.0040	0.0091	0.0070	0.0013	5	-0.74		0
165.99	Acid Soluble B, Other (%)	0593	0.0043	0.0003	0.0091	0.0070	0.0013	5	-0.60		0
165.99	Acid Soluble B, Other (%)	0524	0.0059	0.0004	0.0091	0.0070	0.0013	5	-0.39		0
165.99	Acid Soluble B, Other (%)	0600	0.0120	0.0020	0.0091	0.0070	0.0013	5	0.37		0
165.99	Acid Soluble B, Other (%)	0472	0.0200	0.0000	0.0091	0.0070	0.0013	5	1.36		0
165.99	Acid Soluble B, Other (%)	0423	70.79	1.110	0.0091	0.0070	0.0013	5	8803.72		2
165.99	Acid Soluble B, Other (%)	0527	< 0.01		0.0091	0.0070	0.0013	5			5
181.00	Acid Soluble Cd, AA, test portion 2006.03 modified w/dual acid	0534	3.770	0.0000				1			0
181.30	Acid Soluble Cd, ICP (ppm)	0096	2.600	0.0000	4.912	1.678	0.3576	12	-1.38	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0444	3.695	0.3900	4.912	1.678	0.3576	12	-0.73	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0389	4.165	0.0300	4.912	1.678	0.3576	12	-0.45	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0524	4.272	0.1864	4.912	1.678	0.3576	12	-0.38	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0605	4.313	0.8050	4.912	1.678	0.3576	12	-0.36	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0035	4.470	0.6400	4.912	1.678	0.3576	12	-0.26	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0394	4.550	0.1000	4.912	1.678	0.3576	12	-0.22	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0255	4.671	0.4400	4.912	1.678	0.3576	12	-0.14	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0586	4.750	0.5000	4.912	1.678	0.3576	12	-0.10	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0513	6.600	0.0000	4.912	1.678	0.3576	12	1.01	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0450	22.00	0.0000	4.912	1.678	0.3576	12	10.18	NA	0
181.30	Acid Soluble Cd, ICP (ppm)	0593	42.20	1.200	4.912	1.678	0.3576	12	22.22	NA	0
181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	0220	4.600	0.2000				2			0
181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	0405	5.000	0.0000				2			0

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			Value	Range	Rob Mean	Rob SD	Range				
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0494	4.070	0.0400	4.539	0.3699	0.0677	5	-1.27		0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0527	4.443	0.2303	4.539	0.3699	0.0677	5	-0.26		0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0037	4.518	0.0030	4.539	0.3699	0.0677	5	-0.06		0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0136	4.565	0.0500	4.539	0.3699	0.0677	5	0.07		0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0563	5.102	0.0150	4.539	0.3699	0.0677	5	1.52		0
181.34	Acid Soluble Cd, ICP, EPA 3050B/6010C (ppm)	0368	4.900	0.0000				1			0
181.99	Acid Soluble Cd, Other (ppm)	0220	4.650	0.1000				1			0
191.30	Acid Soluble Cr, ICP (ppm)	0444	89.57	0.2000	103.0	15.56	3.249	11	-0.81	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0394	90.50	1.000	103.0	15.56	3.249	11	-0.75	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0605	92.69	6.150	103.0	15.56	3.249	11	-0.62	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0035	93.20	8.000	103.0	15.56	3.249	11	-0.59	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0027	94.00	6.000	103.0	15.56	3.249	11	-0.54	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0524	95.71	5.065	103.0	15.56	3.249	11	-0.44	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0389	102.2	0.0200	103.0	15.56	3.249	11	-0.05	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0586	108.5	3.000	103.0	15.56	3.249	11	0.33	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0450	115.0	2.000	103.0	15.56	3.249	11	0.72	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0513	125.2	0.3000	103.0	15.56	3.249	11	1.33	NA	0
