

- 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

- 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
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

- 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
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					
Meth: 001.10 PCT																
Ammoniacal Nitrogen																
MgO Distillation	232	0.59	-0.71													
Meth: 001.99 PCT																
Ammoniacal Nitrogen																
Other	096	0.70	.71													
Meth: 001.XX PCT																
Ammoniacal Nitrogen																
Other	096	0.70	1.86													
Meth: 010.11 PCT																
Total Nitrogen																
Modified Comprehensive	460	1.88	.71													
Meth: 010.60 PCT																
Total Nitrogen																
Combustion	354	2.08	1.45													
	422	2.03	1.17													
	402	1.85	.33													
	022	1.85	.33													
	096	1.85	.17													
	232	1.83	.15													
	389	1.84	.13													
Avg	1.82															
009	1.73															
018	1.73															
325	1.42															
Meth: 010.99 PCT																
Total Nitrogen																
Other	030	2.22	.71													
Meth: 010.XX PCT																
Total Nitrogen																
Other	030	2.22	1.86													
Meth: 020.20 PCT																
Total Phosphate																
Spectrometric	416	40.95	X	-0.14												
	231	40.95		-0.14												
	292	40.91		-0.20												
	232	40.92		-0.47												
	363	40.70		-0.61												
	420	40.83		-0.63												
	371	40.69		-0.63												
	450	40.52		-0.99												
	309	40.41		-1.19												
	324	40.05	R	-3.04												
	428	38.69	s	-4.86												
Meth: 020.40 PCT																
Total Phosphate																
Automated	247	41.15	1.92													
	105	41.06	R	1.87												
	027	40.90		.60												
	096	40.88		.58												
Avg	40.80															
409	40.69			-0.61												
456	40.69			-0.64												
042	40.66			-0.81												
035	40.65			-0.83												
095	40.10	s	-3.93													
Meth: 020.50 PCT																
Total Phosphate																
ICP	426	46.84	s	2.52												
	114	46.50		2.36												
	422	46.31		2.27												
	393	45.91		2.08												
	455	44.95		1.64												
	452	43.50		.96												
	234	43.36	R	.94												
	255	43.24		.83												
	086	42.95		.72												
	322	42.78		.62												
	460	42.13		.31												
	406	41.63		.08												
Avg	41.33															
419	41.32			-0.11												
090	41.22			-0.12												
137	41.16			-0.14												
247	41.15			-0.15												
105	41.07			-0.20												
402	41.04			-0.20												
105	41.06			-0.22												
Meth: 020.99 PCT																
Total Phosphate																
Other	455	44.95	R	3.47												
	322	42.78		1.47												
Avg	41.19															
137	41.16			-0.02												
258	40.80			-0.36												
211	40.00			-1.09												
443	22.24	s	-17.56													
Meth: 020.XX PCT																
Total Phosphate																
ICP	444	41.02		-0.22												
	231	40.95		-0.24												
	416	40.95	X	-0.24												
	292	40.91		-0.26												
	027	40.90		-0.27												
	096	40.88		-0.28												
	232	40.92		-0.28												
	470	40.86		-0.28												
	258	40.80		-0.31												
	420	40.83		-0.32												
	363	40.70		-0.36												
	409	40.69		-0.36												
	371	40.69		-0.36												
	456	40.69		-0.37												
	042	40.66		-0.38												
	035	40.65		-0.38												
	450	40.52		-0.45												
	309	40.41		-0.50												
	095	40.10		-0.64												
	211	40.00		-0.69												
	324	40.05	R	-0.86												
	432	39.57		-0.91												
	307	39.40		-0.97												
	428	38.69	R	-1.33												
	389	38.00		-1.63												
	041	35.73		-2.69												
	443	22.24	s	-9.06												
Meth: 030.10 PCT																
Insoluble Phosphate																
Grav Quimociac	090	4.28		-0.71												
Meth: 030.40 PCT																
Insoluble Phosphate																
Automated	409	4.55		.88												
Avg	4.46															

