

- Pass 1 Results for 74 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	1	0.59	0.04	0.05	1	0.59	0.04	0.05
Ammoniacal Nitrogen, Other		001.99	1	0.70	0.01	0.02	1	0.70	0.01	0.02
Method Group 001.XX PCT			2	0.65	0.06	0.04	2	0.65	0.06	0.04
Nitrate Nitrogen, Other		002.99	1	0.06	0.00	0.00	1	0.06	0.00	0.00
Total Nitrogen, Modified Comprehensive	978.02	010.11	1	1.88	0.04	0.05	1	1.88	0.04	0.05
Total Nitrogen, Combustion		010.60	10	1.82	0.18	0.05	10	1.82	0.18	0.05
Total Nitrogen, Other		010.99	1	2.22	0.12	0.17	1	2.22	0.12	0.17
Method Group 010.XX PCT			12	1.86	0.20	0.06	12	1.86	0.20	0.06
Total Phosphate, Grav Quimociac	962.02	020.10	6	41.06	3.25	0.20	6	41.06	3.25	0.20
Total Phosphate, Spectrometric	958.01	020.20	13	40.92	0.63	0.33	12	40.99	0.49	0.17
Total Phosphate, Automated	978.01	020.40	8	40.83	0.21	0.10	7	40.80	0.18	0.06
Total Phosphate, ICP		020.50	9	42.21	2.83	0.21	9	43.02	3.00	0.17
Total Phosphate, Other		020.99	5	41.94	1.85	0.02	4	41.19	1.08	0.00
Method Group 020.XX PCT			44	41.29	2.00	0.25	42	41.46	2.13	0.16
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	4.28	0.04	0.05	1	4.28	0.04	0.05
Insoluble Phosphate, Automated	978.01	030.40	2	4.46	0.11	0.08	2	4.46	0.11	0.08
Insoluble Phosphate, Other		030.99	1	4.54	0.02	0.03	1	4.54	0.02	0.03
Method Group 030.XX PCT			4	4.43	0.13	0.06	4	4.43	0.13	0.06
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	36.94	0.00	0.00	1	36.94	0.00	0.00
InDir Available Phosphate, Automated ..	960.02	040.40	2	36.33	0.21	0.07	2	36.33	0.21	0.07
InDir Available Phosphate, Other		040.99	1	36.62	0.04	0.05	1	36.62	0.04	0.05
Method Group 040.XX PCT			4	36.55	0.30	0.04	4	36.55	0.30	0.04
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	13	36.72	1.43	0.30	13	36.72	1.43	0.30
Dir Available Phosphate, Spectrometric	960.03D	041.20	3	37.73	2.97	0.29	3	37.73	2.97	0.29
Dir Available Phosphate, Automated	978.01	041.40	4	38.25	1.55	0.18	4	38.25	1.55	0.18
Dir Available Phosphate, ICP		041.50	12	38.31	2.28	0.67	11	38.30	2.32	0.40
Dir Available Phosphate, EDTA Extract .	993.01	041.60	13	38.62	1.11	0.42	12	38.56	1.03	0.18
Method Group 041.XX PCT			45	37.90	1.89	0.42	42	37.80	1.87	0.25
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	28.90	0.27	0.13	2	28.90	0.27	0.13
Soluble Potash, STPB Oxalate	958.02	050.00	2	2.03	0.15	0.15	2	2.03	0.15	0.15
Soluble Potash, AA (Citrate)		050.31	1	1.63	0.18	0.26	1	1.63	0.18	0.26
Soluble Potash, ICP (Oxalate)		050.50	2	2.20	0.20	0.06	2	2.20	0.20	0.06
Soluble Potash, ICP (Citrate)		050.51	3	1.94	0.18	0.18	3	1.94	0.18	0.18
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	2	1.72	0.06	0.06	2	1.72	0.06	0.06
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	3	1.96	0.22	0.03	3	1.96	0.22	0.03
Soluble Potash, Other		050.99	5	1.96	0.07	0.06	5	1.96	0.07	0.06
Method Group 050.XX PCT			18	1.94	0.20	0.10	17	1.94	0.19	0.07
Free Water, Vacuum Oven	965.08B	060.00	5	1.56	0.20	0.08	5	1.56	0.20	0.08
Free Water, Vacuum Desiccate	965.08A	060.10	1	1.31	0.01	0.02	1	1.31	0.01	0.02

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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
Method Group 060.XX PCT			6	1.52	0.20	0.07	6	1.52	0.20	0.07
Acid Soluble Calcium, AA	945.04	101.00	3	16.38	0.21	0.22	3	16.38	0.21	0.22
Acid Soluble Calcium, ICP		101.30	24	15.95	0.80	0.28	22	16.00	0.80	0.20
Acid Soluble Calcium, Other		101.99	3	16.13	1.12	0.07	3	16.13	1.12	0.07
Method Group 101.XX PCT			30	16.01	0.80	0.25	28	16.05	0.80	0.19
Acid Soluble Magnesium, AA	984.01	121.00	4	0.91	0.04	0.04	4	0.91	0.04	0.04
Acid Soluble Magnesium, ICP		121.30	23	0.88	0.04	0.02	22	0.89	0.04	0.01
Acid Soluble Magnesium, Other		121.99	3	0.84	0.06	0.01	3	0.84	0.06	0.01
Method Group 121.XX PCT			30	0.88	0.04	0.02	29	0.88	0.04	0.02
Sulfur, Gravimetric	980.02a	144.01	7	1.97	0.07	0.05	7	1.97	0.07	0.05
Sulfur, Gravimetric	980.02b	144.02	1	2.06	0.01	0.01	1	2.06	0.01	0.01
Sulfur, Spectrometric		144.70	1	1.93	0.06	0.09	1	1.93	0.06	0.09
Sulfur, Other		144.99	16	1.98	0.11	0.04	16	1.98	0.11	0.04
Method Group 144.XX PCT			25	1.98	0.10	0.04	24	1.97	0.08	0.04
Arsenic, Atomic Absorption		151.00	1	17.50	0.71	1.00	1	17.50	0.71	1.00
Arsenic, ICP		151.30	8	19.97	3.27	1.25	7	20.73	2.59	0.84
Arsenic, Other		151.99	3	17.14	3.77	1.25	3	17.14	3.77	1.25
Method Group 151.XX PPM			13	17.98	5.03	1.22	12	18.26	5.11	0.99
Acid Soluble Boron, Spectrometric	982.01	165.00	1	0.050	0.004	0.005	1	0.050	0.004	0.005