191.30	Acid Soluble Cr, ICP (ppm)	0593	218.0	4.000	103.0	15.56	3.249	11	6.92	NA	0
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	0405	100.0	2.000				2			0
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	0220	101.5	1.000				2			0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0136	86.75	3.930	98.53	10.68	4.834	6	-0.98	NA	0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0563	93.03	0.5372	98.53	10.68	4.834	6	-0.46	NA	0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0037	96.56	0.2850	98.53	10.68	4.834	6	-0.16	NA	0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0494	96.83	8.667	98.53	10.68	4.834	6	-0.14	NA	0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0527	104.1	0.5836	98.53	10.68	4.834	6	0.47	NA	0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0515	113.9	15.00	98.53	10.68	4.834	6	1.28	NA	0
191.34	Acid Soluble Cr, ICP, EPA 3050B/6010C (ppm)	0515	102.4	8.650				2			0
191.34	Acid Soluble Cr, ICP, EPA 3050B/6010C (ppm)	0368	102.5	1.000				2			0
191.99	Acid Soluble Cr, Other (ppm)	0220	105.5	3.000				1			0
202.30	Acid Soluble Co, ICP (ppm)	0593	1.380	0.0600	2.738	1.258	0.2792	7	-0.98	OK	0
202.30	Acid Soluble Co, ICP (ppm)	0586	1.500	1.000	2.738	1.258	0.2792	7	-0.89	OK	0
202.30	Acid Soluble Co, ICP (ppm)	0389	2.225	0.0500	2.738	1.258	0.2792	7	-0.37	OK	0
202.30	Acid Soluble Co, ICP (ppm)	0450	2.700	0.0000	2.738	1.258	0.2792	7	-0.03	OK	0
202.30	Acid Soluble Co, ICP (ppm)	0605	3.275	0.5300	2.738	1.258	0.2792	7	0.39	OK	0
202.30	Acid Soluble Co, ICP (ppm)	0035	3.885	0.3100	2.738	1.258	0.2792	7	0.82	OK	0
202.30	Acid Soluble Co, ICP (ppm)	0524	4.199	0.0044	2.738	1.258	0.2792	7	1.05	OK	0
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	0405	3.000	0.0000	3.165	0.1522	0.0033	3	-1.08		0
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	0423	3.195	0.0100	3.165	0.1522	0.0033	3	0.20		0
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	0220	3.300	0.0000	3.165	0.1522	0.0033	3	0.89		0
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0136	2.705	0.2100	3.069	0.3321	0.0933	5	-1.10		0
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0563	2.924	0.1011	3.069	0.3321	0.0933	5	-0.44		0
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0527	2.934	0.0875	3.069	0.3321	0.0933	5	-0.41		0
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0494	3.215	0.0500	3.069	0.3321	0.0933	5	0.44		0

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			Value	Range	Rob Mean	Rob SD	Range				
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0037	3.567	0.0180	3.069	0.3321	0.0933	5	1.50		0
202.34	Acid Soluble Co, ICP, EPA 3050B/6010C (ppm)	0368	3.500	0.6000				1			0
202.99	Acid Soluble Co, Other (ppm)	0220	3.450	0.1000				2			0
202.99	Acid Soluble Co, Other (ppm)	0255	17.26	11.09				2			0
221.00	Acid Soluble Cu, AA, inorganic 965.09 (%)	0553	< 0.005					0			5
221.03	Acid Soluble Cu, AA, 965.09, test portion 2006.03A-C w/dual a	0534	< 2					0			5
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0255	0.0000	0.0000				0			4
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0354	< 0.01					0			5
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	0394	< 0.0002					0			5
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	0405	< 0.0002					0			5