* 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
Meth: 030.40 PCT											
Insoluble Phosphate											
Automated											
096	4.37	-.86									
Meth: 030.50 PCT											
Insoluble Phosphate											
ICP											
452	8.22	S .00									
Meth: 030.99 PCT											
Insoluble Phosphate											
Other											
247	4.54	-.71									
Meth: 030.XX PCT											
Insoluble Phosphate											
ICP											
452	8.22	s 29.86									
409	4.55	.96									
247	4.54	.83									
Avg	4.43										
096	4.37	-.58									
090	4.28	-1.25									
Meth: 040.10 PCT											
InDir Available Phos											
Grav Quim											
090	36.94	.00									
Meth: 040.20 PCT											
Dir Available Phosph											
Spectrometric											
030	41.48	1.27									
Avg	37.73										
363	36.52	-.41									
419	35.19	-.85									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.10 PCT											
Dir Available Phosph											
Grav Quimociac											
211	39.76	2.13									
105	38.76	1.43									
072	37.84	.79									
022	37.45	.51									
055	37.06	.40									
009	36.78	.10									
Avg	36.72										
086	36.45	-.20									
260	36.18	-.38									
131	36.02	-.50									
040	35.66	-.75									
185	35.38	-.94									
102	35.28	-1.07									
177	34.79	-1.36									
Meth: 041.20 PCT											
Dir Available Phosph											
Spectrometric											
030	41.48	1.27									
Avg	37.73										
363	36.52	-.41									
419	35.19	-.85									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
029	39.82	1.02									
072	38.91	.43									
095	38.34	.12									

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index		
Meth: 050.51 PCT													
Soluble Potash													
ICP (Citrate)	360	2.05	.62	Meth: 060.00 PCT									
009	2.06 X	1.48	354	2.03	.51	Free Water					443	7.95 s	31.42
Avg	1.94		325	2.01	.37	456	1.75	1.17	Meth: 101.30 PCT				
389	1.93	-.18	Avg	1.94		096	1.74	1.06	Acid Soluble Calcium				
096	1.85	-.53	131	1.94	-.08	363	1.65	.63	ICP				
Meth: 050.60 PCT													
Soluble Potash													
Flame (Oxalate)	460	1.75	1.05	416	1.35 X	-.86	Meth: 101.99 PCT						
460	1.72		389	1.93	-.15	007	1.34	-.89	Acid Soluble Calcium				
309	1.68	-.63	402	1.87	-.40	419	1.31	-1.04	Other				
Meth: 050.61 PCT													
Soluble Potash													
Flame (Citrate)	018	2.24	1.28	Meth: 101.00 PCT									
Avg	1.96		024	1.86	-.46	Acid Soluble Calcium							
035	1.78	-.81	035	1.78	-.82	AA							
Meth: 050.99 PCT													
Soluble Potash													
Other	360	2.05	1.40	460	1.75	-1.00	Meth: 121.00 PCT						
325	2.01	.73	309	1.68	-1.33	309	1.63	-1.72	Acid Soluble Magnesi				
Avg	1.96		018	2.24	1.28	030	1.63	-1.72	AA				
131	1.94	-.36	Avg	1.96		Meth: 101.30 PCT							
232	1.94	-.45	024	1.86	-.46	Acid Soluble Calcium							
402	1.87	-1.29	035	1.78	-.81	ICP							
Meth: 050.99 PCT													
Soluble Potash													
Free Water	422	2.37	2.23	443	7.95 S	.00	Meth: 101.99 PCT						
Other	018	2.24	1.53	009	2.06 R	1.35	Acid Soluble Calcium						
Soluble Potash	009	2.06 R	1.35	009	2.11	.90	Meth: 121.30 PCT						
022	1.95	.77	022	1.95	.77	Acid Soluble Magnesi							

