

- Pass 1 Results for 71 Labs - - Pass 2 Results for 71 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	9	4.84	0.14	0.09	9	4.84	0.14	0.09
Ammoniacal Nitrogen, Other		001.99	10	4.96	0.23	0.03	10	4.96	0.23	0.03
Method Group 001.XX PCT			19	4.91	0.20	0.06	17	4.93	0.19	0.04
Nitrate Nitrogen, Other		002.99	2	0.00	0.00	0.00	2	0.00	0.00	0.00
Ammon & Nitrate N, Devarda	892.01	009.10	1	4.98	0.11	0.15	1	4.98	0.11	0.15
Total Nitrogen, Modified Comprehensive	978.02	010.11	8	4.98	0.15	0.05	8	4.98	0.15	0.05
Total Nitrogen, Salicylic	955.04D	010.12	2	5.08	0.03	0.02	2	5.08	0.03	0.02
Total Nitrogen, Combustion		010.60	48	5.05	0.14	0.07	46	5.05	0.13	0.05
Total Nitrogen, Other		010.99	5	5.04	0.11	0.07	5	5.04	0.11	0.07
Method Group 010.XX PCT			63	5.04	0.14	0.06	61	5.04	0.13	0.05
Total Phosphate, Grav Quimociac	962.02	020.10	5	5.45	0.15	0.07	5	5.45	0.15	0.07
Total Phosphate, Spectrometric	958.01	020.20	14	5.49	0.08	0.04	14	5.49	0.08	0.04
Total Phosphate, Automated	978.01	020.40	7	5.50	0.16	0.08	7	5.50	0.16	0.08
Total Phosphate, ICP		020.50	13	5.45	0.24	0.11	12	5.45	0.24	0.08
Total Phosphate, Other		020.99	2	5.47	0.22	0.05	2	5.47	0.22	0.05
Method Group 020.XX PCT			43	5.47	0.19	0.07	42	5.47	0.19	0.06
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Insoluble Phosphate, Spectrometric	963.03C	030.20	2	0.06	0.05	0.01	2	0.06	0.05	0.01
Insoluble Phosphate, Automated	978.01	030.40	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Insoluble Phosphate, ICP		030.50	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Method Group 030.XX PCT			5	0.05	0.03	0.00	4	0.05	0.03	0.00
InDir Available Phosphate, Grav Quim	960.02	040.10	1	5.46	0.04	0.06	1	5.46	0.04	0.06
InDir Available Phosphate, Spectrometri	960.02	040.20	1	5.43	0.04	0.05	1	5.43	0.04	0.05
InDir Available Phosphate, Automated	960.02	040.40	1	5.18	0.06	0.08	1	5.18	0.06	0.08
InDir Available Phosphate, ICP		040.50	1	5.27	0.00	0.00	1	5.27	0.00	0.00
InDir Available Phosphate, Other		040.99	1	5.49	0.00	0.00	1	5.49	0.00	0.00
Method Group 040.XX PCT			5	5.36	0.13	0.04	5	5.36	0.13	0.04
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	13	5.32	0.18	0.05	12	5.34	0.18	0.04
Dir Available Phosphate, Spectrometric	960.03D	041.20	4	5.30	0.16	0.04	4	5.30	0.16	0.04
Dir Available Phosphate, Automated	978.01	041.40	3	5.43	0.05	0.08	3	5.43	0.05	0.08
Dir Available Phosphate, ICP		041.50	10	5.50	0.18	0.10	9	5.54	0.15	0.06
Dir Available Phosphate, EDTA Extract	993.01	041.60	7	5.39	0.09	0.07	7	5.39	0.09	0.07
Dir Available Phosphate, Other		041.99	2	5.35	0.08	0.03	2	5.35	0.08	0.03
Method Group 041.XX PCT			40	5.38	0.18	0.07	38	5.39	0.17	0.05
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	2.20	1.75	0.06	3	2.20	1.75	0.06
Water Soluble Phosphate, ICP		048.50	1	0.90	0.01	0.02	1	0.90	0.01	0.02
Method Group 048.XX PCT			4	1.88	1.60	0.05	4	1.88	1.60	0.05
Soluble Potash, STPB Oxalate	958.02	050.00	13	5.53	0.14	0.06	12	5.53	0.14	0.05
Soluble Potash, STPB Citrate	969.04	050.10	1	5.52	0.29	0.41	1	5.52	0.29	0.41

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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
Soluble Potash, AA (Oxalate) .....		050.30	7	5.41	0.19	0.12	6	5.44	0.16	0.06
Soluble Potash, AA (Citrate) .....		050.31	1	5.25	0.03	0.04	1	5.25	0.03	0.04
Soluble Potash, ICP (Oxalate) .....		050.50	7	5.68	0.21	0.09	7	5.68	0.21	0.09
Soluble Potash, ICP (Citrate) .....		050.51	8	5.59	0.25	0.07	8	5.59	0.25	0.07
Soluble Potash, Flame (Oxalate) .....	983.02(a)	050.60	5	5.67	0.17	0.04	5	5.67	0.17	0.04
