

- Pass 1 Results for 71 Labs - - Pass 2 Results for 70 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation .	920.03	001.10	6	10.75	0.40	0.06	6	10.75	0.40	0.06
Ammoniacal Nitrogen, Other .....		001.99	6	10.91	0.36	0.09	5	10.98	0.33	0.04
Method Group 001.XX PCT			12	10.83	0.38	0.08	11	10.86	0.38	0.05
Ammon & Nitrate N, Devarda .....	892.01	009.10	3	11.12	0.24	0.18	3	11.12	0.24	0.18
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	11.07	0.16	0.07	4	11.14	0.06	0.03
Total Nitrogen, Salicylic .....	955.04D	010.12	2	10.98	0.06	0.02	2	10.98	0.06	0.02
Total Nitrogen, Combustion .....		010.60	45	11.08	0.21	0.10	41	11.08	0.19	0.06
Total Nitrogen, Other .....		010.99	3	11.13	0.10	0.14	3	11.13	0.10	0.14
Method Group 010.XX PCT			55	11.08	0.20	0.10	51	11.08	0.18	0.07
Total Phosphate, Grav Quimociac .....	962.02	020.10	8	51.78	0.35	0.12	7	51.86	0.27	0.08
Total Phosphate, Spectrometric .....	958.01	020.20	14	51.60	0.53	0.47	13	51.62	0.44	0.33
Total Phosphate, Alka Quimociac .....	969.02	020.30	1	51.12	0.13	0.19	1	51.12	0.13	0.19
Total Phosphate, Automated .....	978.01	020.40	5	51.24	0.59	0.16	5	51.24	0.59	0.16
Total Phosphate, ICP .....		020.50	7	51.45	0.72	0.57	7	51.45	0.72	0.57
Total Phosphate, Other .....		020.99	1	51.53	0.06	0.09	1	51.53	0.06	0.09
Method Group 020.XX PCT			37	51.51	0.58	0.36	34	51.54	0.53	0.24
Insoluble Phosphate, Spectrometric ....	963.03C	030.20	2	0.18	0.02	0.03	2	0.18	0.02	0.03
Insoluble Phosphate, Automated .....	978.01	030.40	1	0.10	0.01	0.01	1	0.10	0.01	0.01
Insoluble Phosphate, Other .....		030.99	1	0.08	0.01	0.01	1	0.08	0.01	0.01
Method Group 030.XX PCT			4	0.13	0.05	0.02	4	0.13	0.05	0.02
InDir Available Phosphate, Spectrometri	960.02	040.20	3	51.54	0.16	0.11	3	51.54	0.16	0.11
InDir Available Phosphate, Automated ..	960.02	040.40	2	50.63	1.07	0.04	2	50.63	1.07	0.04
InDir Available Phosphate, ICP .....		040.50	1	50.43	0.06	0.08	1	50.43	0.06	0.08
InDir Available Phosphate, Other .....		040.99	1	51.48	0.20	0.28	1	51.48	0.20	0.28
Method Group 040.XX PCT			7	51.11	0.72	0.11	7	51.11	0.72	0.11
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	11	51.34	0.35	0.12	10	51.32	0.35	0.08
Dir Available Phosphate, Automated ....	978.01	041.40	2	51.27	0.55	0.11	2	51.27	0.55	0.11
Dir Available Phosphate, ICP .....		041.50	6	51.52	0.47	0.27	6	51.52	0.47	0.27
Dir Available Phosphate, EDTA Extract .	993.01	041.60	10	51.42	0.37	0.25	9	51.37	0.31	0.16
Dir Available Phosphate, Other .....		041.99	2	50.87	0.64	0.41	2	50.87	0.64	0.41
Method Group 041.XX PCT			32	51.34	0.46	0.21	29	51.32	0.39	0.15
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	44.74	0.18	0.25	1	44.74	0.18	0.25
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	46.38	1.09	0.12	3	46.38	1.09	0.12
Water Soluble Phosphate, Other .....		048.99	1	45.96	0.18	0.25	1	45.96	0.18	0.25
Method Group 048.XX PCT			5	45.96	1.05	0.17	5	45.96	1.05	0.17
Soluble Potash, STPB Oxalate .....	958.02	050.00	12	61.28	0.33	0.08	11	61.26	0.33	0.05
Soluble Potash, STPB Citrate .....	969.04	050.10	2	61.23	0.85	0.29	2	61.23	0.85	0.29
Soluble Potash, AA (Oxalate) .....		050.30	3	61.43	1.23	0.73	3	61.43	1.23	0.73
Soluble Potash, ICP (Oxalate) .....		050.50	5	60.44	1.03	0.60	5	60.44	1.03	0.60