* 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														
102	0.89	.49												
420	0.90	.49												
233	0.90	.47												
450	0.90	.43												
419	0.90	.29												
389	0.89	.27												
Avg	0.89													
377	0.88	-.16												
095	0.88	-.29												
096	0.87	-.41												
292	0.87	-.55												
009	0.87	-.69												
433	0.86	-.71												
035	0.85	-.80												
452	0.86 R	-1.03												
232	0.84	-1.11												
360	0.81	-1.81												
086	0.81	-2.07												
Meth: 121.99 PCT														
Acid Soluble Magnesi														
Other														
460	0.89	.98												
137	0.85	.22												
Avg	0.84													
042	0.77	-1.22												
Meth: 121.30 PPM														
Arsenic														
ICP														
368	25.55	1.87												
450	21.50	.35												
037	21.40	.32												
009	21.26	.21												
Avg	20.73													
233	19.70	-.44												
247	18.00	-1.06												
232	17.70	-1.20												
102	14.67 R	-2.47												
444	5.11 s	-6.03												
Meth: 151.99 PPM														
Arsenic														
Other														
231	20.33	.85												
409	18.55	.39												
Avg	17.14													
086	12.53	-1.28												
Meth: 151.30 PPM														
Arsenic														
ICP														
368	25.55	1.87												
450	21.50	.35												
037	21.40	.32												
009	21.26	.21												
Avg	20.73													
233	19.70	-.44												
247	18.00	-1.06												
232	17.70	-1.20												
102	14.67 R	-2.47												
444	5.11 s	-6.03												
Meth: 144.01 PCT														
Sulfur														
Gravimetric														
444	1.87	-1.51												
Meth: 144.02 PCT														
Sulfur														
Gravimetric														
292	2.06	.71												
Meth: 144.70 PCT														
Sulfur														
Spectrometric														
409	1.93	.71												
Meth: 144.99 PCT														
Sulfur														
Other														
035	2.29	2.65												
255	2.11	1.08												
037	2.05	.58												
450	2.05	.55												
419	2.04	.50												
422	2.04	.45												
389	2.03	.42												
Avg	1.98													
354	1.98	.28												
102	1.98	.22												
296	1.98	.22												
Avg	1.97													
368	1.96	-.34												
028	1.95	-.43												
086	1.92	-.66												
452	1.91	-.66												
137	1.91	-.72												
105	1.91	-.76												
409	1.93	-.77												
027	1.90	-1.07												
096	1.89	-1.08												
232	1.88	-1.12												
444	1.87	-1.32												
307	1.82	-2.01												
360	1.50 s	-5.92												
009	0.20 s	-22.35												
Meth: 151.00 PPM														
Arsenic														
Atomic Absorption														
136	17.50	.71												
Meth: 144.01 PCT														
Sulfur														
Gravimetric														
095	2.33 s	5.26												
043	2.07	1.44												
233	2.02	.99												
102	1.98	.32												
296	1.98	.25												
Avg	1.97													
028	1.95	-.49												
105	1.91	-.87												