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0515	0.0016	0.0001				1			0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0527	< 0.0001					1			5
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0136	< 0.0002					1			5
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0494	< 0.0002					1			5
221.99	Acid Soluble Cu, Other (%)	0368	0.0001	0.0000	0.0010	0.0011	0.0001	5	-0.80		0
221.99	Acid Soluble Cu, Other (%)	0586	0.0003	0.0002	0.0010	0.0011	0.0001	5	-0.62		0
221.99	Acid Soluble Cu, Other (%)	0600	0.0008	0.0002	0.0010	0.0011	0.0001	5	-0.16		0
221.99	Acid Soluble Cu, Other (%)	0593	0.0009	0.0001	0.0010	0.0011	0.0001	5	-0.12		0
221.99	Acid Soluble Cu, Other (%)	0515	0.0029	0.0001	0.0010	0.0011	0.0001	5	1.71		0
241.00	Acid Soluble Fe, AA, inorganic 965.09 (%)	0553	1.155	0.0100				1			0
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	0354	1.170	0.0200				2			0
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	0035	1.185	0.0100				2			0
241.32	Acid Soluble Fe, ICP, test portion 2006.03A-C (%)	0423	1.217	0.0070				1			0
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	0472	1.155	0.0100	1.182	0.0312	0.0144	4	-0.88		0
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	0494	1.156	0.0413	1.182	0.0312	0.0144	4	-0.84		0
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	0515	1.204	0.0005	1.182	0.0312	0.0144	4	0.68		0
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	0527	1.215	0.0057	1.182	0.0312	0.0144	4	1.03		0
241.99	Acid Soluble Fe, Other (%)	0515	1.143	0.0927	1.244	0.0974	0.0391	5	-1.04		0
241.99	Acid Soluble Fe, Other (%)	0593	1.190	0.0000	1.244	0.0974	0.0391	5	-0.56		0
241.99	Acid Soluble Fe, Other (%)	0524	1.237	0.0006	1.244	0.0974	0.0391	5	-0.07		0
241.99	Acid Soluble Fe, Other (%)	0389	1.250	0.0000	1.244	0.0974	0.0391	5	0.06		0
241.99	Acid Soluble Fe, Other (%)	0600	1.401	0.1020	1.244	0.0974	0.0391	5	1.61		0
251.00	Acid Soluble Pb, AA, test portion 2006.03 modified w/dual acid	0534	< 2					0			5
251.30	Acid Soluble Pb, ICP (ppm)	0389	0.1600	0.0000	0.5783	0.3278	0.0961	5	-1.11		0
251.30	Acid Soluble Pb, ICP (ppm)	0593	0.3160	0.0080	0.5783	0.3278	0.0961	5	-0.70		0
251.30	Acid Soluble Pb, ICP (ppm)	0394	0.7300	0.1200	0.5783	0.3278	0.0961	5	0.40		0
251.30	Acid Soluble Pb, ICP (ppm)	0524	0.7357	0.0523	0.5783	0.3278	0.0961	5	0.42		0
251.30	Acid Soluble Pb, ICP (ppm)	0450	0.9500	0.3000	0.5783	0.3278	0.0961	5	0.99		0
251.30	Acid Soluble Pb, ICP (ppm)	0035	2.620	0.8600	0.5783	0.3278	0.0961	5	5.44		1
251.30	Acid Soluble Pb, ICP (ppm)	0255	0.0000	0.0000	0.5783	0.3278	0.0961	5			4
251.30	Acid Soluble Pb, ICP (ppm)	0586	< 1.2		0.5783	0.3278	0.0961	5			5
251.30	Acid Soluble Pb, ICP (ppm)	0605	< 5		0.5783	0.3278	0.0961	5			5
251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	0220	7.950	0.1000				1			0

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251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	0405	< 4					1			5
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0563	1.016	0.0007	3.201	3.406	1.442	4	-0.64		0
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0527	1.061	0.0637	3.201	3.406	1.442	4	-0.63		0
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0515	2.528	4.666	3.201	3.406	1.442	4	-0.20		0
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0494	8.200	1.040	3.201	3.406	1.442	4	1.47		0
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0136	< 3		3.201	3.406	1.442	4			5