- Pass 1 Results for 71 Labs - - Pass 2 Results for 70 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Soluble Potash, ICP (Citrate) .....		050.51	7	61.34	1.35	0.27	7	61.34	1.35	0.27
Soluble Potash, Flame (Oxalate) .....	983.02(a)	050.60	4	60.78	0.28	0.31	4	60.78	0.28	0.31
Soluble Potash, Flame (Citrate) .....	983.02(b)	050.61	6	62.60	1.06	0.62	6	62.60	1.06	0.62
Soluble Potash, Other .....		050.99	19	60.83	1.22	0.69	18	60.87	1.20	0.57
Method Group 050.XX PCT			60	61.10	1.19	0.46	56	61.11	1.17	0.34
Free Water, Vacuum Oven .....	965.08B	060.00	9	1.87	1.41	0.04	9	1.87	1.41	0.04
Free Water, Karl Fischer .....	972.01	060.20	1	0.40	0.01	0.02	1	0.40	0.01	0.02
Free Water, Other .....		060.99	1	0.06	0.01	0.02	1	0.06	0.01	0.02
Method Group 060.XX PCT			11	1.57	1.43	0.04	10	1.68	1.45	0.03
Acid Soluble Calcium, AA .....	945.04	101.00	1	0.26	0.01	0.01	1	0.26	0.01	0.01
Acid Soluble Calcium, ICP .....		101.30	6	0.25	0.01	0.01	6	0.25	0.01	0.01
Acid Soluble Calcium, Other .....		101.99	1	0.27	0.02	0.03	1	0.27	0.02	0.03
Method Group 101.XX PCT			8	0.25	0.01	0.01	8	0.25	0.01	0.01
Acid Soluble Magnesium, AA .....	984.01	121.00	1	1.05	0.06	0.09	1	1.05	0.06	0.09
Acid Soluble Magnesium, ICP .....		121.30	10	0.97	0.17	0.02	9	0.96	0.17	0.02
Acid Soluble Magnesium, Other .....		121.99	1	0.99	0.01	0.02	1	0.99	0.01	0.02
Method Group 121.XX PCT			12	0.98	0.16	0.03	12	0.98	0.16	0.03
Sulfur, Gravimetric .....	980.02b	144.02	1	1.30	0.00	0.00	1	1.30	0.00	0.00
Sulfur, Spectrometric .....		144.70	1	1.22	0.01	0.01	1	1.22	0.01	0.01
Sulfur, Other .....		144.99	7	1.29	0.05	0.02	6	1.28	0.05	0.01
Method Group 144.XX PCT			9	1.28	0.05	0.02	8	1.27	0.05	0.01
Arsenic, Atomic Absorption .....		151.00	1	21.05	0.07	0.10	1	21.05	0.07	0.10
Arsenic, ICP .....		151.30	10	19.12	2.75	0.66	10	19.12	2.75	0.66
Arsenic, Other .....		151.99	1	17.40	0.00	0.00	1	17.40	0.00	0.00
Method Group 151.XX PPM			12	19.14	2.61	0.56	11	19.64	2.06	0.43
Acid Soluble Boron, Other .....		165.99	4	0.014	0.014	0.002	3	0.006	0.003	0.000
Water Soluble Boron, Other .....		171.99	1	5.500	0.707	1.000	1	5.500	0.707	1.000
Cadmium, Atomic Absorption .....		181.00	1	3.65	0.07	0.10	1	3.65	0.07	0.10
Cadmium, ICP .....		181.30	12	3.51	0.44	0.16	11	3.49	0.43	0.10
Cadmium, Other .....		181.99	1	3.03	0.01	0.02	1	3.03	0.01	0.02
Method Group 181.XX PPM			14	3.49	0.43	0.15	13	3.47	0.42	0.09
Chromium, Atomic Absorption .....		191.00	1	118.52	3.90	5.51	1	118.52	3.90	5.51
Chromium, ICP .....		191.30	9	121.77	5.76	1.60	9	121.77	5.76	1.60
Chromium, Other .....		191.99	1	117.50	0.71	1.00	1	117.50	0.71	1.00
Method Group 191.XX PPM			11	121.09	5.47	1.90	11	121.09	5.47	1.90
Acid Soluble Cobalt, ICP .....	965.11	202.30	10	5.31	0.81	0.36	10	5.31	0.81	0.36
Acid Soluble Cobalt, Other .....		202.99	1	4.78	0.01	0.02	1	4.78	0.01	0.02
Method Group 202.XX PPM			11	5.26	0.79	0.33	11	5.26	0.79	0.33
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	0.0003	0.0002	0.0002	2	0.0003	0.0002	0.0002