Soluble Potash, Flame (Citrate) .....	983.02(b)	050.61	10	5.64	0.15	0.05	10	5.64	0.15	0.05
Soluble Potash, Other .....		050.99	15	5.65	0.20	0.08	14	5.64	0.20	0.07
Method Group 050.XX PCT			67	5.59	0.20	0.08	64	5.59	0.20	0.06
Free Water, Vacuum Oven .....	965.08B	060.00	6	1.49	0.26	0.08	6	1.49	0.26	0.08
Acid Soluble Calcium, AA .....	945.04	101.00	1	8.00	0.13	0.18	1	8.00	0.13	0.18
Acid Soluble Calcium, ICP .....		101.30	17	7.95	0.48	0.20	16	7.92	0.46	0.15
Acid Soluble Calcium, Titrimetric .....	945.03	101.70	1	8.13	0.08	0.11	1	8.13	0.08	0.11
Method Group 101.XX PCT			19	7.96	0.46	0.20	18	7.93	0.43	0.15
Acid Soluble Magnesium, AA .....	984.01	121.00	9	3.01	0.14	0.07	9	3.01	0.14	0.07
Acid Soluble Magnesium, ICP .....		121.30	33	3.08	0.14	0.07	31	3.07	0.12	0.05
Acid Soluble Magnesium, Other .....		121.99	2	3.14	0.15	0.04	2	3.14	0.15	0.04
Method Group 121.XX PCT			44	3.07	0.14	0.07	42	3.06	0.13	0.06
Water Soluble Magnesium, AA .....		131.00	1	2.44	0.10	0.14	1	2.44	0.10	0.14
Water Soluble Magnesium, ICP .....		131.30	4	2.61	0.26	0.03	4	2.61	0.26	0.03
Method Group 131.XX PCT			5	2.57	0.24	0.05	5	2.57	0.24	0.05
Sulfur, Gravimetric .....	980.02a	144.01	2	14.55	0.11	0.03	2	14.55	0.11	0.03
Sulfur, Other .....		144.99	8	13.86	2.41	0.14	7	13.86	2.58	0.09
Method Group 144.XX PCT			10	14.00	2.16	0.12	9	14.01	2.28	0.08
Arsenic, ICP .....		151.30	9	6.67	2.84	0.31	8	6.69	3.02	0.22
Arsenic, Other .....		151.99	1	6.33	0.03	0.04	1	6.33	0.03	0.04
Method Group 151.XX PPM			10	6.64	2.69	0.28	8	6.83	2.96	0.11
Acid Soluble Boron, Spectrometric .....	982.01	165.00	4	1.466	0.069	0.067	4	1.466	0.069	0.067
Acid Soluble Boron, Other .....		165.99	25	1.454	0.102	0.048	23	1.444	0.091	0.034
Method Group 165.XX PCT			30	1.454	0.105	0.064	28	1.449	0.088	0.045
Water Soluble Boron, Other .....		171.99	1	1.480	0.000	0.000	1	1.480	0.000	0.000
Cadmium, Atomic Absorption .....		181.00	1	4.20	0.14	0.20	1	4.20	0.14	0.20
Cadmium, ICP .....		181.30	11	2.83	0.70	0.31	10	2.93	0.58	0.14
Cadmium, Other .....		181.99	1	3.28	0.10	0.14	1	3.28	0.10	0.14
Method Group 181.XX PPM			13	2.97	0.74	0.29	12	3.06	0.64	0.15
Water Soluble Chlorine, Other .....		190.99	1	0.52	0.00	0.00	1	0.52	0.00	0.00
Chromium, ICP .....		191.30	13	142.18	21.24	10.71	12	142.19	20.17	6.44
Method Group 191.XX PPM			13	142.18	21.24	10.71	12	142.19	20.17	6.44
Acid Soluble Cobalt, ICP .....	965.11	202.30	8	50.86	19.08	2.72	8	50.86	19.08	2.72
Acid Soluble Cobalt, Other .....		202.99	2	35.16	16.16	0.43	2	35.16	16.16	0.43

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Method Group 202.XX PPM			10	47.72	19.24	2.26	10	47.72	19.24	2.26
Acid Soluble Copper, Atomic Absorption	975.01	221.00	9	0.9950	0.1853	0.0406	9	0.9950	0.1853	0.0406
Acid Soluble Copper, ICP		221.30	34	1.0106	0.2173	0.0527	33	1.0049	0.2173	0.0482
Acid Soluble Copper, Other		221.99	2	1.0125	0.0450	0.0450	2	1.0125	0.0450	0.0450
Method Group 221.XX PCT			45	1.0076	0.2055	0.0499	44	1.0032	0.2051	0.0465
Acid Soluble Iron, Atomic Absorption	980.01	241.00	1	0.27	0.00	0.00	1	0.27	0.00	0.00
Acid Soluble Iron, ICP		241.30	15	0.27	0.04	0.01	15	0.27	0.04	0.01
Method Group 241.XX PCT			16	0.27	0.04	0.01	16	0.27	0.04	0.01
Lead, ICP		251.30	9	9.67	4.50	0.72	8	9.68	4.76	0.45
Lead, Other		251.99	1	4.09	0.20	0.28	1	4.09	0.20	0.28
Method Group 251.XX PPM			10	9.12	4.59	0.67	9	9.06	4.82	0.43
Acid Soluble Manganese, AA	972.02a	261.00	6	2.105	0.123	0.067	6	2.105	0.123	0.067
Acid Soluble Manganese, AA	972.02b	261.11	1	1.969	0.028	0.040	1	1.969	0.028	0.040