Acid Soluble Boron, Other		165.99	8	0.022	0.017	0.001	7	0.021	0.018	0.000
Method Group 165.XX PCT			9	0.025	0.019	0.001	8	0.022	0.017	0.001
Cadmium, Atomic Absorption		181.00	2	72.65	2.80	2.00	2	72.65	2.80	2.00
Cadmium, ICP		181.30	13	67.15	5.71	1.49	13	67.15	5.71	1.49
Cadmium, Other		181.99	2	75.22	1.89	1.98	2	75.22	1.89	1.98
Method Group 181.XX PPM			17	68.75	5.89	1.61	17	68.75	5.89	1.61
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	6	0.76	0.08	0.02	5	0.76	0.08	0.01
Water Soluble Chlorine, Other		190.99	2	0.69	0.02	0.02	2	0.69	0.02	0.02
Method Group 190.XX PCT			8	0.74	0.07	0.02	7	0.74	0.08	0.01
Chromium, ICP		191.30	11	543.40	40.98	13.45	11	543.40	40.98	13.45
Chromium, Other		191.99	2	525.82	9.57	9.23	2	525.82	9.57	9.23
Method Group 191.XX PPM			13	540.69	38.25	12.80	13	540.69	38.25	12.80
Acid Soluble Cobalt, ICP	965.11	202.30	12	8.18	2.03	0.39	12	8.18	2.03	0.39
Acid Soluble Cobalt, Other		202.99	2	7.32	0.31	0.33	2	7.32	0.31	0.33
Method Group 202.XX PPM			14	8.06	1.90	0.38	14	8.06	1.90	0.38
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	0.0087	0.0001	0.0002	2	0.0087	0.0001	0.0002
Acid Soluble Copper, ICP		221.30	22	0.0084	0.0009	0.0004	22	0.0084	0.0009	0.0004
Acid Soluble Copper, Other		221.99	3	0.0081	0.0005	0.0005	3	0.0081	0.0005	0.0005
Method Group 221.XX PCT			27	0.0084	0.0008	0.0004	27	0.0084	0.0008	0.0004
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	5	0.78	0.02	0.02	4	0.78	0.01	0.01

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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 Iron, ICP		241.30	29	0.74	0.05	0.01	27	0.74	0.05	0.01
Acid Soluble Iron, Other		241.99	1	0.81	0.00	0.00	1	0.81	0.00	0.00
Method Group 241.XX PCT			35	0.75	0.05	0.01	32	0.75	0.05	0.01
Lead, ICP		251.30	8	3.52	1.88	0.80	8	3.52	1.88	0.80
Lead, Other		251.99	2	3.10	0.22	0.08	2	3.10	0.22	0.08
Method Group 251.XX PPM			10	3.44	1.68	0.66	10	3.44	1.68	0.66
Acid Soluble Manganese, ICP	972.02a	261.30	14	0.062	0.005	0.003	14	0.062	0.005	0.003
Mercury, Other		281.99	1	0.52	0.02	0.02	1	0.52	0.02	0.02
Molybdenum, ICP		289.30	12	6.53	0.90	0.20	11	6.63	0.87	0.15
Molybdenum, Other		289.99	4	6.48	2.64	0.18	4	6.48	2.64	0.18
Method Group 289.XX PPM			16	6.52	1.48	0.20	15	6.59	1.50	0.16
Nickel, ICP		291.30	13	74.08	8.33	2.48	13	74.08	8.33	2.48
Nickel, Other		291.99	2	83.11	7.72	1.05	2	83.11	7.72	1.05
Method Group 291.XX PPM			15	75.29	8.70	2.29	15	75.29	8.70	2.29
Selenium, ICP		301.30	3	1.94	1.02	0.47	3	1.94	1.02	0.47
Selenium, Other		301.99	4	2.25	2.21	0.10	4	2.25	2.21	0.10
Method Group 301.XX PPM			7	2.12	1.75	0.26	6	2.18	1.87	0.08
Sodium, Flame Photometric	974.01	311.30	1	0.41	0.00	0.00	1	0.41	0.00	0.00
Sodium, Other		311.99	6	0.42	0.02	0.02	6	0.42	0.02	0.02
Method Group 311.XX PCT			7	0.42	0.02	0.02	6	0.42	0.01	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	3	0.056	0.003	0.002	3	0.056	0.003	0.002
Acid Soluble Zinc, ICP		321.30	22	0.055	0.006	0.002	21	0.054	0.006	0.002
Acid Soluble Zinc, Other		321.99	3	0.057	0.002	0.001	3	0.057	0.002	0.001
Method Group 321.XX PCT			28	0.055	0.006	0.002	27	0.055	0.006	0.002

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 010.99 PCT			Meth: 020.20 PCT			Meth: 020.50 PCT			Meth: 020.XX PCT		
Ammoniacal Nitrogen			Total Nitrogen			Total Phosphate			Total Phosphate			Total Phosphate		
<u>MgO Distillation</u>			<u>Other</u>			<u>Spectrometric</u>			<u>ICP</u>					
232	0.59	-.71	030	2.22	.71	416	40.95 X	-.14	432	39.57 R	-1.16	444	41.02	-.22
						231	40.95	-.14	307	39.40	-1.21	231	40.95	-.24
						292	40.91	-.20	389	38.00	-1.67	416	40.95 X	-.24
Meth: 001.99 PCT			Meth: 010.XX PCT			232 40.92 -.47			Meth: 020.99 PCT			292 40.91 -.26		
Ammoniacal Nitrogen			Total Nitrogen			363 40.70 -.61			Total Phosphate			027 40.90 -.27		
<u>Other</u>			030 2.22 1.86			420 40.83 -.63			<u>Other</u>			096 40.88 -.28		
096	0.70	.71	354	2.08	1.11	371 40.69 -.63			Total Phosphate			232 40.92 -.28		
			422	2.03	.86	450 40.52 -.99			<u>Other</u>			470 40.86 -.28		
			460	1.88	.16	309 40.41 -1.19			455 44.95 R 3.47			258 40.80 -.31		
Meth: 001.XX PCT			Avg 1.86			324 40.05 R -3.04			322 42.78 1.47			420 40.83 -.32		
<u>Ammoniacal Nitrogen</u>			096 1.85 -.09			428 38.69 s -4.86			Avg 41.19			363 40.70 -.36		
096	0.70	.83	389	1.84	-.13	Meth: 020.40 PCT			137 41.16 -.02			409 40.69 -.36		