* 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			
Meth: 165.00 PCT														
Acid Soluble Boron														
Spectrometric														
055	0.050	-.71										Meth: 191.30 PPM		
Meth: 165.99 PCT														
Acid Soluble Boron														
Other														
231	0.050	1.56										Chromium		
009	0.040	1.01										419	546.00	.14
422	0.030	.48										Avg	540.69	
354	0.026 R	.25										409	531.50	-.33
Avg	0.021											231	520.13	-.54
389	0.018	-.17										086	515.40	-.84
086	0.003	-.95										368	506.50	-.91
409	0.003	-.97										452	503.00	-1.01
232	0.003	-.97										232	463.50	-2.02
Meth: 165.XX PCT														
Acid Soluble Boron														
231	0.050	1.64										444	87.60 s	-11.85
055	0.050 R	1.62										Meth: 202.00 PPM		
009	0.040	1.04										Acid Soluble Cobalt		
422	0.030	.48										AA		
354	0.026	.24										136	22.50 S	.00
Avg	0.022											Meth: 202.30 PPM		
389	0.018	-.21										Acid Soluble Cobalt		
086	0.003	-1.05										ICP		
409	0.003	-1.07										096	10.50	1.17
232	0.003	-1.07										450	10.40	1.10
Meth: 181.00 PPM														
Cadmium														
363	74.80	.94										009	10.35	1.07
Avg	72.65											037	9.88	.84
136	70.50	-.79										035	9.50	.66
Meth: 181.30 PPM														
Cadmium														
247	74.50	1.29										452	8.62	.22
037	73.01	1.03										086	8.59	.20
102	72.61	.97										Avg	8.18	
096	72.00	.87										247	7.10	-.57
086	70.78	.66										102	6.50	-.87
450	70.15	.53										232	6.27	-.94
009	67.68	.28										419	6.00	-1.08
035	68.40	.22										422	4.43	-1.85
Avg	67.15											Meth: 191.99 PPM		
452	64.30	-.61										Chromium		
368	61.60	-.98										409	531.50	1.07
232	60.61	-1.16										Avg	525.82	
233	60.35	-1.19										231	520.13	-.60
419	57.00	-1.78										Meth: 191.30 PPM		
444	13.10 s	-9.46										Chromium		
Meth: 181.99 PPM														
Cadmium														
409	76.50	.93										450	745.50 s	6.08
Avg	75.22											035	593.00	1.37
231	73.93	-.80										096	587.50	1.22
Meth: 181.XX PPM														
Cadmium														
409	76.50	1.33										247	574.00	.87
363	74.80	1.06										037	568.28	.77
247	74.50	.98										102	561.68	.65
231	73.93	.89										009	558.50	.56
037	73.01	.73										Meth: 191.99 PPM		
102	72.61	.67										Chromium		
096	72.00	.58										450	745.50 s	6.08
086	70.78	.38										035	593.00	1.37
136	70.50	.31										096	587.50	1.22
450	70.15	.24										247	574.00	.87
Avg	68.75											037	568.28	.77
035	68.40	-.07										102	561.68	.65
Meth: 190.00 PCT														
Water Soluble Chlori														
029	0.86	1.21										009	558.50	.47
422	0.81	.59										419	546.00	.07
043	0.80	.46										Avg	543.40	
Avg	0.76											086	515.40	-.84
028	0.72 R	-.78										368	506.50	-.91
055	0.68	-1.08										452	503.00	-1.00
102	0.67	-1.15										232	463.50	-1.95
Meth: 190.99 PCT														
Water Soluble Chlori														
455	3.53 S	122.65										444	87.60 s	-11.12
009	0.71	.83										Meth: 191.30 PPM		
Avg	0.69											Chromium		
460	0.67	-.90										Other		
368	0.18 S	-22.40										409	531.50	1.07
Meth: 190.XX PCT														
Water Soluble Chlori														
455	3.53 s	36.85										Avg	525.82	
029	0.86	1.55										231	520.13	-.60
422	0.81	.90										Meth: 191.99 PPM		
043	0.80	.77										Chromium		
Avg	0.74											450	745.50 s	6.08
009	0.71	-.49										035	593.00	1.37
028	0.72 R	-.59										096	587.50	1.22
055	0.68	-.84										247	574.00	.87
Meth: 191.30 PPM														
Chromium														
450	745.50 s	6.08										037	568.28	.77
035	593.00	1.37										102	561.68	.65
096	587.50	1.22										009	558.50	.56
247	574.00	.87										Meth: 202.99 PPM		
037	568.28	.77										Acid Soluble Cobalt		
102	561.68	.65										Other		
009	558.50	.56										409	7.48	1.12
Meth: 202.30 PPM														
Acid Soluble Cobalt														
096	10.50	1.17										Avg	7.32	
450	10.40	1.10										231	7.17	-.50
009	10.35	1.07										Meth: 202.99 PPM		
037	9.88	.84										Acid Soluble Cobalt		
035	9.50	.66										Other		
452	8.62	.22										409	7.48	1.12
086	8.59	.20										Avg	7.32	
Avg	8.18											231	7.17	-.50
247	7.10	-.57										Meth: 202.99 PPM		
102	6.50	-.87										Acid Soluble Cobalt		
232	6.27	-.94										Other		
419	6.00	-1.08										409	7.48	1.12
422	4.43	-1.85										Avg	7.32	
Meth: 202.99 PPM														
Acid Soluble Cobalt														
409	7.48	1.12										Meth: 202.99 PPM		
Avg	7.32											Acid Soluble Cobalt		
231	7.17	-.50										Other		
Meth: 202.99 PPM														
Acid Soluble Cobalt														
409	7.48	1.12										Meth: 202.99 PPM		
Avg	7.32											Acid Soluble Cobalt		
231	7.17	-.50										Other		