Acid Soluble Manganese, ICP	972.02a	261.30	30	2.074	0.185	0.044	30	2.074	0.185	0.044
Acid Soluble Manganese, Other		261.99	4	1.957	0.306	0.047	3	1.916	0.348	0.009
Method Group 261.XX PCT			41	2.064	0.191	0.047	40	2.064	0.193	0.044
Mercury, Atomic Absorption		281.00	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Mercury, ICP		281.30	1	1.72	0.00	0.00	1	1.72	0.00	0.00
Mercury, Other		281.99	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Method Group 281.XX PPM			3	0.60	0.87	0.00	3	0.60	0.87	0.00
Molybdenum, Atomic Absorption		289.00	1	8.85	0.49	0.70	1	8.85	0.49	0.70
Molybdenum, ICP		289.30	11	10.01	1.93	0.84	9	9.60	1.69	0.33
Molybdenum, Other		289.99	1	2.86	0.11	0.16	1	2.86	0.11	0.16
Method Group 289.XX PPM			13	9.37	2.63	0.77	11	8.92	2.50	0.35
Nickel, Atomic Absorption		291.00	1	175.00	1.41	2.00	1	175.00	1.41	2.00
Nickel, ICP		291.30	11	205.68	23.14	10.53	11	205.68	23.14	10.53
Nickel, Other		291.99	1	154.69	3.34	4.72	1	154.69	3.34	4.72
Method Group 291.XX PPM			13	199.40	26.32	9.43	13	199.40	26.32	9.43
Selenium, ICP		301.30	5	9.33	5.21	0.28	5	9.33	5.21	0.28
Selenium, Other		301.99	3	2.77	0.95	0.23	3	2.77	0.95	0.23
Method Group 301.XX PPM			8	6.87	5.23	0.26	7	6.00	5.00	0.17
Sodium, Other		311.99	5	0.74	0.03	0.01	5	0.74	0.03	0.01
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	9	1.659	0.093	0.059	9	1.659	0.093	0.059
Acid Soluble Zinc, ICP		321.30	34	1.760	0.181	0.057	32	1.743	0.168	0.038
Acid Soluble Zinc, Other		321.99	1	1.950	0.000	0.000	1	1.950	0.000	0.000
Method Group 321.XX PCT			45	1.744	0.173	0.063	42	1.730	0.160	0.041
Water Soluble Zinc, ICP		325.30	1	1.645	0.021	0.030	1	1.645	0.021	0.030

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: 010.12 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>Salicylic</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>		
415	5.03	1.38	416	4.97	.17	455	5.10	.70	029	5.03	-.29	444	5.30	1.99
444	4.99	1.09	034	4.95	.14	Avg	5.08		049	5.04	-.31	393	5.27	1.76
416	4.97	.89	Avg	4.93		415	5.05	-1.00	405	5.02	-.32	456	5.23	1.47
Avg	4.84		234	4.93	-.16	254	4.53 S	-16.42	262	5.01	-.34	255	5.22	1.44
230	4.81	-.22	420	4.86	-.42				040	5.02	-.35	409	5.22	1.42
456	4.82	-.30	456	4.82	-.66	Meth: 010.60 PCT			007	5.05	-.39	230	5.22	1.36
029	4.80	-.35	230	4.81	-.66	<u>Total Nitrogen</u>			325	5.00	-.41	402	5.20	1.18
232	4.80	-.51	029	4.80	-.73	<u>Combustion</u>			360	5.05	-.47	117	5.19	1.10
330	4.70	-1.22	232	4.80	-.78	034	5.55 s	3.89	035	4.99	-.51	247	5.18	1.07
405	4.64	-1.62	330	4.70 R	-1.36	043	5.35	2.35	057	5.01	-.63	073	5.17	.95
Meth: 001.99 PCT			405	4.64 R	-1.67	102	5.18 R	2.26	451	4.97	-.69	460	5.15	.91
<u>Ammoniacal Nitrogen</u>			027	4.43	-2.72	444	5.30	1.93	009	4.96	-.74	426	5.07	.80
<u>Other</u>			368	4.21 s	-3.89	393	5.27	1.70	330	4.95	-.89	406	5.13	.66
393	5.34	1.65	Meth: 002.99 PCT			255	5.22	1.38	131	4.94	-.94	428	5.11	.49
409	5.13	.73	<u>Nitrate Nitrogen</u>			230	5.22	1.29	234	4.93	-.97	354	5.11	.48
105	5.04	.35	<u>Other</u>			402	5.20	1.12	390	4.91	-1.15	041	5.10	.47
096	5.03	.27	232	0.01	.90	117	5.19	1.03	233	4.89	-1.26	360	5.05	.47
371	4.99	.14	Avg	0.00		247	5.18	1.00	232	4.84	-1.70	292	5.10	.44
419	4.97	.02	393	0.00 X	-.83	073	5.17	.88	042	4.90 R	-1.96	455	5.10	.44
Avg	4.96		Meth: 009.10 PCT			426	5.07	.79	368	4.77	-2.19	055	5.09	.43
034	4.95	-.09	<u>Ammon &amp; Nitrate N</u>			406	5.13	.60	023	4.71	-2.73	007	5.05	.39
234	4.93	-.20	<u>Devarda</u>			428	5.11	.42	Meth: 010.99 PCT			027	5.09	.37