Avg	0.65		232	1.83	-.20	Total Phosphate			258 40.80 -.36			371 40.69 -.36		
232	0.59	-.90	402	1.85	-.25	<u>Automated</u>			211 40.00 -1.09			456 40.69 -.37		
			022	1.85	-.25	247 41.15 1.92			443 22.24 s -17.56			042 40.66 -.38		
			009	1.73	-.65	105 41.06 R 1.87			Meth: 020.XX PCT			035 40.65 -.38		
Meth: 002.99 PCT			018 1.73 -.66			027 40.90 .60			<u>Total Phosphate</u>			450 40.52 -.45		
Nitrate Nitrogen			325 1.42 -2.23			096 40.88 .58			426 46.84 s 2.52			309 40.41 -.50		
<u>Other</u>						Avg 40.80			114 46.50 2.36			095 40.10 -.64		
232	0.06	.71				409 40.69 -.61			422 46.31 2.27			211 40.00 -.69		
						456 40.69 -.64			393 45.91 2.08			324 40.05 R -.86		
						042 40.66 -.81			455 44.95 1.64			432 39.57 -.91		
						035 40.65 -.83			452 43.50 .96			307 39.40 -.97		
						095 40.10 s -3.93			234 43.36 R .94			428 38.69 R -1.33		
Meth: 010.11 PCT			Meth: 020.10 PCT			Meth: 020.50 PCT			255 43.24 .83			389 38.00 -1.63		
Total Nitrogen			Total Phosphate			Total Phosphate			086 42.95 .72			041 35.73 -2.69		
<u>Modified Comprehensi</u>			<u>Grav Quimociac</u>			<u>ICP</u>			322 42.78 .62			443 22.24 s -9.06		
460	1.88	.71	114	46.50	1.67	426 46.84 S 1.27			460 42.13 .31			Meth: 030.10 PCT		
			090	41.22	.05	422 46.31 1.10			406 41.63 .08			Insoluble Phosphate		
			105	41.07	.04	393 45.91 .96			Avg 41.33			<u>Grav Quimociac</u>		
			Avg	41.06		452 43.50 .16			419 41.32 -.11			090 4.28 -.71		
			444	41.02	-.04	255 43.24 .07			090 41.22 -.12			Meth: 030.40 PCT		
			470	40.86	-.06	Avg 42.54			137 41.16 -.14			Insoluble Phosphate		
			041	35.73	-1.64	086 42.95 -.11			247 41.15 -.15			<u>Automated</u>		
			Meth: 020.20 PCT			402 41.04 -.66			105 41.07 -.20			409 4.55 .88		
			Total Phosphate						402 41.04 -.22			Avg 4.46		
			<u>Spectrometric</u>											
			234	43.36 s	5.01									
			460	42.13	2.32									
			406	41.63	1.30									
			419	41.32	.76									
			Avg	40.99										

* 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: 030.40 PCT			Meth: 040.XX PCT			Meth: 041.40 PCT			Meth: 041.XX PCT			Meth: 041.XX PCT		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
<u>Automated</u>			<u>Automated</u>			<u>Automated</u>			<u>Automated</u>			<u>Automated</u>		
096	4.37	-.86	090	36.94	1.27	354	42.29	2.39	131	35.93	-1.00	030	41.48	1.97
			247	36.62	.22	Avg	38.25		040	35.66	-1.15	360	40.70	1.55
			Avg	36.55		131	35.93	-1.50	185	35.38	-1.30	024	40.14	1.25
Meth: 030.50 PCT			096 36.51 -.17			Meth: 041.50 PCT			018 39.35 R 1.21			452 35.29 -1.34		
<u>Insoluble Phosphate</u>			409 36.15 -1.34			<u>Dir Available Phosph</u>			393 40.05 1.20			102 35.28 -1.37		
<u>ICP</u>			Meth: 041.10 PCT			<u>ICP</u>			325 39.85 R 1.17			419 35.19 -1.40		
452	8.22 S	.00	Dir Available Phosph			354	42.29	1.72	029	39.82	1.08	040	35.23	-1.42
			<u>Grav Quimociac</u>			360	40.70	1.03	211	39.76	1.04	177	34.79	-1.61
Meth: 030.99 PCT			211	39.76	2.13	009	38.43 R	.78	009	38.43 R	1.02	Meth: 048.20 PCT		
<u>Insoluble Phosphate</u>			105	38.76	1.43	393	40.05	.75	007	39.56	.96	<u>Water Soluble Phosph</u>		
<u>Other</u>			072	37.84	.79	325	39.85	.74	043	39.47	.89	<u>Spectrometric</u>		
247	4.54	-.71	022	37.45	.51	007	39.56	.57	136	39.36	.83	363	29.13	.86
			055	37.06	.40	043	38.34	.04	296	39.15	.72	Avg	28.90	
Meth: 030.XX PCT			009	36.78	.10	Avg	38.30		105	38.92	.60	096	28.67	-.87
<u>Insoluble Phosphate</u>			Avg	36.72		377	36.86	-.62	072	38.91	.59			
452	8.22 s	29.86	086	36.45	-.20	055	36.82	-.64	105	38.76	.51	Meth: 050.00 PCT		
409	4.55	.96	260	36.18	-.38	368	36.29	-.87	037	38.68	.48	<u>Soluble Potash</u>		
247	4.54	.83	131	36.02	-.50	452	35.29	-1.30	351	38.68	.47	<u>STPB Oxalate</u>		
Avg	4.43		040	35.66	-.75	040	35.23	-1.35	233	38.51	.38	009	2.11	.53
096	4.37	-.58	185	35.38	-.94	Meth: 041.60 PCT			073	38.49	.37	Avg	2.03	
090	4.28	-1.25	102	35.28	-1.07	<u>Dir Available Phosph</u>			095	38.34	.30	022	1.95	-1.11
			177	34.79	-1.36	<u>EDTA Extract</u>			043	38.34	.29	Meth: 050.31 PCT		
Meth: 040.10 PCT			Meth: 041.20 PCT			018	39.35 R	1.78	072	37.84	.08	<u>Soluble Potash</u>		
<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			024	40.14	1.54	Avg	37.80		<u>AA (Citrate)</u>		
<u>Grav Quim</u>			<u>Spectrometric</u>			043	39.47	.89	231	37.70	-.05	030	1.63	.71
090	36.94	.00	030	41.48	1.27	136	39.36	.79	022	37.45	-.19			
			Avg	37.73		296	39.15	.58	042	37.43	-.20	Meth: 050.50 PCT		