* 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																	
Acid Soluble Cobalt																	
136	22.50 s	7.61													Meth: 241.XX PCT		
096	10.50	1.31													Acid Soluble Iron		
450	10.40	1.24													ICP	354	
009	10.35	1.21													095	0.0082	-0.20
037	9.88	.96													433	0.0081	-0.37
035	9.50	.76													Avg	0.0084	
452	8.62	.30													231	0.0084	-0.42
086	8.59	.28													095	0.0082	-0.20
Avg	8.06														433	0.0081	-0.39
409	7.48	-0.35													232	0.0081	-0.44
231	7.17	-0.47													307	0.0080	-0.49
247	7.10	-0.55													009	0.0079	-0.59
102	6.50	-0.87													086	0.0082	-0.65
232	6.27	-0.94													368	0.0078	-0.69
419	6.00	-1.08													233	0.0078	-0.76
422	4.43	-1.91													389	0.0078	-0.80
Meth: 221.00 PCT																	
Acid Soluble Copper																	
Atomic Absorption																	
460	0.0088	.87													360	0.0075	-0.97
Avg	0.0087														419	0.0070	-1.58
043	0.0087	-0.87													452	0.0069	-1.70
Meth: 221.30 PCT																	
Acid Soluble Copper																	
ICP																	
292	0.0100	1.75													420	0.0050 S	-3.80
450	0.0100	1.75													420	0.0000 S	-9.35
354	0.0095	1.32													Meth: 221.99 PCT		
247	0.0095	1.17													Acid Soluble Copper		
402	0.0094	1.14													Other		
037	0.0093	.96													137	0.0400 S	64.36
422	0.0085	.56													042	0.0083	1.15
255	0.0086	.39													231	0.0084	.54
035	0.0087	.33													Avg	0.0081	
102	0.0086	.30													409	0.0077	-0.95
Avg	0.0084														Meth: 221.XX PCT		
Acid Soluble Copper																	
ICP																	
292	0.0100	1.75													028	0.78 R	3.15
450	0.0100	1.75													043	0.80	.95
354	0.0095	1.32													460	0.80	.95
247	0.0095	1.17													Avg	0.78	
402	0.0094	1.14													296	0.78	-0.77
037	0.0093	.96													371	0.77	-1.06
422	0.0085	.56													030	0.00 S	-59.98
255	0.0086	.39													Meth: 241.00 PCT		
035	0.0087	.33													Acid Soluble Iron		
102	0.0086	.30													Atomic Absorption		
Avg	0.0084														028	0.78 R	3.15
Meth: 221.30 PCT																	
Acid Soluble Copper																	
ICP																	
292	0.0100	1.75													043	0.80	.95
450	0.0100	1.75													460	0.80	.95
354	0.0095	1.32													Avg	0.78	
247	0.0095	1.17													296	0.78	-0.77
402	0.0094	1.14													371	0.77	-1.06
037	0.0093	.96													030	0.00 S	-59.98
422	0.0085	.56													Meth: 241.30 PCT		
255	0.0086	.39													Acid Soluble Iron		
035	0.0087	.33													ICP		
102	0.0086	.30													255	0.83	1.79
Avg	0.0084														035	0.83	1.72
Meth: 221.99 PCT																	
Acid Soluble Copper																	
ICP																	
292	0.0100	1.75													354	0.81	1.42
450	0.0100	1.75													Meth: 241.30 PCT		
354	0.0095	1.32													Acid Soluble Iron		
247	0.0095	1.17													ICP		
402	0.0094	1.14													255	0.83	1.72
037	0.0093	.96													035	0.83	1.72
422	0.0085	.56													354	0.81	1.42
255	0.0086	.39													Meth: 241.30 PCT		
035	0.0087	.33													Acid Soluble Iron		
102	0.0086	.30													ICP		
Avg	0.0084														255	0.83	1.72
Meth: 241.00 PCT																	
Acid Soluble Copper																	
ICP																	
292	0.0100	1.75													035	0.83	1.72
450	0.0100	1.75													354	0.81	1.42
354	0.0095	1.32													Meth: 241.30 PCT		
247	0.0095	1.17													Acid Soluble Iron		
402	0.0094	1.14													ICP		
037	0.0093	.96													255	0.83	1.72
422	0.0085	.56													035	0.83	1.72
255	0.0086	.39													354	0.81	1.42
035	0.0087	.33													Meth: 241.30 PCT		
102	0.0086	.30													Acid Soluble Iron		
Avg	0.0084														ICP		
Meth: 241.30 PCT																	
Acid Soluble Iron																	
ICP																	