251.34	Acid Soluble Pb, ICP, EPA 3050B/6010C (ppm)	0368	< 0.6					0			5
251.99	Acid Soluble Pb, Other (ppm)	0220	8.150	0.1000				1			0
261.00	Acid Soluble Mn, AA, Mn2+ only (%)	0553	0.0345	0.0010				1			0
261.30	Acid Soluble Mn, ICP, test portion 972.02a (%)	0354	0.0300	0.0000				2			0
261.30	Acid Soluble Mn, ICP, test portion 972.02a (%)	0035	0.0355	0.0010				2			0
261.34	Acid Soluble Mn, ICP, test portion 2006.03A-C (%)	0423	361.7	2.800				1			0
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	0472	0.0300	0.0000	0.0337	0.0033	0.0006	3	-1.12		0
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	0494	0.0348	0.0017	0.0337	0.0033	0.0006	3	0.33		0
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	0527	0.0363	0.0001	0.0337	0.0033	0.0006	3	0.79		0
261.99	Acid Soluble Mn, Other (%)	0593	0.0190	0.0008	0.0278	0.0088	0.0006	4	-1.00		0
261.99	Acid Soluble Mn, Other (%)	0600	0.0215	0.0010	0.0278	0.0088	0.0006	4	-0.72		0
261.99	Acid Soluble Mn, Other (%)	0524	0.0347	0.0004	0.0278	0.0088	0.0006	4	0.78		0
261.99	Acid Soluble Mn, Other (%)	0389	0.0362	0.0001	0.0278	0.0088	0.0006	4	0.94		0
281.30	Acid Soluble Hg, ICP (ppm)	0593	0.0180	0.0012				1			0
281.30	Acid Soluble Hg, ICP (ppm)	0527	< 0.001					1			5
281.30	Acid Soluble Hg, ICP (ppm)	0515	< 0.017					1			5
281.30	Acid Soluble Hg, ICP (ppm)	0450	< 0.5					1			5
281.30	Acid Soluble Hg, ICP (ppm)	0605	< 1.25					1			5
281.30	Acid Soluble Hg, ICP (ppm)	0405	< 2					1			5
281.99	Acid Soluble Hg, Other (ppm)	0524	0.0015	0.0001	0.0020	0.0005	0.0006	3	-0.98		0
281.99	Acid Soluble Hg, Other (ppm)	0368	0.0020	0.0007	0.0020	0.0005	0.0006	3	-0.03		0
281.99	Acid Soluble Hg, Other (ppm)	0035	0.0025	0.0010	0.0020	0.0005	0.0006	3	1.02		0
281.99	Acid Soluble Hg, Other (ppm)	0220	< 0.01		0.0020	0.0005	0.0006	3			5
289.30	Acid Soluble Mo, ICP (ppm)	0593	6.930	0.2600	15.03	4.445	0.7831	9	-1.68	Low	0
289.30	Acid Soluble Mo, ICP (ppm)	0035	12.20	0.8000	15.03	4.445	0.7831	9	-0.59	OK	0
289.30	Acid Soluble Mo, ICP (ppm)	0255	12.64	0.3100	15.03	4.445	0.7831	9	-0.50	OK	0
289.30	Acid Soluble Mo, ICP (ppm)	0450	14.80	0.4000	15.03	4.445	0.7831	9	-0.05	OK	0
289.30	Acid Soluble Mo, ICP (ppm)	0524	15.05	0.2177	15.03	4.445	0.7831	9	0.00	OK	0
289.30	Acid Soluble Mo, ICP (ppm)	0605	15.24	1.860	15.03	4.445	0.7831	9	0.04	OK	0
289.30	Acid Soluble Mo, ICP (ppm)	0096	15.75	0.1000	15.03	4.445	0.7831	9	0.15	OK	0
289.30	Acid Soluble Mo, ICP (ppm)	0513	19.75	0.1000	15.03	4.445	0.7831	9	0.98	OK	0
289.30	Acid Soluble Mo, ICP (ppm)	0586	21.50	3.000	15.03	4.445	0.7831	9	1.34	High	0
289.32	Acid Soluble Mo, ICP, 2006.03 (ppm)	0405	16.50	1.000				1			0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0136	14.38	0.6900	15.42	0.7917	0.2796	6	-1.17	OK	0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0494	14.80	0.6000	15.42	0.7917	0.2796	6	-0.70	OK	0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0037	15.45	0.1090	15.42	0.7917	0.2796	6	0.04	OK	0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0423	15.77	0.0300	15.42	0.7917	0.2796	6	0.39	OK	0

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			Value	Range	Rob Mean	Rob SD	Range				
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0563	15.97	0.0670	15.42	0.7917	0.2796	6	0.62	OK	0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0527	16.16	0.1813	15.42	0.7917	0.2796	6	0.83	OK	0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0515	18.39	5.090	15.42	0.7917	0.2796	6	3.34	OK	1