- Pass 1 Results for 71 Labs - - Pass 2 Results for 70 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Acid Soluble Copper, ICP .....		221.30	7	0.0003	0.0004	0.0000	6	0.0003	0.0005	0.0000
Acid Soluble Copper, Other .....		221.99	2	0.0000	0.0001	0.0000	2	0.0000	0.0001	0.0000
Method Group 221.XX PCT			11	0.0002	0.0004	0.0000	10	0.0002	0.0004	0.0000
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	1	1.62	0.03	0.04	1	1.62	0.03	0.04
Acid Soluble Iron, ICP .....		241.30	9	1.61	0.18	0.03	9	1.61	0.18	0.03
Acid Soluble Iron, Other .....		241.99	1	1.49	0.07	0.11	1	1.49	0.07	0.11
Method Group 241.XX PCT			11	1.60	0.16	0.03	11	1.60	0.16	0.03
Lead, Atomic Absorption .....		251.00	1	0.90	0.14	0.20	1	0.90	0.14	0.20
Lead, ICP .....		251.30	6	3.11	2.17	0.43	6	3.11	2.17	0.43
Lead, Other .....		251.99	1	1.63	0.01	0.02	1	1.63	0.01	0.02
Method Group 251.XX PPM			8	2.65	2.04	0.35	8	2.65	2.04	0.35
Acid Soluble Manganese, AA .....	972.02b	261.11	1	0.029	0.001	0.001	1	0.029	0.001	0.001
Acid Soluble Manganese, ICP .....	972.02a	261.30	8	0.030	0.001	0.000	8	0.030	0.001	0.000
Acid Soluble Manganese, Other .....		261.99	1	0.031	0.000	0.000	1	0.031	0.000	0.000
Method Group 261.XX PCT			10	0.030	0.001	0.001	10	0.030	0.001	0.001
Mercury, ICP .....		281.30	1	2.68	0.12	0.17	1	2.68	0.12	0.17
Mercury, Other .....		281.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 281.XX PPM			2	1.34	1.55	0.08	2	1.34	1.55	0.08
Molybdenum, ICP .....		289.30	11	14.14	0.66	0.51	10	14.05	0.56	0.38
Molybdenum, Other .....		289.99	1	14.65	0.07	0.10	1	14.65	0.07	0.10
Method Group 289.XX PPM			12	14.18	0.65	0.47	11	14.11	0.56	0.35
Nickel, Atomic Absorption .....		291.00	2	19.32	1.57	1.32	2	19.32	1.57	1.32
Nickel, ICP .....		291.30	13	21.29	2.26	0.78	12	21.18	2.26	0.55
Nickel, Other .....		291.99	1	20.40	0.00	0.00	1	20.40	0.00	0.00
Method Group 291.XX PPM			16	20.99	2.19	0.80	15	20.88	2.18	0.61
Selenium, ICP .....		301.30	1	2.00	0.00	0.00	1	2.00	0.00	0.00
Selenium, Other .....		301.99	1	0.07	0.00	0.00	1	0.07	0.00	0.00
Method Group 301.XX PPM			2	1.03	1.11	0.00	2	1.03	1.11	0.00
Sodium, Other .....		311.99	6	0.12	0.06	0.01	6	0.12	0.06	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	3	0.005	0.001	0.000	3	0.005	0.001	0.000
Acid Soluble Zinc, ICP .....		321.30	14	0.005	0.001	0.000	12	0.005	0.001	0.000
Acid Soluble Zinc, Other .....		321.99	2	0.005	0.000	0.000	2	0.005	0.000	0.000
Method Group 321.XX PCT			19	0.005	0.001	0.000	16	0.005	0.001	0.000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index		
Meth: 001.10 PCT			Meth: 001.XX PCT			Meth: 010.60 PCT			Meth: 010.60 PCT			Meth: 010.XX PCT				
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>				
<u>MgO Distillation</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>				
405	11.14	.99	230	6.46 s	-11.60	029	11.25	.97	307	11.02 R	-1.61	090	11.16	.49		
416	11.06	.79	Meth: 009.10 PCT			037	11.25	.91	488	10.85 R	-1.74	025	11.17	.49		
481	10.90	.39	Ammon & Nitrate N			351	11.25	.88	073	10.66	-2.15	460	11.16	.47		
444	10.78	.09	<u>Devarda</u>			049	11.23	.82	489	10.52	-2.87	405	11.16	.44		
Avg	10.75		258	11.30	.83	368	11.21	.75	450	10.25 s	-4.27	105	11.15	.42		
309	10.62	-.38	497	11.22	.46	485	11.21	.70	Meth: 010.99 PCT			041	11.15 X	.42		
007	10.00	-1.90	Avg	11.12		131	11.21	.69	<u>Total Nitrogen</u>			354	11.15	.40		
230	6.46 S	-10.86	444	10.84	-1.26	377	11.20	.69	Other			247	11.13	.30		
Meth: 001.99 PCT			Meth: 010.11 PCT			040	11.20	.64	300			11.15	.84	211	11.11	.19
<u>Ammoniacal Nitrogen</u>			<u>Total Nitrogen</u>			325	11.10	.53	460			11.16	.36	136	11.10	.17
<u>Other</u>			<u>Modified Comprehensi</u>			007	11.15	.46	Avg			11.13		Avg	11.08	
027	18.42 S	22.22	470	11.75 S	9.82	025	11.17	.46	420			11.07	-1.29	105	11.08	-.03
169	11.25	.79	309	11.61 S	8.68	405	11.16	.41	Meth: 010.XX PCT			389	11.08	-.03		
300	11.12	.42	474	11.22	1.32	041	11.15 X	.39	<u>Total Nitrogen</u>			035	11.07	-.06		
409	11.12	.42	090	11.16	.58	105	11.15	.39	102			11.57 s	4.08	177	11.05	-.18
371	11.07	.25	Avg	11.14		354	11.15	.38	470			11.75 s	3.65	185	11.04	-.22
Avg	10.98		211	11.11	-.51	247	11.13	.28	309			11.61 s	3.23	360	11.04	-.25
420	10.53 R	-1.46	105	11.08	-1.08	136	11.10	.16	402			11.48 R	2.43	409	11.03	-.28
487	10.36	-1.86	114	10.81 R	-5.83	Avg	11.08		483			11.45	2.02	157	11.05	-.31
Meth: 001.XX PCT			Meth: 010.12 PCT			389	11.08	-.03	055			11.43	1.94	451	11.01	-.38
<u>Ammoniacal Nitrogen</u>			<u>Total Nitrogen</u>			035	11.07	-.06	230			11.40	1.85	402	11.00	-.49
027	18.42 s	19.94	<u>Salicylic</u>			177	11.05	-.18	023			11.31 R	1.57	483	10.99	-.49
169	11.25	1.03	185	11.04	.84	360	11.04	-.24	029			11.25	1.03	043	10.98	-.52
405	11.14	.75	Avg	10.98		409	11.03	-.27	037			11.25	.97	420	11.07	-.63
300	11.12	.70	481	10.93	-.89	157	11.05	-.29	351			11.25	.93	231	10.95	-.72
409	11.12	.70	Meth: 010.60 PCT			451	11.01	-.37	049			11.23	.87	482	10.95	-.74
371	11.07	.55	<u>Total Nitrogen</u>			233	11.00	-.47	474			11.22	.80	481	10.93	-.80
416	11.06	.55	<u>Combustion</u>			444	10.99	-.47	368			11.21	.79	324	11.05	-.83
481	10.90	.16	102	11.57 s	3.85	043	10.98	-.50	485			11.21	.74	072	10.93	-.96
Avg	10.86		402	11.48 R	2.29	231	10.95	-.69	131			11.21	.73	292	10.85	-1.23
444	10.78	-.20	483	11.45	1.90	482	10.95	-.70	377			11.20	.73	406	10.82	-1.40
309	10.62	-.65	055	11.43	1.83	324	11.05	-.79	040			11.20	.68	095	10.82	-1.46
420	10.53 R	-.98	230	11.40	1.75	072	10.93	-.91	300			11.15	.60	009	10.80	-1.50
487	10.36	-1.30	023	11.31 R	1.48	292	10.85	-1.17	325			11.10	.56	114	10.81	-1.63
007	10.00	-2.25	Meth: 010.60 PCT			406	10.82	-1.33	007			11.15	.49	307	11.02 R	-1.70
Meth: 010.60 PCT			<u>Combustion</u>			095	10.82	-1.39	Meth: 010.60 PCT			Meth: 010.60 PCT				
<u>Total Nitrogen</u>			<u>Combustion</u>			009	10.80	-1.43	<u>Total Nitrogen</u>			<u>Total Nitrogen</u>				
<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>				