422	0.81	1.28													137	0.81	.00
247	0.80	1.09													Meth: 241.XX PCT		
102	0.78	.91													Acid Soluble Iron		
233	0.77	.63													ICP		
368	0.75 R	.55													422	0.81	1.24
409	0.77	.52													247	0.80	1.14
037	0.76	.45													028	0.78 R	1.09
420	0.76	.43													247	0.77	.95
377	0.76	.40													043	0.80	.95
389	0.75	.23													460	0.80	.95
096	0.75	.16													Avg	0.75 R	.50
Avg	0.74														368	0.75 R	.50
131	0.74	-0.12													233	0.77	.48
419	0.73	-0.23													371	0.77	.46
292	0.72	-0.34													409	0.77	.38
009	0.73 R	-0.47													037	0.76	.30
402	0.71	-0.53													420	0.76	.28
042	0.71	-0.53													377	0.76	.25
041	0.71	-0.54													389	0.75	.08
360	0.71	-0.57													Avg	0.75	
095	0.70	-0.65													402	0.73 R	
433	0.70	-0.81													402	0.70	
450	0.70	-0.87													009	0.70	
452	0.69	-0.99													452	0.69	
086	0.69	-0.99													086	0.69	
307	0.67	-1.32													307	0.67	
232	0.61	-2.53													232	0.61	
Meth: 241.99 PCT																	
Acid Soluble Iron																	
Other																	
137	0.81	.00													360	0.71	-0.73
Meth: 241.XX PCT																	
Acid Soluble Iron																	
ICP																	
255	0.83	1.79													095	0.70	-0.81
035	0.83	1.72													433	0.70	-0.97
354	0.81	1.42													450	0.70	-1.03
Meth: 241.30 PCT																	
Acid Soluble Iron																	
ICP																	
255	0.83	1.79													452	0.69	-1.16
035	0.83	1.72													086	0.69	-1.16
354	0.81	1.42													307	0.67	-1.49
Meth: 241.XX PCT																	
Acid Soluble Iron																	
ICP																	
255	0.83	1.79													232	0.61	-2.71
035	0.83	1.72													030	0.00 S	-14.35
354	0.81	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
Meth:	251.00 PPM		Meth:	261.30 PCT		Meth:	289.30 PPM		Meth:	291.30 PPM	
Lead			Acid Soluble Manganese			Molybdenum			Nickel		
Atomic Absorption			ICP			ICP			ICP		
136	22.50 S	.00	247	0.070	1.53	009	4.82	-2.09	247	83.10	1.08
Meth:	251.30 PPM		422	0.065	1.16	444	0.95 s	-6.55	096	80.50	.88
Lead			041	0.066	.86	Meth:	289.99 PPM		009	80.82	.82
ICP			354	0.066	.83	Molybdenum			037	80.14	.74
450	6.50	1.61	102	0.066	.71	Other			102	77.69	.52
368	5.80	1.21	096	0.065	.66	028	8.45	.74	035	74.90	.24
086	4.22	.42	035	0.063	.15	231	8.08	.61	Avg	74.08	
Avg	3.52		292	0.062		409	7.11	.24	086	72.61	-.34
232	3.44	-.36	009	0.061	-.39	Avg	6.48		368	71.00	-.37
452	2.50	-.54	419	0.061	-.44	422	2.29	-1.59	233	65.05	-1.09
419	2.30	-.66	131	0.060	-.47	Meth:	289.99 PPM		452	64.76	-1.12
102	2.43	-.71	389	0.058	-1.02	Molybdenum			232	64.51	-1.15
444	0.98	-1.38	086	0.057	-1.16	028	8.45	1.24	419	61.00	-1.57
Meth:	251.99 PPM		232	0.052	-2.07	231	8.08	1.00	444	21.33 s	-6.33
Lead			368	0.049 s	-3.12	450	8.00	.94	Meth:	291.99 PPM	
Other			Meth:	281.99 PPM		247	7.80	.81	Nickel		
409	3.29	.88	Mercury			433	7.19	.40	Other		
Avg	3.10		Other			409	7.11	.35	231	89.77	.86
231	2.91	-.85	086	0.52	.71	452	6.67	.11	Avg	83.11	
Meth:	251.99 PPM		Meth:	289.30 PPM		233	6.71	.09	409	76.45	-.87
Lead			Molybdenum			232	6.64	.05	Meth:	301.99 PPM	
136	22.50 s	11.36	ICP			Avg	6.59		Selenium		
450	6.50	1.85	450	8.00	1.58	035	6.49	-.07	231	5.83	1.95
368	5.80	1.41	247	7.80	1.35	086	6.45	-.13	232	3.06	.47
086	4.22	.51	433	7.19	.65	102	6.46	-.14	Avg	2.18	
232	3.44	.40	452	6.67	.18	419	5.70	-.60	368	1.75 R	-.42
Avg	3.44		233	6.71	.12	368	5.45 R	-.80	409	1.18	-.53
409	3.29	-.10	232	6.64	.07	009	4.82	-1.19	296	1.05	-.61
231	2.91	-.32	Avg	6.63		422	2.29	-2.88	450	1.00	-.63
452	2.50	-.56	035	6.49	-.17	444	0.95 s	-3.77	086	0.96	-.65
419	2.30	-.69	086	6.45	-.25	Meth:	291.30 PPM		Meth:	311.30 PCT	
102	2.43	-.76	102	6.46	-.27	Nickel			Sodium		
444	0.98	-1.50	419	5.70	-1.07	ICP			Flame Photometric		
			368	5.45 R	-1.42	450	87.00	1.59	292	0.41	.00