420	4.86	-.49	090	4.98	.71	354	5.11	.41	<u>Total Nitrogen</u>			377	5.06	.34
027	4.43	-2.40	Meth: 010.11 PCT			041	5.10	.40	<u>Other</u>			291	5.08	.33
368	4.21 S	-3.38	<u>Total Nitrogen</u>			055	5.09	.37	<u>Other</u>			296	5.07	.31
Meth: 001.XX PCT			<u>Modified Comprehensi</u>			292	5.10	.37	409	5.22	1.76	389	5.07	.31
<u>Ammoniacal Nitrogen</u>			<u>Modified Comprehensi</u>			377	5.06	.32	Avg	5.04		028	5.06	.21
393	5.34	2.15	456	5.23	1.63	027	5.09	.30	137	5.01	-.24	231	5.06	.20
409	5.13	1.05	460	5.15	1.14	291	5.08	.26	371	4.98	-.55	415	5.05	.20
105	5.04	.58	114	5.02	.28	296	5.07	.26	420	5.01	-.69	Avg	5.04	
415	5.03	.54	105	5.01	.19	389	5.07	.26	105	4.96	-.75	177	5.04	-.06
096	5.03	.49	Avg	4.98		028	5.06	.20	Meth: 010.XX PCT			095	5.04	-.07
444	4.99	.34	419	4.96	-.16	231	5.06	.17	<u>Total Nitrogen</u>			106	5.03	-.10
371	4.99	.32	Avg	4.98		Avg	5.05		<u>Total Nitrogen</u>			114	5.02	-.23
419	4.97	.20	029	4.90	-.54	177	5.04	-.13	<u>Total Nitrogen</u>			029	5.03	-.24
			260	4.84	-.99	095	5.04	-.14	<u>Total Nitrogen</u>			034	5.55 s	3.93
			211	4.76	-1.46	106	5.03	-.18	<u>Total Nitrogen</u>			043	5.35	2.40
									<u>Total Nitrogen</u>			102	5.18 R	2.27
									<u>Total Nitrogen</u>			105	5.01	-.25
									<u>Total Nitrogen</u>			105	5.01	-.27

\* 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: 010.XX PCT Total Nitrogen			Meth: 020.20 PCT Total Phosphate			Meth: 020.50 PCT Total Phosphate			Meth: 020.XX PCT Total Phosphate			Meth: 030.20 PCT Insoluble Phosphate		
262	5.01	-.27	<u>Spectrometric</u>			<u>ICP</u>			<u>Total Phosphate</u>			<u>Spectrometric</u>		
049	5.04	-.28	460	5.85 s	4.33	368	5.49	.26	368	5.49	.29	409	0.02	-.87
040	5.02	-.29	405	5.59	1.23	402	5.46	.10	090	5.49	.19	Meth: 030.40 PCT		
325	5.00	-.33	232	5.57	1.02	Avg	5.45		416	5.50	.16	Insoluble Phosphate		
035	4.99	-.44	406	5.56	.88	389	5.45	-.21	247	5.48	.13	<u>Automated</u>		
371	4.98	-.51	231	5.56	.88	255	5.31	-.57	371	5.46	-.12	096	0.04	.00
057	5.01	-.58	363	5.55	.77	247	5.45 R	-.82	041	5.45	-.15	Meth: 030.50 PCT		
420	5.01	-.60	292	5.53	.49	451	5.25	-.86	402	5.46	-.16	Insoluble Phosphate		
451	4.97	-.61	419	5.50	.39	390	5.24	-.86	105	5.43	-.22	<u>ICP</u>		
419	4.96	-.64	416	5.50	.21	444	5.21	-1.02	409	5.44	-.23	255	0.04	.71
009	4.96	-.66	Avg	5.49		393	5.13	-1.33	415	5.42	-.26	Meth: 030.XX PCT		
105	4.96	-.68	371	5.46	-.38	Meth: 020.99 PCT			234	5.44	-.27	Insoluble Phosphate		
330	4.95	-.81	409	5.44	-.64	Total Phosphate			389	5.45	-.29	Avg		
131	4.94	-.85	234	5.44	-.72	<u>Other</u>			177	5.40	-.36	045		
234	4.93	-.89	415	5.42	-.75	455	5.65	.88	042	5.40	-.38	025		
390	4.91	-1.07	177	5.40	-.99	Avg	5.47		255	5.31	-.83	042		
029	4.90	-1.11	420	5.29	-2.40	137	5.28	-.85	420	5.29	-1.00	025		
233	4.89	-1.17	428	5.01 s	-5.61	Meth: 020.XX PCT			137	5.28	-1.01	096		
232	4.84	-1.61	Meth: 020.40 PCT			Total Phosphate			247	5.45 R	-1.07	090		
260	4.84	-1.63	Total Phosphate			<u>Automated</u>			451	5.25	-1.20	409		
042	4.90 R	-1.90	456	5.69	1.30	330	5.95	2.55	390	5.24	-1.20	Meth: 040.10 PCT		
368	4.77	-2.10	035	5.62	.93	460	5.85	2.03	444	5.24	-1.26	InDir Available Phos		
211	4.76	-2.18	105	5.53	.45	426	5.69	1.30	096	5.22	-1.35	<u>Grav Quim</u>		
023	4.71	-2.63	095	5.55	.35	456	5.69	1.21	444	5.21	-1.41	090		
254	4.53 s	-3.96	Avg	5.50		231	5.70	1.20	393	5.13	-1.81	5.46		
Meth: 020.10 PCT			247	5.48	-.21	114	5.66	1.01	428	5.01	-2.45	.71		
Total Phosphate			042	5.40	-.62	455	5.65	.99	Meth: 030.10 PCT			Meth: 040.20 PCT		
<u>Grav Quimociac</u>			096	5.22	-1.79	035	5.62	.89	Insoluble Phosphate			InDir Available Phos		