\* X=Excluded from lab performance    S/s=Screened Outlier    R=Duplicate Range too large    A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 010.XX PCT</u>			<u>Meth: 020.30 PCT</u>			<u>Meth: 020.XX PCT</u>			<u>Meth: 020.XX PCT</u>			<u>Meth: 040.40 PCT</u>		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>InDir Available Phos</u>		
450	10.25 s	-4.51	<u>Alka Quimociac</u>			309	88.52 s	69.13	230	51.35 R	-2.18	<u>Automated</u>		
			095	51.12	.71	487	54.21 s	5.00	444	50.41	-2.25	409	51.56	.87
						368	53.61 s	3.87	300	50.14	-2.62	Avg	50.63	
<u>Meth: 020.10 PCT</u>			<u>Meth: 020.40 PCT</u>			<u>Meth: 020.XX PCT</u>			<u>Meth: 020.XX PCT</u>			<u>Meth: 040.50 PCT</u>		
<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>InDir Available Phos</u>		
<u>Grav Quimociac</u>			<u>Automated</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>ICP</u>		
322	52.17	1.15	409	51.65	.70	451	52.38	1.58	307	47.11 s	-8.52	072	50.43	.71
211	52.07	.78	247	51.57	.60	322	52.17	1.19	<u>Meth: 030.20 PCT</u>			Avg	50.43	
416	52.05	.69	470	51.46	.37	406	52.15	1.14	<u>Insoluble Phosphate</u>			488	47.45 S	-53.57
114	51.96	.43	105	51.37	.25	389	52.10	1.07	<u>Spectrometric</u>					
Avg	51.86		Avg	51.24		211	52.07	1.00	405	0.19	.69			
090	51.76	-.41	300	50.14	-1.86	416	52.05	.95	Avg	0.18				
105	51.53	-1.36	035	50.08 s	-3.37	114	51.96	.79	474	0.16	-1.01			
470	51.49	-1.37				258	51.65	.69	<u>Meth: 030.40 PCT</u>			<u>Meth: 040.99 PCT</u>		
157	51.20 R	-2.53	<u>Meth: 020.50 PCT</u>			481	51.70	.63	<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>		
444	50.41 s	-5.54	<u>Total Phosphate</u>			489	51.85	.59	<u>Automated</u>			<u>Other</u>		
			<u>ICP</u>			090	51.76	.42	409	0.10	.71	247	51.48	-.71
			368	53.61 S	2.98	474	51.70	.33	<u>Meth: 030.99 PCT</u>			<u>Meth: 040.XX PCT</u>		
			451	52.38	1.28	247	51.57	.28	<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>		
			389	52.10	.91	292	51.68	.26	<u>Other</u>			497	51.70	.83
			474	51.70	.35	409	51.65	.22	247	0.08	.71	409	51.56	.61
			Avg	51.45		169	51.57	.12	<u>Meth: 030.XX PCT</u>			474	51.54	.59
			025	51.00	-.75	405	51.57	.07	<u>Insoluble Phosphate</u>			247	51.48	.54
			483	51.22	-.86	Avg	51.54		<u>Other</u>			405	51.38	.37
			402	50.82	-.88	460	51.53	-.09	<u>Meth: 030.XX PCT</u>			Avg	51.11	
			482	50.95	-1.36	470	51.49	-.10	<u>Insoluble Phosphate</u>			072	50.43	-.94
			307	47.11 s	-6.17	470	51.46	-.15	405	0.19	1.18	300	49.71	-1.94
						371	51.43	-.20	474	0.16	.73	488	47.45 s	-5.11
						105	51.53	-.31	Avg	0.13				
						105	51.37	-.34	409	0.10	-.78			
			<u>Meth: 020.99 PCT</u>			324	51.30	-.58	247	0.08	-.99	<u>Meth: 041.10 PCT</u>		
			<u>Total Phosphate</u>			231	51.16	-.71	<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>		
			<u>Other</u>			157	51.20	-.73	<u>Spectrometri</u>			<u>Grav Quimociac</u>		
			487	54.21 S	42.22	420	51.13	-.79	409	0.10	-.78	009	52.05	2.05
			460	51.53	.71	095	51.12	-.81	247	0.08	-.99	105	51.55 R	.93
			Avg	51.53		450	51.49 R	-1.12	<u>Meth: 040.20 PCT</u>			177	51.59	.78
						025	51.00	-1.15	<u>InDir Available Phos</u>			102	51.60	.78
						483	51.22	-1.23	<u>Spectrometri</u>			040	51.35	.16
						402	50.82	-1.35	497	51.70	1.22	041	51.37 X	.16
						482	50.95 R	-1.93	474	51.54	.24			
									Avg	51.54				
									405	51.38	-.98			

\* X=Excluded from lab performance    S/s=Screened Outlier    R=Duplicate Range too large    A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 041.10 PCT			Meth: 041.60 PCT			Meth: 041.XX PCT			Meth: 048.XX PCT			Meth: 050.30 PCT		
Dir Available Phosph			Dir Available Phosph			Dir Available Phosph			Water Soluble Phosph			Soluble Potash		
<u>Grav Quimociac</u>			<u>EDTA Extract</u>			<u>Grav Quimociac</u>			<u>AA (Oxalate)</u>					
Avg	51.32		136	51.33	-.23	072	51.21	-.36	405	45.89	-.08	040	60.55	-1.05
131	51.24	-.24	043	51.32	-.27	231	51.14	-.48	247	45.96	-.12			
072	51.21	-.40	177	51.27	-.43	360	51.24	-.52	474	45.49	-.45			
055	51.03	-.83	231	51.14	-.75	023	51.10	-.58	444	44.74	-1.17	Meth: 050.50 PCT		
049	51.01	-.93	037	50.80	-1.92	055	51.03	-.75	Meth: 050.00 PCT			Soluble Potash		
185	50.79	-1.50	024	50.33 s	-3.36	043	51.03	-.76	Soluble Potash			<u>ICP (Oxalate)</u>		
						049	51.01	-.84	STPB Oxalate			406	65.07 S	4.50
						131	50.80	-1.33	114	65.79 s	13.84	324	61.65	1.28
Meth: 041.40 PCT			Meth: 041.99 PCT			185	50.79	-1.35	090	61.68	1.30	055	60.93	.48
Dir Available Phosph			Dir Available Phosph			037	50.80	-1.41	211	61.61	1.06	420	60.91	.48
<u>Automated</u>			<u>Other</u>			024	50.33	-2.54	072	61.51 R	.99	Avg	60.44	
095	51.74	.87	105	51.35	.74	230	50.40 R	-2.55	405	61.58	.95	354	59.40	-1.04
Avg	51.27		Avg	50.87		368	49.86 s	-3.80	231	61.53	.81	157	59.35	-1.15
131	50.80	-.86	230	50.40	-.97	027	50.24 s	-3.84	416	61.41	.45	488	57.45 S	-2.99
027	50.24 S	-2.71				055	49.44 s	-4.78	258	61.32	.17	292	56.60 S	-3.73
			Meth: 041.XX PCT			Meth: 048.10 PCT			Avg			Meth: 050.51 PCT		
Dir Available Phosph			Dir Available Phosph			Water Soluble Phosph			489			Soluble Potash		
<u>ICP</u>			<u>ICP</u>			<u>Grav Quimociac</u>			073			<u>ICP (Citrate)</u>		
354	52.03	1.31	354	52.03 R	1.99	444	44.74	.71	049	60.96	-.95	483	63.54	1.64
377	51.90	.91	029	51.88 R	1.91				497	60.84	-1.30	043	62.56	.91
325	51.85	.70	009	52.05	1.84	Meth: 048.20 PCT			470	60.70	-1.72	377	61.66	.25
Avg	51.52		377	51.90	1.54	Water Soluble Phosph			102	59.40 s	-5.70	023	61.49	.22
360	51.24	-.73	325	51.85	1.34	<u>Spectrometric</u>			230	58.55 s	-8.36	Avg	61.34	
023	51.10	-.91	073	51.80	1.21	420	47.76	1.28	Meth: 050.10 PCT			389	60.05	-.96
043	51.03	-1.06	095	51.74	1.07	Avg	46.38		Soluble Potash			072	60.03	-.97
368	49.86 S	-3.60	351	51.71	.98	405	45.89	-.45	STPB Citrate			485	60.03	-1.00
055	49.44 S	-4.43	105	51.55	.83	474	45.49	-.82	041	61.95 X	.89	Meth: 050.60 PCT		
			485	51.60	.75	Meth: 048.99 PCT			Avg			Soluble Potash		
			177	51.59	.70	Water Soluble Phosph			444			<u>Flame (Oxalate)</u>		
			102	51.60	.70	<u>Other</u>			Meth: 050.30 PCT			470		
			105	51.37	.25	247			Soluble Potash			351		
			136	51.33	.15	Meth: 048.XX PCT			AA (Oxalate)			Avg		
			040	51.35	.14	Water Soluble Phosph			185			309		
			041	51.37 X	.14	<u>Water Soluble Phosph</u>			420			169		
			105	51.35	.06	420			47.76			60.58		
			Avg	51.32		Avg			45.96			-1.64		
			043	51.32	-.17	Meth: 050.10 PCT			136					
			131	51.24	-.22	Soluble Potash			60.95					
			177	51.27	-.27	STPB Citrate								
						041								
						Avg								
						444								
						Meth: 050.30 PCT								
						Soluble Potash								
						AA (Oxalate)								
						185								
						Avg								
						136								
						60.95								
						-.41								