* 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

Meth: 311.99 PCT

Sodium	
Other	
422	0.55 S 6.47
307	0.43 1.03
009	0.43 .52
086	0.43 .50
232	0.43 .19
Avg	0.42
035	0.42 -.36
102	0.41 -1.94

Meth: 321.30 PCT

Acid Soluble Zinc	
ICP	
037	0.061 1.02
354	0.060 .82
102	0.057 .55
247	0.058 .51
095	0.056 .28
009	0.056 .25
096	0.056 .22
Avg	0.054
131	0.053 -.22
452	0.053 -.24
233	0.053 -.28
419	0.053 -.29
086	0.053 -.30
035	0.052 -.41
433	0.053 -.41
232	0.050 -.69
292	0.050 -.73
389	0.049 -1.01
041	0.047 -1.31
255	0.042 -2.07
444	0.009 s -7.46

Meth: 321.XX PCT

Acid Soluble Zinc	
037	0.061 1.04
137	0.060 .91
354	0.060 .82
028	0.059 .70
102	0.057 .54
247	0.058 .49
296	0.055 .36
231	0.056 .25
095	0.056 .23
009	0.056 .20
096	0.056 .16
409	0.055 .11
Avg	0.055
131	0.053 -.32
452	0.053 -.34
233	0.053 -.37
043	0.054 -.37
419	0.053 -.39
086	0.053 -.39
433	0.053 -.50
035	0.052 -.52
232	0.050 -.83
292	0.050 -.88
389	0.049 -1.18
041	0.047 -1.51
255	0.042 -2.35
444	0.009 s -8.27

Meth: 311.XX PCT

Sodium	
422	0.55 s 9.92
307	0.43 1.58
009	0.43 .79
086	0.43 .77
232	0.43 .29
Avg	0.42
035	0.42 -.57
292	0.41 -1.18
102	0.41 R -2.98

Meth: 321.99 PCT

Acid Soluble Zinc	
Other	
137	0.060 1.22
Avg	0.057
231	0.056 -.54
409	0.055 -.84

Meth: 321.XX PCT

Acid Soluble Zinc	
428	0.657 s 205.74
028	0.059 1.05
Avg	0.056
296	0.055 -.73
043	0.054 -.93

Meth: 321.00 PCT

Acid Soluble Zinc	
Atomic Absorption	
428	0.657 S 205.74
028	0.059 1.05
Avg	0.056
296	0.055 -.73
043	0.054 -.93

Meth: 321.99 PCT

Acid Soluble Zinc	
Other	
137	0.060 1.22
Avg	0.057
231	0.056 -.54
409	0.055 -.84

Meth: 321.XX PCT

Acid Soluble Zinc	
ICP	
428	0.657 s 108.13
450	0.080 s 4.16
368	0.072 2.81
422	0.065 R 1.90
402	0.062 1.20

* 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					