114	5.66	1.42	Meth: 020.50 PCT			432	5.58	.75	<u>Grav Quimociac</u>			<u>Spectrometri</u>		
090	5.49	.33	Total Phosphate			405	5.59	.63	090			409		
Avg	5.45		<u>ICP</u>			232	5.57	.53	0.03			5.43		
041	5.45	-.14	330	5.95	2.05	406	5.56	.48	.00			-.71		
105	5.43	-.17	426	5.69	1.07	231	5.56	.48	Meth: 030.20 PCT			Meth: 040.40 PCT		
444	5.24	-1.52	231	5.70	1.00	105	5.53	.45	Insoluble Phosphate			InDir Available Phos		
			432	5.58	.63	363	5.55	.42	<u>Spectrometric</u>			<u>Automated</u>		
						095	5.55	.42	405			096		
						292	5.53	.30	0.10			5.18		
									Avg			.71		
									0.06					

\* 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: 040.50 PCT			Meth: 041.20 PCT			Meth: 041.60 PCT			Meth: 041.XX PCT			Meth: 048.XX PCT		
<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Water Soluble Phosph</u>		
<u>ICP</u>			<u>Spectrometric</u>			<u>EDTA Extract</u>								
255	5.27	.71	363	5.51	1.32	073	5.42	.32	027	5.40	.19	420	4.44	1.61
			055	5.33	.28	106	5.41	.21	131	5.42	.14	Avg	1.88	
Meth: 040.99 PCT			Avg 5.30			Avg 5.39			131 5.42 .14			096 1.35 -.33		
<u>InDir Available Phos</u>			419 5.27 -.20			117 5.31 -.93			106 5.41 .08			393 0.90 X -.61		
<u>Other</u>			262 5.10 -1.28			231 5.24 -1.75			009 5.40 .03			363 0.82 -.66		
405	5.49	.00				105	5.09 s	-4.01	Avg 5.39			Meth: 050.00 PCT		
Meth: 040.XX PCT			Meth: 041.40 PCT			Meth: 041.99 PCT			102 5.35 -.26			Soluble Potash		
<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			049 5.36 -.31			<u>STPB Oxalate</u>		
405	5.49	.97	095	5.45	1.17	<u>Other</u>			055 5.34 -.40			114 6.34 s 5.62		
090	5.46	.77	029	5.45	.65				055 5.33 -.46			009 5.78 1.71		
409	5.43	.51	Avg 5.43						117 5.31 -.53			055 5.72 1.33		
Avg 5.36			027 5.40	-.84					377 5.29 -.63			043 5.60 .54		
255 5.27	-.75								105 5.28 -.70			029 5.58 .39		
096 5.18	-1.46		Meth: 041.50 PCT			Meth: 041.XX PCT			419 5.27 -.74			247 5.56 .16		
			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			231 5.24 -.97			296 5.54 .04		
			<u>ICP</u>			<u>Dir Available Phosph</u>			354 5.23 R -1.67			Avg 5.53		
			360 5.75	1.58					262 5.10 -1.76			211 5.53 -.06		
			007 5.68	.97					185 5.10 -1.86			049 5.49 -.36		
			023 5.63	.66					105 5.09 R -2.18			057 5.52 -.43		
			009 5.60	.42					254 5.02 -2.27			416 5.46 -.51		
			Avg 5.54						260 4.95 -2.69			230 5.52 R -.77		
			231 5.53	-.21					230 4.87 s -3.25			231 5.43 -.82		
			043 5.53	-.25					393 4.45 s -5.69			090 5.21 -2.26		
			325 5.43	-.76								102 4.55 s -6.97		
			291 5.40	-.95					Meth: 048.20 PCT					
			377 5.29	-1.69					Water Soluble Phosph			Meth: 050.10 PCT		
			354 5.23 R	-2.61					<u>Spectrometric</u>			Soluble Potash		
			393 4.45 s	-7.49					420 4.44 1.28			<u>STPB Citrate</u>		
									Avg 2.20			444 5.52 .71		
									096 1.35 -.49					
									363 0.82 -.79			Meth: 050.30 PCT		
												Soluble Potash		
									Meth: 048.50 PCT			<u>AA (Oxalate)</u>		
									Water Soluble Phosph			040 5.59 .97		
									<u>ICP</u>			234 5.58 .95		
									393 0.90 X .71			073 5.55 .84		
												Avg 5.44		

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.30 PCT			Meth: 050.60 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>AA (Oxalate)</u>			<u>Flame (Oxalate)</u>			<u>Other</u>								
043	5.40	-.30	460	5.85	1.15	368	5.54	-.49	057	5.65	.29	254	5.23	-1.83
262	5.28	-1.06	415	5.83	1.00	042	5.60	-.52	137	5.65	.29	090	5.21	-1.94
254	5.23	-1.32	Avg	5.67		027	5.42	-1.07	131	5.65	.26	185	5.25 R	-2.14