\* X=Excluded from lab performance    S/s=Screened Outlier    R=Duplicate Range too large    A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index				
Meth: 050.61 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 060.20 PCT			Meth: 101.30 PCT						
<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>						
<u>Flame (Citrates)</u>									<u>Karl Fischer</u>			<u>ICP</u>						
029	63.76	1.13	029	63.76	2.27	470	60.70	-.35	371	0.40	-.71	354	0.23	-1.54				
035	63.68	1.09	035	63.68	2.21	027	60.70	-.38										
095	62.68	.87	483	63.54	2.08	460	61.10	-.51										
Avg	62.60		095	62.68 R	1.55	444	60.52	-.51	Meth: 060.99 PCT			Meth: 101.99 PCT						
024	62.50	-.10	185	62.80	1.44	487	60.98	-.58	<u>Free Water</u>			<u>Acid Soluble Calcium</u>						
037	61.64	-.92	043	62.56	1.23	169	60.58	-.58	<u>Other</u>			<u>Other</u>						
131	61.34	-1.19	024	62.50	1.18	042	60.37	-.66	481	0.06	.71	105	0.27	.71				
			025	62.45	1.16	482	60.20	-.82										
			041	61.95 X	.74	371	60.15	-.91	Meth: 060.XX PCT			Meth: 101.XX PCT						
Meth: 050.99 PCT			324	61.65	.66	389	60.05	-.91	<u>Free Water</u>			<u>Acid Soluble Calcium</u>						
<u>Soluble Potash</u>			043	61.64	.49	072	60.03	-.93	105	3.25	1.08	035	0.33 s	6.66				
<u>Other</u>			090	61.68	.49	040	60.55 R	-.94	007	3.14	1.00	105	0.27	1.29				
325	63.85	2.53	377	61.66	.47	485	60.03	-.97	247	3.09	.97	482	0.27	.98				
025	62.45	1.34	037	61.64	.46	307	60.35 R	-.99	474	3.03	.92	105	0.26	.72				
043	61.64	.67	211	61.61	.42	368	59.63	-1.30	416	2.98	.89	389	0.26	.41				
487	60.98	.56	405	61.58	.39	102	59.40	-1.46	Avg	1.68		Avg	0.25					
460	61.10	.54	023	61.49	.39	450	60.14 R	-1.47	497	0.49 R	-.82	474	0.25	-.13				
451	61.40	.46	072	61.51	.38	354	59.40	-1.48	371	0.40	-.88	041	0.25 X	-.71				
481	61.36	.42	231	61.53	.35	157	59.35	-1.56	096	0.37	-.91	102	0.24	-.90				
177	61.29	.35	451	61.40	.26	322	59.27	-1.57	090	0.28	-.97	354	0.23	-1.68				
247	61.28	.35	416	61.41	.25	402	58.83	-1.96	405	0.24	-.99							
Avg	60.87		481	61.36	.23	230	58.55	-2.21	481	0.06	-1.11	Meth: 121.00 PCT						
360	60.76	-.12	131	61.34	.21	488	57.45 s	-3.19	Meth: 101.00 PCT			<u>Acid Soluble Magnesi</u>						
027	60.70	-.18	258	61.32	.18	292	56.60 s	-3.86	<u>AA</u>			<u>AA</u>						
042	60.37	-.45	177	61.29	.16	Meth: 060.00 PCT			105			0.26	.71	Meth: 121.30 PCT				
482	60.20	-.61	247	61.28	.14	<u>Free Water</u>			<u>AA</u>			<u>Acid Soluble Magnesi</u>						
371	60.15	-.70	489	61.19	.06	<u>Vacuum Oven</u>			105			0.26	.71	<u>ICP</u>				
307	60.35	-.85	Avg	61.11		105	3.25	.97	Meth: 101.30 PCT			483			1.17	1.17		
368	59.63	-1.07	073	61.10	-.05	007	3.14	.90	<u>Acid Soluble Calcium</u>			035			1.13	.96		
322	59.27	-1.33	470	60.96	-.14	247	3.09	.86	<u>ICP</u>			482			1.09	.71		
450	60.14 R	-1.33	049	60.96	-.14	474	3.03	.82	035			0.33 s	7.28	041			1.06 R	.61
402	58.83	-1.70	055	60.93	-.19	416	2.98	.78	482			0.27	1.30	389			1.03	.36
			136	60.95	-.19	Avg	1.87		041			0.25 X	.75	247			1.02	.34
Meth: 050.XX PCT			420	60.91	-.23	497	0.49	-.98	474			0.25	.14	Avg			0.96	
<u>Soluble Potash</u>			497	60.84	-.23	096	0.37	-1.07	Avg			0.25		102			0.94	-.10
114	65.79 s	3.99	351	60.83	-.25	090	0.28	-1.13	102			0.24	-.68	474			0.87	-.56
406	65.07 s	3.39	360	60.76	-.31	405	0.24	-1.16										
325	63.85	2.38	309	60.75	-.33													