Meth: 040.40 PCT			363	36.52	-.41	105	38.92	.35	055	37.06	-.47	<u>Soluble Potash</u>		
<u>InDir Available Phos</u>			419	35.19	-.85	037	38.68	.23	377	36.86	-.50	<u>ICP (Oxalate)</u>		
<u>Automated</u>			Meth: 041.40 PCT			351	38.68	.13	055	36.82	-.53	<u>Avg</u>		
096	36.51	.86	<u>Dir Available Phosph</u>			Avg	38.56		009	36.78	-.55	422	2.37	.86
Avg	36.33		<u>Automated</u>			073	38.49	-.08	363	36.52	-.69	Avg	2.20	
409	36.15	-.87	029	39.82	1.02	233	38.51	-.15	086	36.45	-.72	354	2.03	-.87
			072	38.91	.43	231	37.70	-.84	368	36.29	-.82			
Meth: 040.99 PCT			095	38.34	.12	042	37.43	-1.10	177	36.21	-.85			
<u>InDir Available Phos</u>						177	36.21	-2.29	260	36.18	-.87			
<u>Other</u>									131	36.02	-.96			
247	36.62	.71												

* 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: 050.51 PCT			Meth: 050.XX PCT			Meth: 060.XX PCT			Meth: 101.30 PCT			Meth: 101.XX PCT		
Soluble Potash			Soluble Potash			Free Water			Acid Soluble Calcium			Acid Soluble Calcium		
<u>ICP (Citrate)</u>			<u>ICP (Citrate)</u>			<u>ICP (Citrate)</u>			<u>ICP (Citrate)</u>			<u>ICP (Citrate)</u>		
009	2.06 X	1.48	360	2.05	.62	443	7.95 s	31.42	095	15.68	-.46	450	16.08	.04
Avg	1.94		354	2.03	.51	456	1.75	1.17	102	15.42	-.73	Avg	16.05	
389	1.93	-.18	325	2.01	.37	096	1.74	1.06	292	15.42	-.73	419	16.00	-.08
096	1.85	-.53	Avg	1.94		363	1.65	.63	420	15.37	-.82	041	16.00	-.26
Meth: 050.60 PCT			Meth: 050.60 PCT			Meth: 050.60 PCT			Meth: 050.60 PCT			Meth: 050.60 PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>Flame (Oxalate)</u>			<u>Flame (Oxalate)</u>			<u>Flame (Oxalate)</u>			<u>Flame (Oxalate)</u>			<u>Flame (Oxalate)</u>		
460	1.75	1.05	131	1.94	-.08	Avg	1.52		009	15.49 R	-.96	432	15.78	-.42
Avg	1.72		232	1.94	-.13	416	1.35 X	-.86	360	15.30 R	-1.06	095	15.68	-.52
309	1.68	-.63	389	1.93	-.15	007	1.34	-.89	389	14.90	-1.38	102	15.42	-.80
Meth: 050.61 PCT			Meth: 050.61 PCT			Meth: 050.61 PCT			Meth: 050.61 PCT			Meth: 050.61 PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>Flame (Citrate)</u>			<u>Flame (Citrate)</u>			<u>Flame (Citrate)</u>			<u>Flame (Citrate)</u>			<u>Flame (Citrate)</u>		
018	2.24	1.28	402	1.87	-.40	419	1.31	-1.04	307	14.64	-1.70	420	15.37	-.89
Avg	1.96		024	1.86	-.43	Meth: 101.00 PCT			232	14.45	-1.94	009	15.49 R	-1.01
024	1.86	-.46	096	1.85	-.46	Acid Soluble Calcium			Meth: 101.99 PCT			360	15.30 R	-1.12
035	1.78	-.81	035	1.78	-.82	<u>AA</u>			Acid Soluble Calcium			389	14.90	-1.45
Meth: 050.99 PCT			Meth: 050.99 PCT			Meth: 050.99 PCT			Meth: 050.99 PCT			Meth: 050.99 PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>		
360	2.05	1.40	309	1.68	-1.33	028	16.50	.59	137	17.05	.82	042	14.70	-1.78
325	2.01	.73	030	1.63	-1.72	Avg	16.38		409	16.64	.45	030	0.06 s	-20.08
Avg	1.96		Meth: 060.00 PCT			043	16.32	-.35	Avg	16.13		Meth: 121.00 PCT		
131	1.94	-.36	Free Water			296	16.32	-1.43	042	14.70	-1.27	Acid Soluble Magnesi		
232	1.94	-.45	<u>Vacuum Oven</u>			030	0.06 S	-78.68	Meth: 101.XX PCT			<u>AA</u>		
402	1.87	-1.29	456	1.75	1.01	Meth: 101.30 PCT			Acid Soluble Calcium			309		
Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 050.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>ICP (Citrate)</u>			<u>ICP (Citrate)</u>			<u>ICP (Citrate)</u>			<u>ICP (Citrate)</u>			<u>ICP (Citrate)</u>		
422	2.37	2.23	096	1.74	.89	Acid Soluble Calcium			Acid Soluble Calcium			309		
018	2.24	1.53	363	1.65	.43	<u>ICP</u>			<u>ICP</u>			Avg		
009	2.06 R	1.35	Avg	1.56		422	20.37 s	5.46	422	20.37 s	5.42	0.91		
009	2.11	.90	416	1.35 X	-1.10	452	18.09	2.62	452	18.09	2.57	043		
022	1.95	.77	007	1.34	-1.13	354	16.91	1.15	137	17.05	1.25	028		
Meth: 060.10 PCT			Meth: 060.10 PCT			Meth: 060.10 PCT			Meth: 060.10 PCT			Meth: 060.10 PCT		
Free Water			Free Water			Free Water			Free Water			Free Water		
<u>Vacuum Desiccate</u>			<u>Vacuum Desiccate</u>			<u>Vacuum Desiccate</u>			<u>Vacuum Desiccate</u>			<u>Vacuum Desiccate</u>		
422	2.37	2.23	419	1.31	.71	Meth: 101.30 PCT			Meth: 101.30 PCT			296		
018	2.24	1.53	Meth: 060.99 PCT			Meth: 101.30 PCT			Meth: 101.30 PCT			0.87		
009	2.06 R	1.35	Free Water			Acid Soluble Calcium			Acid Soluble Calcium			-1.02		
009	2.11	.90	<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
022	1.95	.77	443	7.95 S	.00	422	20.37 s	5.46	354	16.91	1.08	Meth: 121.30 PCT		