185	5.25 R	-2.01	105	5.67	-.03	255	5.13	-2.50	029	5.61	.24	255	5.13	-2.36
Meth: 050.31 PCT			Meth: 050.61 PCT			Meth: 050.XX PCT			Avg			Meth: 060.00 PCT		
Soluble Potash			Soluble Potash			Soluble Potash			040			Free Water		
<u>AA (Citrate)</u>			<u>Flame (Citrate)</u>						029			<u>Vacuum Oven</u>		
254	5.25	.71	456	5.95	2.11	023	6.36 s	3.86	105	5.57	-.19	096	1.99	1.96
Meth: 050.50 PCT			095			114			247			363		
Soluble Potash			057			451			234			Avg		
<u>ICP (Oxalate)</u>			131			360			368			247		
451	6.05	1.76	Avg	5.64		456	5.95	1.81	296	5.54	-.29	416	1.33	-.65
106	5.80	.55	105	5.63	-.11	007	5.87	1.39	035	5.55	-.30	007	1.32	-.71
354	5.74	.53	028	5.60	-.40	330	5.85	1.32	420	5.53	-.32	456	1.30	-.79
Avg	5.68		029	5.61	-.40	460	5.85	1.32	096	5.55	-.33	Meth: 101.00 PCT		
426	5.61	-.46	035	5.55	-.70	095	5.83	1.25	211	5.53	-.35	Acid Soluble Calcium		
444	5.64	-.49	041	5.50	-.97	415	5.83	1.21	073	5.55	-.37	<u>AA</u>		
420	5.53	-.70	034	5.47	-1.18	419	5.82	1.17	406	5.52	-.40	105 8.00 .71		
292	5.39	-1.37	Meth: 050.99 PCT			009			041			Meth: 101.30 PCT		
Meth: 050.51 PCT			Soluble Potash			106			057			Acid Soluble Calcium		
Soluble Potash			Other			131			049			<u>ICP</u>		
<u>ICP (Citrate)</u>			360			009			055			393		
432	6.36 S	3.03	330	5.99	1.71	009	5.78	.93	034	5.47	-.63	291	8.77	1.87
023	6.35 S	2.98	419	5.85	1.06	354	5.74	.88	230	5.52	-.67	291	8.73	1.77
007	5.87	1.09	260	5.82	.92	260	5.75	.80	416	5.46	-.67	049	8.52 R	1.73
009	5.81	.85	131	5.74 R	.81	055	5.72	.66	389	5.43	-.86	096	8.36	.96
291	5.80	.83	260	5.75	.55	444	5.64	.52	231	5.43	-.88	035	8.31	.93
377	5.62	.23	177	5.69	.26	042	5.60	.51	027	5.42	-.88	420	8.11	.44
043	5.62	.16	402	5.68	.21	177	5.69	.49	043	5.40	-1.01	057	8.04	.31
Avg	5.59		325	5.67	.18	402	5.68	.44	292	5.39	-1.03	Avg	7.92	
096	5.55	-.26	137	5.65	.06	325	5.67	.40	444	5.52 R	-1.11	131	7.82	-.24
389	5.43	-.67	Avg	5.64		105	5.67	.36	262	5.28	-1.62	354	7.82	-.27
393	5.07	-2.07	232	5.59	-.28	426	5.61	.36	254	5.25	-1.74			
			105	5.57	-.37	377	5.62	.30						

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 144.99 PCT			Meth: 151.30 PPM			Meth: 165.99 PCT			Meth: 165.XX PCT			Meth: 181.30 PPM		
Sulfur			Arsenic			Acid Soluble Boron			Acid Soluble Boron			Cadmium		
<u>Other</u>			<u>ICP</u>			<u>Other</u>			<u>ICP</u>			<u>ICP</u>		
291	15.01	.44	296	1.70	-1.66	117	1.555	1.25	360	1.502	.60	102	3.26	.58
354	14.97	.43				368	1.489 R	1.16	444	1.480	.58	230	3.01	.14
009	14.84	.38	Meth: 151.99 PPM			137	1.510	.73	419	1.495	.53	Avg 2.93		
363	14.76	.35	Arsenic			049	1.500	.70	231	1.475	.30	247 2.75 -.53		
393	13.93	.03	<u>Other</u>			300	1.505	.67	255	1.470	.25	035 2.53 -.68		
Avg	13.86		231	6.33	.71	363	1.498	.65	Avg	1.449		096 2.00 -1.59		
390	13.85 R	-.10				360	1.502	.64	409	1.435	-.16	405 2.00 -1.59		
035	7.87	-2.32	Meth: 151.XX PPM			444	1.480	.59	009	1.430	-.24	393 1.92 R -2.42		
027	4.93 S	-3.46	<u>Arsenic</u>			419	1.495	.57	389	1.425	-.39			
			393	10.96	1.39	231	1.475	.35	042	1.415	-.42			
			368	9.90	1.04	255	1.470	.30	055	1.419	-.43	Meth: 181.99 PPM		
			405	9.00	.73	Avg	1.444		296	1.360	-1.03	Cadmium		
Meth: 144.XX PCT			Avg 6.83			409	1.435	-.11	426	1.380	-1.03	<u>Other</u>		
Sulfur			230	6.43	-.14	009	1.430	-.19	029	1.425	-1.04	231 3.28 .71		
389	15.65	.72	231	6.33	-.17	389	1.425	-.34	291	1.340	-1.23			
291	15.01	.44	102	6.25	-.20	042	1.415	-.36	354	1.334	-1.31	Meth: 181.XX PPM		
354	14.97	.42	247	6.50 R	-.20	296	1.360	-.95	114	1.325	-1.40	Cadmium		