\* X=Excluded from lab performance    S/s=Screened Outlier    R=Duplicate Range too large    A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 121.30 PCT Acid Soluble Magnesi ICP			Meth: 144.99 PCT Sulfur Other			Meth: 151.30 PPM Arsenic ICP			Meth: 171.99 PCT Water Soluble Boron Other			Meth: 181.XX PPM Cadmium		
354	0.84	-.73	483	1.34	1.29	041	19.50 X	.17	247	5.500	.71	117	5.45 s	4.73
027	0.59	-2.15	482	1.33 R	1.22	Avg	19.12					482	4.05	1.43
Meth: 121.99 PCT Acid Soluble Magnesi Other			102			300			Meth: 181.00 PPM Cadmium Atomic Absorption			035		
105	0.99	.71	102	1.29	.34	300	18.64	-.18				095	4.00	1.27
Meth: 121.XX PCT Acid Soluble Magnesi Other			Avg			474			Avg			041		
105	0.99	.71	389	1.26	-.53	474	18.55	-.32				481	3.72 R	1.21
Meth: 121.XX PCT Acid Soluble Magnesi Other			035			009			Avg			481		
483	1.17	1.20	035	1.24	-.95	009	13.65	-2.02				136	3.65	.45
035	1.13	.97	247	1.23	-1.16	Meth: 151.99 PPM Arsenic Other			136			037		
482	1.09	.68	247	1.23	-1.16	409	17.40	.00				300	3.65	-.71
041	1.06 X	.58	354	1.01 s	-5.72	Meth: 181.30 PPM Cadmium ICP			300			102		
105	1.05	.53	Meth: 144.XX PCT Sulfur			117			Meth: 181.30 PPM Cadmium ICP			Avg		
389	1.03	.29	483	1.34	1.41	117	5.45 s	4.53				230	3.41	-.18
247	1.02	.27	482	1.33 R	1.32	482	4.05	1.34				474	3.31	-.39
105	0.99	.09	027	1.33	1.22	035	4.02	1.23				300	3.07	-.95
Avg	0.98		292	1.30	.56	095	4.00	1.17				409	3.03	-1.04
102	0.94	-.23	102	1.29	.43	037	4.02	1.23				368	2.93	-1.29
474	0.87	-.74	Avg	1.27		095	4.00	1.17				009	2.80	-1.61
354	0.84	-.94	389	1.26	-.41	041	3.72 R	1.14				300	1.50 s	-4.69
027	0.59	-2.53	035	1.24	-.83	230	21.05	.68				487	0.40 s	-7.31
Meth: 144.02 PCT Sulfur Gravimetric			247			20.05			Avg			Meth: 191.00 PPM Chromium Atomic Absorption		
292	1.30	.00	247	1.23	-1.04	102	20.05	.20				481	118.52	.71
Meth: 144.70 PCT Sulfur Spectrometric			474			19.64			230			Meth: 191.30 PPM Chromium ICP		
474	1.22	.71	474	1.22	-1.26	041	19.50 X	-.16				035	131.00 s	2.36
Meth: 151.00 PPM Arsenic Atomic Absorption			354			18.64			474			247		
136	21.05	.71	409	17.40	-1.09	300	18.64	-.49				247	134.50	2.22
Meth: 151.30 PPM Arsenic ICP			474			18.55			300			482		
095	23.00	1.41	409	17.40	-1.09	474	18.55	-.61				368	124.00	.40
368	21.45	.85	481	15.40	-2.05	409	17.40	-1.09				102	122.96	.21
037	20.62	.56	009	13.65 R	-2.94	481	15.40	-2.05				Avg	121.77	
230	20.40	.55	Meth: 165.99 PCT Acid Soluble Boron Other			009			Meth: 181.99 PPM Cadmium Other			037		
102	20.05	.34	354	0.036 R	9.59	009	0.005	-.40				474	118.00	-.65
Meth: 165.99 PCT Acid Soluble Boron Other			482			0.010			Avg			230		
354	0.036 R	9.59	482	0.010	1.26	009	0.005	-.40				041	116.50 X	-.95
Meth: 181.99 PPM Cadmium Other			Avg			0.006			487			009		
409	3.03	-.71	037	20.62	.56	487	0.40 S	-185.97				116.20	-1.07	
487	0.40 S	-185.97	230	20.40	.55	Meth: 181.99 PPM Cadmium Other			Avg			Avg		
Meth: 181.99 PPM Cadmium Other			102			0.003			Avg			Avg		
409	3.03	-.71	102	20.05	.34	354	0.036 R	9.59				121.77		
487	0.40 S	-185.97	Meth: 151.00 PPM Arsenic Atomic Absorption			482			Avg			121.30		
Meth: 181.99 PPM Cadmium Other			095			0.010			Avg			117.50		
409	3.03	-.71	095	23.00	1.41	482	0.010	1.26				116.50 X	-.95	
487	0.40 S	-185.97	368	21.45	.85	Avg	0.006					116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			037			0.005			Avg			Avg		
409	3.03	-.71	037	20.62	.56	009	0.005	-.40				116.20	-1.07	
487	0.40 S	-185.97	230	20.40	.55	300	0.003	-.86				116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			102			0.003			Avg			Avg		
409	3.03	-.71	102	20.05	.34	300	0.003	-.86				116.20	-1.07	
487	0.40 S	-185.97	Meth: 151.00 PPM Arsenic Atomic Absorption			482			Avg			Avg		
Meth: 181.99 PPM Cadmium Other			095			0.010			Avg			Avg		
409	3.03	-.71	095	23.00	1.41	482	0.010	1.26				116.20	-1.07	
487	0.40 S	-185.97	368	21.45	.85	Avg	0.006					116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			037			0.005			Avg			Avg		
409	3.03	-.71	037	20.62	.56	009	0.005	-.40				116.20	-1.07	
487	0.40 S	-185.97	230	20.40	.55	300	0.003	-.86				116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			102			0.003			Avg			Avg		
409	3.03	-.71	102	20.05	.34	300	0.003	-.86				116.20	-1.07	
487	0.40 S	-185.97	Meth: 151.00 PPM Arsenic Atomic Absorption			482			Avg			Avg		
Meth: 181.99 PPM Cadmium Other			095			0.010			Avg			Avg		
409	3.03	-.71	095	23.00	1.41	482	0.010	1.26				116.20	-1.07	
487	0.40 S	-185.97	368	21.45	.85	Avg	0.006					116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			037			0.005			Avg			Avg		
409	3.03	-.71	037	20.62	.56	009	0.005	-.40				116.20	-1.07	
487	0.40 S	-185.97	230	20.40	.55	300	0.003	-.86				116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			102			0.003			Avg			Avg		
409	3.03	-.71	102	20.05	.34	300	0.003	-.86				116.20	-1.07	
487	0.40 S	-185.97	Meth: 151.00 PPM Arsenic Atomic Absorption			482			Avg			Avg		
Meth: 181.99 PPM Cadmium Other			095			0.010			Avg			Avg		
409	3.03	-.71	095	23.00	1.41	482	0.010	1.26				116.20	-1.07	
487	0.40 S	-185.97	368	21.45	.85	Avg	0.006					116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			037			0.005			Avg			Avg		
409	3.03	-.71	037	20.62	.56	009	0.005	-.40				116.20	-1.07	
487	0.40 S	-185.97	230	20.40	.55	300	0.003	-.86				116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			102			0.003			Avg			Avg		
409	3.03	-.71	102	20.05	.34	300	0.003	-.86				116.20	-1.07	
487	0.40 S	-185.97	Meth: 151.00 PPM Arsenic Atomic Absorption			482			Avg			Avg		
Meth: 181.99 PPM Cadmium Other			095			0.010			Avg			Avg		
409	3.03	-.71	095	23.00	1.41	482	0.010	1.26				116.20	-1.07	
487	0.40 S	-185.97	368	21.45	.85	Avg	0.006					116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			037			0.005			Avg			Avg		
409	3.03	-.71	037	20.62	.56	009	0.005	-.40				116.20	-1.07	
487	0.40 S	-185.97	230	20.40	.55	300	0.003	-.86				116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			102			0.003			Avg			Avg		
409	3.03	-.71	102	20.05	.34	300	0.003	-.86				116.20	-1.07	
487	0.40 S	-185.97	Meth: 151.00 PPM Arsenic Atomic Absorption			482			Avg			Avg		
Meth: 181.99 PPM Cadmium Other			095			0.010			Avg			Avg		
409	3.03	-.71	095	23.00	1.41	482	0.010	1.26				116.20	-1.07	
487	0.40 S	-185.97	368	21.45	.85	Avg	0.006					116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			037			0.005			Avg			Avg		
409	3.03	-.71	037	20.62	.56	009	0.005	-.40				116.20	-1.07	
487	0.40 S	-185.97	230	20.40	.55	300	0.003	-.86				116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			102			0.003			Avg			Avg		
409	3.03	-.71	102	20.05	.34	300	0.003	-.86				116.20	-1.07	
487	0.40 S	-185.97	Meth: 151.00 PPM Arsenic Atomic Absorption			482			Avg			Avg		
Meth: 181.99 PPM Cadmium Other			095			0.010			Avg			Avg		
409	3.03	-.71	095	23.00	1.41	482	0.010	1.26				116.20	-1.07	
487	0.40 S	-185.97	368	21.45	.85	Avg	0.006					116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			037			0.005			Avg			Avg		
409	3.03	-.71	037	20.62	.56	009	0.005	-.40				116.20	-1.07	
487	0.40 S	-185.97	230	20.40	.55	300	0.003	-.86				116.20	-1.07	
Meth: 181.99 PPM Cadmium Other			102			0.003			Avg			Avg		
409	3.03	-.71	102	20.05	.34	300	0.003	-.86				116.20	-1.07	
487	0.40 S	-185.9												





Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	
Meth: 261.30 PCT Acid Soluble Manganese <u>ICP</u>			Meth: 281.99 PPM Mercury <u>Other</u>			Meth: 289.XX PPM Molybdenum			Meth: 291.30 PPM Nickel <u>ICP</u>			Meth: 301.99 PPM Selenium <u>Other</u>			
041	0.030 X	.42	300	0.00	.00	481	72.44 s	104.65	482	20.20	-.44	485	0.07	.71	
482	0.030	.42				035	15.00 R	2.27	474	19.50	-.78				
Avg	0.030					247	15.00	1.60	300	15.71	-2.42				
247	0.030	-.25	Meth: 281.XX PPM Mercury <u>Mercury</u>			368	14.55	1.01				Meth: 301.XX PPM Selenium <u>Selenium</u>			
420	0.029	-.42	444	2.68	.87	409	14.65	.98				095	2.00	.87	
102	0.029	-.94	Avg	1.34		433	14.46	.63				Avg	1.03		
009	0.028	-1.74	300	0.00	-.87	Avg	14.11					485	0.07	-.87	
354	0.023 s	-5.91				037	14.06	-.10	Meth: 291.99 PPM Nickel <u>Other</u>						
			Meth: 289.00 PPM Molybdenum <u>Atomic Absorption</u>			095	14.00	-.19	409	20.40	.00				
			481	72.44 S	.00	102	13.67	-.80				Meth: 311.99 PCT Sodium <u>Other</u>			
						230	13.95	-.85	Meth: 291.XX PPM Nickel <u>Nickel</u>			354	0.19	1.14	
			Meth: 289.30 PPM Molybdenum <u>ICP</u>			474	13.60	-.93	444	29.98 s	4.18	035	0.16	.73	
			035	15.00 R	2.34	009	13.85	-1.25	117	25.00	1.89	102	0.13	.14	
			247	15.00	1.70	041	13.40 X	-1.32	035	22.60 R	1.14	482	0.13	.09	
			368	14.55	1.09	300	11.11 s	-5.38	247	23.00	1.08	Avg	0.12		
			433	14.46	.73				095	23.00	.97	474	0.12	-.07	
			037	14.06	.04	Meth: 291.00 PPM Nickel <u>Atomic Absorption</u>			368	22.00	.52	300	0.02	-1.90	
			Avg	14.05		136	20.50	.82	041	21.70 X	.49				
			095	14.00	-.10	Avg	19.32		037	21.72	.39				
			102	13.67	-.71	481	18.14	-.91	102	21.02	.07				
			230	13.95	-.83				Avg	20.88		Meth: 321.00 PCT Acid Soluble Zinc <u>Atomic Absorption</u>			
			474	13.60	-.83	Meth: 291.30 PPM Nickel <u>ICP</u>			009	20.75	-.13	481	0.007	1.27	
			009	13.85	-1.22	444	29.98 s	3.89	409	20.40	-.22	Avg	0.005		
			041	13.40 X	-1.23	117	25.00	1.69	230	20.60	-.22	105	0.005	-.55	
			300	11.11 s	-5.29	035	22.60 R	1.01	482	20.20	-.32	043	0.005	-.76	
						247	23.00	.92	474	19.50	-.68				
			Meth: 289.99 PPM Molybdenum <u>Other</u>			095	23.00	.80	481	18.14	-1.32				
			409	14.65	.71	041	21.70 X	.39	300	15.71	-2.38	Meth: 321.30 PCT Acid Soluble Zinc <u>ICP</u>			
						368	22.00	.36				292	0.010 S	5.08	
						037	21.72	.25	Meth: 301.30 PPM Selenium <u>ICP</u>			482	0.010 S	5.08	
						Avg	21.18		095	2.00	.00	300	0.008	2.69	
						102	21.02	-.08				041	0.006 R	.80	
						009	20.75	-.22				035	0.006 R	.73	
						230	20.60	-.31				354	0.006	.66	
												433	0.006	.50	