Meth: 060.99 PCT			Meth: 060.99 PCT			Meth: 060.99 PCT			Meth: 060.99 PCT			Meth: 121.30 PCT		
Free Water			Free Water			Free Water			Free Water			Acid Soluble Magnesi		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>ICP</u>		
422	2.37	2.23	131	1.94	-.08	422	20.37 s	5.46	354	16.91	1.08	422		
018	2.24	1.53	232	1.94	-.13	452	18.09	2.62	035	16.70	.82	255		
009	2.06 R	1.35	389	1.93	-.15	452	18.09	2.62	409	16.64	.74	255		
009	2.11	.90	402	1.87	-.40	354	16.91	1.15	255	16.56	.64	432		
022	1.95	.77	Meth: 060.99 PCT			Meth: 060.99 PCT			Meth: 060.99 PCT			041		
Free Water			Free Water			Free Water			Free Water			041		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>		
422	2.37	2.23	419	1.31	.71	377	16.17	.22	368	16.36	.63	409		
018	2.24	1.53	Meth: 060.99 PCT			Meth: 060.99 PCT			Meth: 060.99 PCT			131		
009	2.06 R	1.35	Free Water			Free Water			Free Water			354		
009	2.11	.90	<u>Other</u>			<u>Other</u>			<u>Other</u>			037		
022	1.95	.77	443	7.95 S	.00	086	16.08	.19	028	16.50	.56	247		
Free Water			Free Water			Free Water			Free Water			037		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>		
422	2.37	2.23	131	1.94	-.08	450	16.08	.10	296	16.32	.50	247		
018	2.24	1.53	232	1.94	-.13	419	16.00	.05	433	16.42	.64	409		
009	2.06 R	1.35	389	1.93	-.15	419	16.00	.05	247	16.37	.41	131		
009	2.11	.90	402	1.87	-.40	Avg	16.00		233	16.35	.38	086		
022	1.95	.77	Meth: 060.99 PCT			Meth: 060.99 PCT			Meth: 060.99 PCT			247		
Free Water			Free Water			Free Water			Free Water			037		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>		
422	2.37	2.23	419	1.31	.71	377	16.17	.22	377	16.17	.15	247		
018	2.24	1.53	Meth: 060.99 PCT			Meth: 060.99 PCT			Meth: 060.99 PCT			037		
009	2.06 R	1.35	Free Water			Free Water			Free Water			037		
009	2.11	.90	<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>		
022	1.95	.77	443	7.95 S	.00	086	16.08	.19	377	16.17	.15	247		
Free Water			Free Water			Free Water			Free Water			037		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</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
Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 144.01 PCT			Meth: 144.XX PCT			Meth: 151.30 PPM		
<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>			<u>Sulfur</u>			<u>Arsenic</u>		
<u>ICP</u>			<u>ICP</u>			<u>Gravimetric</u>			<u>ICP</u>			<u>ICP</u>		
102	0.89	.49	028	0.90 R	.87	444	1.87	-1.51	095	2.33 s	4.59	368	25.55	1.87
420	0.90	.49	037	0.91	.61	035	2.29 A	4.03	035	2.29 A	4.03	450	21.50	.35
233	0.90	.47	247	0.91	.52	255	2.11	1.77	255	2.11	1.77	037	21.40	.32
450	0.90	.43	420	0.90	.51	Meth: 144.02 PCT			043	2.07	1.26	009	21.26	.21
419	0.90	.29	233	0.90	.51	<u>Sulfur</u>			292	2.06	1.12	Avg 20.73		
389	0.89	.27	102	0.89	.47	<u>Gravimetric</u>			037	2.05	1.04	233	19.70	-.44
Avg	0.89		450	0.90	.46	292 2.06 .71			450	2.05	1.01	247	18.00	-1.06
377	0.88	-.16	419	0.90	.34	Meth: 144.70 PCT			419	2.04	.94	232	17.70	-1.20
095	0.88	-.29	043	0.89	.28	<u>Sulfur</u>			422	2.04	.87	102	14.67 R	-2.47
096	0.87	-.41	389	0.89	.28	<u>Spectrometric</u>			233	2.02	.86	444	5.11 s	-6.03
292	0.87	-.55	460	0.89	.24	409 1.93 .71			389	2.03	.80	Meth: 151.99 PPM		
009	0.87	-.69	Avg	0.88		Meth: 144.99 PCT			354	1.98	.35	<u>Arsenic</u>		
433	0.86	-.71	377	0.88	-.05	<u>Sulfur</u>			102	1.98	.28	<u>Other</u>		
035	0.85	-.80	095	0.88	-.18	035 2.29 2.65			296	1.98	.22	231	20.33	.85
452	0.86 R	-1.03	096	0.87	-.28	255 2.11 1.08			Avg	1.97		409	18.55	.39
232	0.84	-1.11	292	0.87	-.41	037 2.05 .58			368	1.96	-.34	Avg 17.14		
360	0.81	-1.81	433	0.86	-.54	450 2.05 .55			028	1.95	-.43	086 12.53 -1.28		
086	0.81	-2.07	009	0.87	-.55	419 2.04 .50			086	1.92	-.66	Meth: 151.XX PPM		
			296	0.87	-.62	422 2.04 .45			452	1.91	-.66	<u>Arsenic</u>		
			035	0.85	-.63	389 2.03 .42			137	1.91	-.72	368	25.55	1.43
			137	0.85	-.73	Avg 1.98			105	1.91	-.76	450	21.50	.64
			452	0.86	-.85	354 1.98 -.24			409	1.93	-.77	037	21.40	.62
			232	0.84	-.90	368 1.96 -.29			027	1.90	-1.07	009	21.26	.59
			360	0.81	-1.52	086 1.92 -.60			096	1.89	-1.08	231	20.33	.41
			086	0.81	-1.75	452 1.91 -.61			232	1.88	-1.12	233	19.70	.30
			042	0.77	-2.54	137 1.91 -.65			444	1.87	-1.32	409	18.55	.10
						027 1.90 -.87			307	1.82	-2.01	Avg 18.26		
						096 1.89 -.89			360	1.50 s	-5.92	247 18.00 -.06		
						232 1.88 -.92			009	0.20 s	-22.35	232 17.70 -.18		
						307 1.82 -1.53			Meth: 151.00 PPM			136 17.50 -.18		