009	14.84	.36	009	5.21 R	-.57	426	1.380	-.96	043	1.310	-1.57	363 4.20 1.78		
363	14.76	.33	096	4.10	-.92	291	1.340	-1.15	230	1.280	-1.92	296 3.55 .86		
102	14.64	.28	296	1.70	-1.73	354	1.334	-1.22	428	1.414 R	-2.65	009 3.46 .62		
105	14.46	.19				114	1.325	-1.31				419 3.40 .55		
Avg	14.01		Meth: 165.00 PCT			043	1.310	-1.48	Meth: 171.99 PCT			368 3.30 .37		
393	13.93	-.04	Acid Soluble Boron			230	1.280	-1.81	Water Soluble Boron			231 3.28 .36		
390	13.85 R	-.13	<u>Spectrometric</u>						<u>Other</u>			102 3.26 .32		
035	7.87	-2.70	023	1.518	.76	Meth: 165.XX PCT			027 1.480 .00			Avg 3.06		
027	4.93 s	-3.99	028	1.502	.56	<u>Acid Soluble Boron</u>			Meth: 181.00 PPM			230 3.01 -.10		
			Avg	1.466		432	1.660 R	2.69	Cadmium			247 2.75 -.62		
Meth: 151.30 PPM			055	1.419	-.77	433	1.605	1.84	Atomic Absorption			035 2.53 -.83		
Arsenic			029	1.425	-1.42	090	1.580	1.49	363 4.20 .71			096 2.00 -1.65		
<u>ICP</u>			428	1.414 s	-3.45	117	1.555	1.24	Meth: 181.30 PPM			405 2.00 -1.65		
393	10.96	1.42				368	1.489	1.17	Cadmium			393 1.92 R -2.34		
368	9.90	1.06	Meth: 165.99 PCT			023	1.518	.79	Water Soluble Chlori			Meth: 190.99 PCT		
405	9.00	.77	Acid Soluble Boron			137	1.510	.69	<u>ICP</u>			Avg 2.93		
Avg	6.69		<u>Other</u>			049	1.500	.67	296 3.55 1.16			247 2.75 -.62		
230	6.43	-.09	432	1.660 R	2.67	300	1.505	.64	009 3.46 .92			035 2.53 -.83		
102	6.25	-.15	433	1.605	1.84	028	1.502	.62	419 3.40 .84			096 2.00 -1.65		
247	6.50 R	-.18	090	1.580	1.50	363	1.498	.62	368 3.30 .65			405 2.00 -1.65		
009	5.21	-.52							Meth: 181.30 PPM			393 1.92 R -2.34		
096	4.10	-.86							Cadmium			Meth: 190.99 PCT		
									Water Soluble Chlori			Avg 2.93		
									<u>Other</u>			247 2.75 -.62		
									009 0.52 .00			035 2.53 -.83		

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 191.30 PPM Chromium			Meth: 202.30 PPM Acid Soluble Cobalt			Meth: 221.00 PCT Acid Soluble Copper			Meth: 221.30 PCT Acid Soluble Copper			Meth: 221.XX PCT Acid Soluble Copper		
<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>		
096	178.00	1.78	096	76.50	1.34	043	1.0450	.28	330	0.8500	-.75	095	1.1170	.55
009	170.00	1.40	057	73.35	1.18	Avg	0.9950		096	0.7450	-1.20	230	1.1050	.50
102	153.93	.69	009	70.95	1.07	055	0.9650	-.18	027	0.7120	-1.35	368	1.0849	.45
247	154.50	.63	Avg	50.86		029	0.8980	-.57	426	0.7050	-1.39	360	1.0545	.43
035	150.00	.40	419	44.50	-.33	234	0.8900	-.59	405	0.7000	-1.40	420	1.0450	.28
Avg	142.19		035	44.10	-.37	296	0.8555	-.75	390	0.6875	-1.46	255	1.0515	.28
393	140.85	-.07	247	36.00	-.79	460	0.7050	-1.56	409	0.6850	-1.48	114	1.0350	.27
023	141.50	-.23	049	34.24	-.88	Meth: 221.30 PCT Acid Soluble Copper			444	0.6800	-1.50	043	1.0450	.22
405	137.50	-.23	027	27.24	-1.24	<u>ICP</u>			402	0.6000	-1.86	Avg	1.0032	
419	126.00	-.87	Meth: 202.99 PPM Acid Soluble Cobalt			102	1.3750	1.72	Meth: 221.99 PCT Acid Soluble Copper			137	0.9900	-.06
230	122.00	-1.00	<u>Other</u>			090	1.3300	1.50	<u>Other</u>			057	0.9970	-.12
049	117.69	-1.25	393	49.15	.87	035	1.2350	1.07	114	1.0350	1.12	055	0.9650	-.20
027	114.34	-1.38	Avg	35.16		433	1.2300	1.04	Avg	1.0125		300	0.8950	-.53
368	142.00 R	-1.54	231	21.16	-.87	042	1.2000 R	1.01	137	0.9900	-.50	029	0.8980	-.55
Meth: 191.99 PPM Chromium			Meth: 202.XX PPM Acid Soluble Cobalt			023	1.2060	.93	Meth: 221.XX PCT Acid Soluble Copper			234	0.8900	-.57
<u>Other</u>			<u>Acid Soluble Cobalt</u>			389	1.2000	.90	<u>Acid Soluble Copper</u>			432	0.8900	-.62
231	42.13 S	.00	096	76.50	1.50	049	1.1900	.86	102	1.3750	1.83	296	0.8555	-.72