289.34	Acid Soluble Mo, ICP, EPA 3050B/6010C (ppm)	0515	15.09	7.070				1			0
289.34	Acid Soluble Mo, ICP, EPA 3050B/6010C (ppm)	0368	0.0000	0.0000				1			4
291.30	Acid Soluble Ni, ICP (ppm)	0444	10.12	0.1000	11.40	1.059	0.6283	12	-1.21	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0096	10.65	2.100	11.40	1.059	0.6283	12	-0.71	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0035	10.75	0.3000	11.40	1.059	0.6283	12	-0.61	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0605	10.89	0.0900	11.40	1.059	0.6283	12	-0.49	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0450	11.00	0.0000	11.40	1.059	0.6283	12	-0.38	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0586	11.00	2.000	11.40	1.059	0.6283	12	-0.38	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0389	11.06	0.6200	11.40	1.059	0.6283	12	-0.32	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0524	11.36	0.0295	11.40	1.059	0.6283	12	-0.04	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0027	11.50	1.000	11.40	1.059	0.6283	12	0.09	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0394	12.50	1.000	11.40	1.059	0.6283	12	1.04	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0513	19.75	0.1000	11.40	1.059	0.6283	12	7.89	NA	0
291.30	Acid Soluble Ni, ICP (ppm)	0593	28.60	0.2000	11.40	1.059	0.6283	12	16.24	NA	0
291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	0220	12.05	0.1000				2			0
291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	0405	13.50	1.000				2			0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0515	5.908	3.776	10.50	3.377	1.091	6	-1.21	NA	0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0563	7.985	0.1562	10.50	3.377	1.091	6	-0.66	NA	0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0136	10.69	0.8200	10.50	3.377	1.091	6	0.05	NA	0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0037	12.20	0.0810	10.50	3.377	1.091	6	0.45	NA	0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0527	12.67	0.0157	10.50	3.377	1.091	6	0.57	NA	0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0494	13.55	1.700	10.50	3.377	1.091	6	0.80	NA	0
291.34	Acid Soluble Ni, ICP, EPA 3050B/6010C (ppm)	0515	4.908	3.763				2			0
291.34	Acid Soluble Ni, ICP, EPA 3050B/6010C (ppm)	0368	13.35	0.5000				2			0
291.99	Acid Soluble Ni, Other (ppm)	0220	13.00	0.0000				2			0
291.99	Acid Soluble Ni, Other (ppm)	0255	54.21	6.380				2			0
301.30	Acid Soluble Se, ICP (ppm)	0524	1.086	0.4220				2			0
301.30	Acid Soluble Se, ICP (ppm)	0593	1.990	0.0600				2			0
301.30	Acid Soluble Se, ICP (ppm)	0605	< 1.65					2			5
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	0405	< 10					0			5
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	0563	1.645	0.1060				2			0
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	0515	10.15	3.247				2			0
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	0527	< 0.001					2			5
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	0494	< 1					2			5
301.34	Acid Soluble Se, ICP, EPA 3050B/6010C (ppm)	0515	6.388	11.06				1			0
301.34	Acid Soluble Se, ICP, EPA 3050B/6010C (ppm)	0368	< 1.1					1			5
301.99	Acid Soluble Se, Other (ppm)	0255	0.0000	0.0000				0			4
301.99	Acid Soluble Se, Other (ppm)	0220	< 0.3					0			5
311.00	Sodium, AA (%)	0553	0.0795	0.0010				1			0
311.33	Sodium, ICP, test portion as in 2017.02 (%)	0494	0.1341	0.0064	0.1408	0.0102	0.0028	4	-0.65		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				
311.33	Sodium, ICP, test portion as in 2017.02 (%)	0527	0.1360	0.0009	0.1408	0.0102	0.0028	4	-0.47		0