						360 1.50 s -4.26			<u>Arsenic</u>			102 14.67 R -.81		
						009 0.20 s -15.66			<u>Atomic Absorption</u>			086 12.53 -1.15		
									136 17.50 .71			444 5.11 -2.58		

* 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: 165.00 PCT Acid Soluble Boron <u>Spectrometric</u>			Meth: 181.30 PPM Cadmium <u>ICP</u>			Meth: 181.XX PPM Cadmium <u>ICP</u>			Meth: 190.XX PCT Water Soluble Chlori <u>ICP</u>			Meth: 191.XX PPM Chromium <u>ICP</u>		
055	0.050	-.71	247	74.50	1.29	009	67.68	-.32	102	0.67	-.91	419	546.00	.14
			037	73.01	1.03	452	64.30	-.83	460	0.67	-.98	Avg	540.69	
			102	72.61	.97	368	61.60	-1.22	368	0.18 s	-7.58	409	531.50	-.33
Meth: 165.99 PCT Acid Soluble Boron <u>Other</u>			096			233			Meth: 191.30 PPM Chromium <u>ICP</u>			231		
231	0.050	1.56	086	70.78	.66	232	60.61	-1.39	450	745.50 s	5.62	086	515.40	-.84
009	0.040	1.01	450	70.15	.53	419	57.00	-1.43	035	593.00	1.21	368	506.50	-.91
422	0.030	.48	009	67.68	.28	444	13.10 s	-9.45	096	587.50	1.08	452	503.00	-1.01
354	0.026 R	.25	035	68.40	.22	Meth: 190.00 PCT Water Soluble Chlori <u>Titrimetric</u>			247	574.00	.75	232	463.50	-2.02
Avg	0.021		Avg	67.15		029	0.86	1.21	037	568.28	.66	444	87.60 s	-11.85
389	0.018	-.17	452	64.30	-.61	422	0.81	.59	102	561.68	.55	Meth: 202.00 PPM Acid Soluble Cobalt <u>AA</u>		
086	0.003	-.95	368	61.60	-.98	043	0.80	.46	009	558.50	.47	136	22.50 S	.00
409	0.003	-.97	233	60.61	-1.16	Avg	0.76		419	546.00	.07	Meth: 202.30 PPM Acid Soluble Cobalt <u>ICP</u>		
232	0.003	-.97	232	60.35	-1.19	028	0.72 R	-.78	Avg	543.40		096	10.50	1.17
Meth: 165.XX PCT Acid Soluble Boron <u>ICP</u>			Meth: 181.99 PPM Cadmium <u>Other</u>			Meth: 190.99 PCT Water Soluble Chlori <u>Other</u>			Meth: 191.99 PPM Chromium <u>Other</u>			452		
231	0.050	1.64	409	76.50	.93	455	3.53 S	122.65	444	87.60 s	-11.12	450	503.00	-1.00
055	0.050 R	1.62	Avg	75.22		009	0.71	.83	232	463.50	-1.95	450	10.40	1.10
009	0.040	1.04	231	73.93	-.80	Meth: 181.XX PPM Cadmium <u>ICP</u>			Meth: 191.99 PPM Chromium <u>Other</u>	444				
422	0.030	.48	409	76.50	1.33	409	76.50	1.33	409	531.50	1.07	037	9.88	.84
354	0.026	.24	363	74.80	1.06	363	74.80	1.06	460	0.67	-.90	035	9.50	.66
Avg	0.022		247	74.50	.98	368	0.18 S	-22.40	368	0.18 S	-22.40	452	8.62	.22
389	0.018	-.21	231	73.93	.89	Meth: 190.XX PCT Water Soluble Chlori <u>ICP</u>			409	525.82		086	8.59	.20
086	0.003	-1.05	037	73.01	.73	455	3.53 s	36.85	Avg	525.82		Avg	8.18	
409	0.003	-1.07	102	72.61	.67	029	0.86	1.55	231	520.13	-.60	247	7.10	-.57
232	0.003	-1.07	096	72.00	.58	422	0.81	.90	Meth: 191.XX PPM Chromium <u>ICP</u>	232				
Meth: 181.00 PPM Cadmium <u>Atomic Absorption</u>			086			043			450			419		
363	74.80	.94	136	70.50	.31	Avg	0.74		450	745.50 s	6.08	419	6.00	-1.08
Avg	72.65		450	70.15	.24	009	0.71	-.49	035	593.00	1.37	422	4.43	-1.85
136	70.50	-.79	Avg	68.75		028	0.72 R	-.59	096	587.50	1.22	Meth: 202.99 PPM Acid Soluble Cobalt <u>Other</u>		
			035	68.40	-.07	055	0.68	-.84	247	574.00	.87	409	7.48	1.12
									037	568.28	.77	Avg	7.32	
									102	561.68	.65	231	7.17	-.50
									009	558.50	.56			

* 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: 202.XX PPM			Meth: 221.30 PCT			Meth: 221.XX PCT			Meth: 241.30 PCT			Meth: 241.XX PCT		
<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>		
136	22.50 s	7.61	ICP			035	0.0087	.36	ICP			354	0.81	1.29
096	10.50	1.31	095	0.0082	-.20	102	0.0086	.33	422	0.81	1.28	137	0.81	1.24
450	10.40	1.24	433	0.0081	-.37	Avg	0.0084		247	0.80	1.09	422	0.81	1.14
009	10.35	1.21	232	0.0081	-.42	231	0.0084	-.02	102	0.78	.91	028	0.78 R	1.09
037	9.88	.96	307	0.0080	-.47	095	0.0082	-.20	233	0.77	.63	247	0.80	.95
035	9.50	.76	009	0.0079	-.59	433	0.0081	-.39	368	0.75 R	.55	043	0.80	.95
452	8.62	.30	086	0.0082	-.65	232	0.0081	-.44	409	0.77	.52	460	0.80	.95
086	8.59	.28	368	0.0078	-.69	307	0.0080	-.49	037	0.76	.45	102	0.78	.78
Avg	8.06		233	0.0078	-.76	009	0.0079	-.63	420	0.76	.43	296	0.78	.57
409	7.48	-.35	389	0.0078	-.80	042	0.0083	-.66	377	0.76	.40	368	0.75 R	.50
231	7.17	-.47	360	0.0075	-.97	086	0.0082	-.70	389	0.75	.23	233	0.77	.48
247	7.10	-.55	419	0.0070	-1.58	368	0.0078	-.73	096	0.75	.16	371	0.77	.46
102	6.50	-.87	452	0.0069	-1.70	233	0.0078	-.81	Avg	0.74		409	0.77	.38
232	6.27	-.94	041	0.0050 S	-3.80	389	0.0078	-.85	131	0.74	-.12	037	0.76	.30
419	6.00	-1.08	420	0.0000 s	-9.35	409	0.0077	-.88	419	0.73	-.23	420	0.76	.28