\* X=Excluded from lab performance    S/s=Screened Outlier    R=Duplicate Range too large    A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab Average\* Index

Meth: 321.30 PCT

Acid Soluble Zinc

ICP	Average*	Index
037	0.005	.26
Avg	0.005	
420	0.005	-.01
102	0.005	-.12
368	0.005	-.12
230	0.005	-.37
095	0.005	-.46
474	0.005	-.53
009	0.004	-.74
444	0.004	-1.52

Meth: 321.99 PCT

Acid Soluble Zinc

Other	Average*	Index
460	0.005	.89
Avg	0.005	
409	0.005	-.84

Meth: 321.XX PCT

Acid Soluble Zinc

	Average*	Index
292	0.010 s	5.32
482	0.010 s	5.32
300	0.008	2.81
481	0.007	1.69
041	0.006 R	.84
035	0.006 R	.76
354	0.006 R	.69
433	0.006	.52
037	0.005	.27
Avg	0.005	
420	0.005	-.02
102	0.005	-.13
368	0.005	-.13
460	0.005	-.22
409	0.005	-.26
105	0.005	-.32
230	0.005	-.39

Lab Average\* Index

Meth: 321.XX PCT

Acid Soluble Zinc

	Average*	Index
095	0.005	-.48
043	0.005	-.51
474	0.005	-.56
009	0.004	-.78
444	0.004	-1.60

Lab Average\* Index

Lab Average\* Index

Lab Average\* Index

\* X=Excluded from lab performance

S/s=Screened Outlier

R=Duplicate Range too large

A=Analysis beyond 3-s limits

## Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.10	7	- 1.55	4.21	0.10	060.00	9	0.00	1.03	0.02
001.99	7	2.98	8.54	0.22	060.XX	11	- 0.07	1.01	0.02
001.XX	14	0.53	6.44	0.15	101.30	7	0.87	2.45	1.56
009.10	3	0.00	1.01	0.40	101.XX	8	0.59	2.14	1.40
009.XX	3	0.00	1.01	0.40	121.30	10	0.06	0.99	0.09
010.11	7	1.70	5.26	1.81	121.XX	11	- 0.02	1.06	0.13
010.12	2	0.00	1.18	0.23	144.99	8	- 0.59	2.27	0.30
010.60	47	0.00	1.23	0.60	144.XX	10	- 0.45	2.06	0.27
010.99	3	0.00	0.52	0.81	151.30	10	0.00	1.01	0.17
010.XX	58	0.11	1.35	0.62	151.XX	12	- 0.24	1.28	0.21
020.10	9	- 0.86	2.05	0.60	165.99	4	2.376	4.839	0.635
020.20	15	5.56	21.73	0.86	165.XX	4	2.376	4.839	0.635
020.40	6	- 0.32	1.23	1.14	181.00	2	- 15.20	21.50	0.50
020.50	9	- 0.34	2.45	0.70	181.30	13	0.39	1.55	0.33
020.99	2	21.10	29.83	1.22	181.99	2	- 92.98	131.50	0.50
020.XX	40	1.64	11.11	0.81	181.XX	16	- 0.24	2.51	0.56
030.20	2	0.00	0.79	0.66	191.30	12	- 0.35	1.57	0.68
030.XX	4	0.00	1.04	0.24	191.XX	14	- 0.29	1.53	0.68
040.20	3	0.00	0.98	0.45	202.30	10	0.00	0.97	0.31
040.40	2	0.00	1.22	0.02	202.XX	11	0.00	0.97	0.31
040.50	2	- 26.34	37.25	6.89	221.00	2	0.0000	0.5428	0.7763
040.XX	8	- 0.63	2.03	0.28	221.30	7	- 0.023	0.9594	0.0251
041.10	11	0.06	0.98	0.26	221.99	3	4182.2	7243.9	0.1098
041.40	3	- 0.63	1.39	1.12	221.XX	11	159.66	529.46	0.1417
041.50	8	- 0.99	2.03	0.42	241.30	10	- 0.50	1.87	0.09
041.60	11	- 0.15	1.45	0.59	241.XX	11	- 0.46	1.91	0.17
041.99	2	0.00	1.05	0.45	251.30	7	1.87	5.03	0.16
041.XX	29	- 0.25	1.48	0.78	251.XX	9	1.57	4.80	0.15
048.20	3	0.00	1.11	0.08	261.30	9	- 0.655	2.177	0.276
048.XX	5	0.00	1.06	0.10	261.XX	10	- 0.667	2.201	0.342
050.00	15	0.04	4.66	0.36	281.XX	2	0.000	1.224	0.039
050.10	2	0.00	1.19	0.21	289.30	12	- 0.30	1.83	0.66
050.30	3	0.00	0.97	0.45	289.XX	14	7.19	28.05	1.82
050.50	8	- 0.27	2.56	0.39	291.00	2	0.00	1.06	0.43
050.51	7	0.00	1.03	0.13	291.30	14	0.32	1.39	0.28
050.60	4	0.00	0.58	0.79	291.XX	17	0.29	1.38	0.28
050.61	6	0.00	0.95	0.40	301.XX	2	0.00	1.22	0.00
050.99	19	- 0.03	0.95	0.41	311.99	6	0.00	1.04	0.14
050.XX	61	- 0.01	1.33	0.33	311.XX	6	0.00	1.04	0.14

## Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
321.00	3	0.000	1.105	0.139					
321.30	16	0.698	1.922	0.258					
321.99	2	0.000	0.970	0.529					
321.XX	20	0.340	1.487	0.248					