311.33	Sodium, ICP, test portion as in 2017.02 (%)	0423	0.1370	0.0020	0.1408	0.0102	0.0028	4	-0.37		0
311.33	Sodium, ICP, test portion as in 2017.02 (%)	0035	0.1560	0.0020	0.1408	0.0102	0.0028	4	1.49		0
311.99	Sodium, Other (%)	0354	0.1650	0.0100				1			0
321.00	Acid Soluble Zn, AA, inorganic 965.09 (%)	0553	0.0060	0.0000				1			0
321.03	Acid Soluble Zn, AA, 965.09, test portion 2006.03A-C w/dual a	0534	0.0060	0.0001				1			0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0255	0.0050	0.0000	13.61	30.41	0.4000	5	-0.39		0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0035	0.0064	0.0001	13.61	30.41	0.4000	5	-0.39		0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0444	0.0080	0.0000	13.61	30.41	0.4000	5	-0.39		0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0513	0.0100	0.0000	13.61	30.41	0.4000	5	-0.39		0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0450	68.00	2.000	13.61	30.41	0.4000	5	1.56		0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0096	95.00	6.800	13.61	30.41	0.4000	5	2.34		1
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0354	< 0.01		13.61	30.41	0.4000	5			5
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	0220	0.0048	0.0004	35.42	70.82	1.126	4	-0.50		0
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	0405	0.0069	0.0002	35.42	70.82	1.126	4	-0.50		0
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	0394	0.0093	0.0014	35.42	70.82	1.126	4	-0.50		0
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	0423	141.7	4.500	35.42	70.82	1.126	4	1.50		0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0515	0.0055	0.0009	0.0069	0.0012	0.0005	7	-1.08	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0136	0.0059	0.0002	0.0069	0.0012	0.0005	7	-0.74	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0563	0.0067	0.0006	0.0069	0.0012	0.0005	7	-0.14	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0037	0.0070	0.0005	0.0069	0.0012	0.0005	7	0.05	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0527	0.0070	0.0002	0.0069	0.0012	0.0005	7	0.09	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0043	0.0075	0.0010	0.0069	0.0012	0.0005	7	0.47	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0472	0.0100	0.0000	0.0069	0.0012	0.0005	7	2.36	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0593	< 0.0003		0.0069	0.0012	0.0005	7			5
321.99	Acid Soluble Zn, Other (%)	0389	0.0045	0.0001	0.0059	0.0011	0.0003	7	-1.18	OK	0
321.99	Acid Soluble Zn, Other (%)	0368	0.0052	0.0004	0.0059	0.0011	0.0003	7	-0.58	OK	0
321.99	Acid Soluble Zn, Other (%)	0220	0.0053	0.0001	0.0059	0.0011	0.0003	7	-0.54	OK	0
321.99	Acid Soluble Zn, Other (%)	0515	0.0060	0.0004	0.0059	0.0011	0.0003	7	0.06	OK	0
321.99	Acid Soluble Zn, Other (%)	0027	0.0065	0.0010	0.0059	0.0011	0.0003	7	0.45	OK	0
321.99	Acid Soluble Zn, Other (%)	0586	0.0070	0.0000	0.0059	0.0011	0.0003	7	0.85	OK	0
321.99	Acid Soluble Zn, Other (%)	0524	0.0071	0.0000	0.0059	0.0011	0.0003	7	0.93	OK	0
321.99	Acid Soluble Zn, Other (%)	0600	0.0850	0.0200	0.0059	0.0011	0.0003	7	62.89	High	2

Interpreting Z Scores and Flags:

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

Notes:

Robust statistics not used if < 6 labs used in calculations, in this case Values and Z Scores are grayed out and should be interpreted with extreme caution. IA Status describes where your result is relative to the Assigned Value ± 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.