422	4.43	-1.91				360	0.0075	-1.03	292	0.72	-.34	377	0.76	.25
						419	0.0070	-1.69	009	0.73 R	-.47	389	0.75	.08
			Meth: 221.99 PCT			452	0.0069	-1.83	402	0.71	-.53	Avg	0.75	
			<u>Acid Soluble Copper</u>			041	0.0050 s	-4.08	042	0.71	-.53	096	0.75	-.10
			<u>Other</u>			420	0.0000 s	-10.06	041	0.71	-.54	131	0.74	-.23
			137	0.0400 S	64.36				360	0.71	-.57	419	0.73	-.39
			042	0.0083	1.15				095	0.70	-.65	292	0.72	-.50
			231	0.0084	.54	Meth: 241.00 PCT			433	0.70	-.81	009	0.73 R	-.55
			Avg	0.0081		<u>Acid Soluble Iron</u>			450	0.70	-.87	402	0.71	-.69
			409	0.0077	-.95	<u>Atomic Absorption</u>			452	0.69	-.99	042	0.71	-.69
						028	0.78 R	3.15	086	0.69	-.99	041	0.71	-.69
						043	0.80	.95	307	0.67	-1.32	360	0.71	-.73
						460	0.80	.95	232	0.61	-2.53	095	0.70	-.81
						Avg	0.78					433	0.70	-.97
						296	0.78	-.77	Meth: 241.99 PCT			450	0.70	-1.03
						371	0.77	-1.06	<u>Acid Soluble Iron</u>			452	0.69	-1.16
						030	0.00 s	-59.98	<u>Other</u>			086	0.69	-1.16
									137	0.81	.00	307	0.67	-1.49
						Meth: 241.30 PCT						232	0.61	-2.71
						<u>Acid Soluble Iron</u>						030	0.00 s	-14.35
						<u>ICP</u>								
						255	0.83	1.79	Meth: 241.XX PCT					
						035	0.83	1.72	<u>Acid Soluble Iron</u>					
						354	0.81	1.42	255	0.83	1.65			
									035	0.83	1.58			

* 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: 251.00 PPM			Meth: 261.30 PCT			Meth: 289.30 PPM			Meth: 291.30 PPM			Meth: 291.XX PPM		
Lead			Acid Soluble Manganese			Molybdenum			Nickel			Nickel		
<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
136	22.50 S	.00	247	0.070	1.53	009	4.82	-2.09	247	83.10	1.08	452	64.76	-1.21
			422	0.065	1.16	444	0.95 s	-6.55	096	80.50	.88	232	64.51	-1.24
			041	0.066	.86				009	80.82	.82	419	61.00	-1.64
Meth: 251.30 PPM			041 0.066 .86			Meth: 289.99 PPM			037 80.14 .74			444 21.33 s -6.20		
Lead			354 0.066 .83			Molybdenum			102 77.69 .52			Meth: 301.30 PPM		
<u>ICP</u>			102 0.066 .71			<u>Other</u>			035 74.90 .24			Selenium		
450	6.50	1.61	096	0.065	.66	028	8.45	.74	Avg	74.08		<u>ICP</u>		
368	5.80	1.21	035	0.063	.15	231	8.08	.61	086	72.61	-.34	232	3.06	1.10
086	4.22	.42	Avg	0.062		409	7.11	.24	368	71.00	-.37	Avg	1.94	
Avg	3.52		292	0.060	-.39	Avg	6.48		233	65.05	-1.09	368	1.75	-.66
232	3.44	-.36	009	0.061	-.42	422	2.29	-1.59	452	64.76	-1.12	450	1.00	-.92
452	2.50	-.54	419	0.061	-.44				232	64.51	-1.15			
419	2.30	-.66	131	0.060	-.47	Meth: 289.XX PPM			419 61.00 -1.57			Meth: 301.99 PPM		
102	2.43	-.71	389	0.058	-1.02	<u>Molybdenum</u>			444 21.33 s -6.33			Selenium		
444	0.98	-1.38	086	0.057	-1.16	028	8.45	1.24				<u>Other</u>		
			232	0.052	-2.07	231	8.08	1.00	Meth: 291.99 PPM			231	5.83	1.62
			368	0.049 s	-3.12	450	8.00	.94	Nickel			Avg	2.25	
						247	7.80	.81	<u>Other</u>			409	1.18	-.49
Meth: 251.99 PPM			Meth: 281.99 PPM			433	7.19	.40	231	89.77	.86	296	1.05	-.55
Lead			Mercury			409	7.11	.35	Avg	83.11		086	0.96	-.59
<u>Other</u>			<u>Other</u>			452	6.67	.11	409	76.45	-.87			
409	3.29	.88	086	0.52	.71	233	6.71	.09	Meth: 291.XX PPM			Meth: 301.XX PPM		
Avg	3.10					232	6.64	.05	Nickel			Selenium		
231	2.91	-.85				Avg	6.59		231	89.77	1.66	231	5.83	1.95
						035	6.49	-.07	450	87.00	1.39	232	3.06	.47
Meth: 251.XX PPM			Meth: 289.30 PPM			086	6.45	-.13	247	83.10	.90	Avg	2.18	
Lead			Molybdenum			102	6.46	-.14	096	80.50	.72	368	1.75 R	-.42
136	22.50 s	11.36	<u>ICP</u>			419	5.70	-.60	009	80.82	.65	409	1.18	-.53
450	6.50	1.85	450	8.00	1.58	368	5.45 R	-.80	037	80.14	.57	296	1.05	-.61
368	5.80	1.41	247	7.80	1.35	009	4.82	-1.19	102	77.69	.40	450	1.00	-.63
086	4.22	.51	433	7.19	.65	422	2.29	-2.88	409	76.45	.17	086	0.96	-.65
232	3.44	.40	452	6.67	.18	444	0.95 s	-3.77	Avg	75.29				
Avg	3.44		233	6.71	.12				035	74.90	-.21	Meth: 311.30 PCT		
409	3.29	-.10	232	6.64	.07	Meth: 291.30 PPM			086	72.61	-.41	Sodium		
231	2.91	-.32	Avg	6.63		Nickel			368	71.00	-.49	<u>Flame Photometric</u>		
452	2.50	-.56	035	6.49	-.17	<u>ICP</u>			233	65.05	-1.18	292	0.41	.00
419	2.30	-.69	086	6.45	-.25	450	87.00	1.59						
102	2.43	-.76	102	6.46	-.27									
444	0.98	-1.50	419	5.70	-1.07									
			368	5.45 R	-1.42									

* 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: 311.99 PCT			Meth: 321.30 PCT			Meth: 321.XX PCT								
<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>								
<u>Other</u>			<u>ICP</u>											
422	0.55 S	6.47	037	0.061	1.02	037	0.061	1.04						
307	0.43	1.03	037	0.060	.82	137	0.060	.91						
009	0.43	.52	354	0.060	.82	354	0.060	.82						
086	0.43	.50	102	0.057	.55	028	0.059	.70						
232	0.43	.19	247	0.058	.51	102	0.057	.54						
Avg	0.42		095	0.056	.28	247	0.058	.49						
035	0.42	-.36	009	0.056	.25	296	0.055	.36						
102	0.41	-1.94	096	0.056	.22	231	0.056	.25						
			Avg	0.054		095	0.056	.23						
			131	0.053	-.22	009	0.056	.20						
			452	0.053	-.24	096	0.056	.16						
Meth: 311.XX PCT			Meth: 321.99 PCT			Meth: 321.XX PCT								
<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>								
<u>Other</u>			<u>ICP</u>											
422	0.55 s	9.92	233	0.053	-.28	409	0.055	.11						
307	0.43	1.58	419	0.053	-.29	Avg	0.055							
009	0.43	.79	086	0.053	-.30	131	0.053	-.32						
086	0.43	.77	035	0.052	-.41	452	0.053	-.34						
232	0.43	.29	433	0.053	-.41	233	0.053	-.37						
Avg	0.42		232	0.050	-.69	043	0.054	-.37						
035	0.42	-.57	292	0.050	-.73	419	0.053	-.39						
292	0.41	-1.18	389	0.049	-1.01	086	0.053	-.39						
102	0.41 R	-2.98	041	0.047	-1.31	433	0.053	-.50						
			255	0.042	-2.07	035	0.052	-.52						
			444	0.009 s	-7.46	232	0.050	-.83						
						292	0.050	-.88						
						389	0.049	-1.18						
Meth: 321.00 PCT			Meth: 321.99 PCT			Meth: 321.XX PCT								
<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>								
<u>Atomic Absorption</u>			<u>Other</u>											
428	0.657 S	205.74	137	0.060	1.22	255	0.042	-2.35						
028	0.059	1.05	Avg	0.057		444	0.009 s	-8.27						
Avg	0.056		231	0.056	-.54									
296	0.055	-.73	409	0.055	-.84									
043	0.054	-.93												
Meth: 321.30 PCT			Meth: 321.99 PCT			Meth: 321.XX PCT								
<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>								
<u>ICP</u>			<u>ICP</u>											
450	0.080 s	4.16	428	0.657 s	108.13									
368	0.072	2.81	450	0.080 s	4.49									
422	0.065 R	1.90	368	0.072	3.01									
402	0.062	1.20	422	0.065 R	2.01									
			402	0.062	1.24									

* 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.XX	2	0	1	0	144.99	18	- 1.11	3.88	0.22
010.60	10	0.00	1.01	0.17	144.XX	28	- 0.70	4.63	0.31
010.XX	12	0.00	1.00	0.19	151.30	9	- 0.93	2.24	0.31
020.10	6	0.00	1.05	0.04	151.99	3	0.00	1.08	0.22
020.20	15	- 0.12	2.07	0.79	151.XX	13	- 0.05	0.99	0.16
020.40	9	- 0.27	1.68	0.48	165.99	8	0.030	0.967	0.033
020.50	10	- 0.12	1.04	0.06	165.XX	9	0.179	1.107	0.059
020.99	6	- 2.34	7.60	0.67	181.00	2	0.00	1.09	0.40
020.XX	45	- 0.22	1.68	0.17	181.30	14	- 0.68	2.71	0.16
030.40	2	0.00	1.10	0.38	181.99	2	0.00	0.96	0.54
030.XX	5	5.97	13.38	0.32	181.XX	18	- 0.52	2.43	0.16
040.40	2	0.00	1.21	0.15	190.00	6	- 0.11	0.98	0.20
040.XX	4	0.00	1.08	0.09	190.99	4	25.17	65.81	2.18
041.10	13	0.00	1.01	0.14	190.XX	10	2.90	12.18	0.45
041.20	3	0.00	1.12	0.06	191.30	13	- 0.48	3.59	0.78
041.40	4	0.00	1.08	0.07	191.99	2	0.00	0.84	0.63
041.50	12	0.00	0.97	0.26	191.XX	15	- 0.43	3.57	0.78
041.60	13	0.06	1.00	0.46	202.30	12	0.00	1.01	0.13
041.XX	37	0.13	1.00	0.25	202.99	2	0.00	0.71	0.71
048.20	2	0.00	1.18	0.23	202.XX	15	0.51	2.19	0.15
048.XX	2	0.00	1.18	0.23	221.00	2	0.0000	0.5477	0.7746
050.00	2	0.00	0.75	0.69	221.30	24	- 0.547	2.2316	0.2569
050.50	2	0.00	1.20	0.16	221.99	4	16.089	32.184	0.5659
050.51	3	0.00	0.59	0.78	221.XX	30	0.7873	7.3085	0.2777
050.60	2	0.00	0.85	0.62	241.00	6	- 9.98	24.51	1.31
050.61	3	0.00	1.11	0.09	241.30	29	0.00	0.97	0.17
050.99	5	0.00	0.94	0.43	241.XX	36	- 0.38	2.58	0.20
050.XX	17	- 0.01	0.97	0.35	251.30	8	0.00	1.00	0.25
060.00	5	0.00	1.02	0.24	251.99	2	0.00	1.19	0.19
060.XX	7	4.49	11.91	0.22	251.XX	11	1.03	3.54	0.36
101.00	4	- 19.67	39.34	0.70	261.30	15	- 0.173	1.111	0.605
101.30	25	0.16	1.46	0.25	261.XX	15	- 0.173	1.111	0.605
101.99	3	0.00	1.12	0.05	289.30	13	- 0.61	2.05	0.16
101.XX	32	- 0.51	3.82	0.23	289.99	4	0.00	1.08	0.04
121.00	4	0.00	0.91	0.51	289.XX	17	- 0.27	1.32	0.09
121.30	26	0.54	1.87	0.32	291.30	14	- 0.45	1.95	0.20
121.99	3	0.00	1.11	0.11	291.99	2	0.00	1.22	0.08
121.XX	33	0.42	1.60	0.31	291.XX	16	- 0.39	1.83	0.18
144.01	8	0.66	2.06	0.34	301.30	3	0.00	1.02	0.37

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
301.99	4	0.00	1.08	0.03					
301.XX	7	- 0.03	0.96	0.13					
311.99	7	0.92	2.48	0.81					
311.XX	8	1.08	3.64	1.16					
321.00	4	51.230	102.46	9.169					
321.30	24	- 0.066	2.041	0.225					
321.99	3	0.000	1.076	0.249					
321.XX	30	3.535	19.777	1.771					