Meth: 191.XX PPM Chromium			057	73.35	1.33	291	1.1850	.83	262	1.3500	1.69	354	0.8450	-.77
096	178.00	1.78	131	1.1600	.72	041	1.1200	.65	090	1.3300	1.59	330	0.8500	-.79
009	170.00	1.40	009	70.95	1.22	419	1.1200	.56	035	1.2350	1.14	096	0.7450	-1.26
102	153.93	.69	393	49.15	.07	247	1.1250	.55	433	1.2300	1.11	027	0.7120	-1.42
247	154.50	.63	Avg	47.72		009	1.1200	.54	042	1.2000 R	1.08	460	0.7050	-1.45
035	150.00	.40	419	44.50	-.17	231	1.1150	.53	023	1.2060	.99	426	0.7050	-1.46
Avg	142.19		035	44.10	-.21	095	1.1170	.52	389	1.2000	.96	405	0.7000	-1.48
393	140.85	-.07	247	36.00	-.62	230	1.1050	.46	049	1.1900	.92	390	0.6875	-1.54
023	141.50	-.23	049	34.24	-.71	368	1.0849	.42	291	1.1850	.89	409	0.6850	-1.56
405	137.50	-.23	027	27.24	-1.06	360	1.0545	.40	131	1.1600	.77	444	0.6800	-1.58
419	126.00	-.87	231	21.16	-1.38	420	1.0450	.26	041	1.1200	.69	402	0.6000	-1.97
230	122.00	-1.00	Meth: 221.00 PCT Acid Soluble Copper			255	1.0515	.26	028	1.1250	.63	Meth: 241.00 PCT Acid Soluble Iron		
049	117.69	-1.25	<u>Atomic Absorption</u>			Avg	1.0049		419	1.1200	.60	<u>Atomic Absorption</u>		
027	114.34	-1.38	262	1.3500	1.92	057	0.9970	-.11	247	1.1250	.59	363	0.27	.71
368	142.00 R	-1.54	028	1.1250	.74	300	0.8950	-.51	009	1.1200	.58	Avg	0.27	
231	42.13 s	-4.96	428	1.1213	.68	432	0.8900	-.60	428	1.1213	.58	105	0.11 S-109.29	
						354	0.8450	-.74	231	1.1150	.57			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 251.XX PPM			Meth: 261.30 PCT			Meth: 261.XX PCT		
<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>		
ICP			393	0.23	-1.03	231	4.09	-1.03	ICP			096	2.200	.70
117	1.74 s	35.69	402	0.22	-1.32				433	2.060	-.09	090	2.190	.65
049	0.40 s	3.50	041	0.17	-2.55	Meth: 261.00 PCT			230	2.070	-.11	131	2.175	.62
354	0.31	1.05	105	0.11 s	-3.94	<u>Acid Soluble Manganese</u>			444	2.030	-.36	389	2.175	.59
420	0.31	1.00	Meth: 251.30 PPM			<u>AA</u>			368	2.037	-.39	234	2.080 R	.42
389	0.31	.82	035	39.45 s	6.26	262	2.260	1.27	300	2.000	-.40	177	2.123	.32
057	0.30	.76	027	17.58	1.66	028	2.215	.94	009	2.015	-.47	460	2.100	.28
096	0.30	.73	393	15.12	1.14	177	2.123	.20	426	2.000	-.55	027	2.117	.28
390	0.30	.60	419	10.95	.30	Avg	2.105		041	1.955	-.64	354	2.103	.22
102	0.29	.53	102	10.45	.16	460	2.100	-.33	023	1.948	-.70	231	2.105	.21
009	0.29	.42	Avg	9.68		296	1.970	-1.12	247	1.915	-.87	291	2.085	.13
247	0.28	.20	096	9.20	-.10	043	1.960	-1.27	419	1.795	-1.51	420	2.088	.13
131	0.28	.14	009	9.65 R	-.30	Meth: 261.11 PCT			402	1.760	-1.70	230	2.070	.11
Avg	0.27		296	5.15	-.95	<u>Acid Soluble Manganese</u>			114	1.700	-2.03	Avg	2.064	
035	0.25	-.45	368	4.55	-1.08	<u>AA</u>			095	1.645	-2.33	433	2.060	-.06
444	0.24	-.90	230	4.42	-1.11	029	1.969	.71	049	1.325 s	-5.84	444	2.030	-.31
393	0.23	-1.00	Meth: 251.99 PPM			Meth: 261.30 PCT			Meth: 261.99 PCT			300	2.000	-.33
402	0.22	-1.28	Lead			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			368	2.037	-.35
041	0.17	-2.47	Other			<u>ICP</u>			<u>Other</u>			009	2.015	-.42
Meth: 241.XX PCT			117	2.395	1.75	137			2.320			426	2.000	-.49
<u>Acid Soluble Iron</u>			102	2.323	1.35	234			2.080 R			029	1.969	-.50
117	1.74 s	36.90	330	2.300	1.23	Avg			1.916			296	1.970	-.51
049	0.40 s	3.62	057	2.283	1.13	255			1.884			041	1.955	-.56
354	0.31	1.09	432	2.265	1.05	042			1.545			043	1.960	-.62
420	0.31	1.03	035	2.255	.99	Meth: 261.XX PCT			Meth: 261.XX PCT			023	1.948	-.62
389	0.31	.85	360	2.220	.82	<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			247	1.915	-.78
057	0.30	.79	096	2.200	.69	117			2.395			255	1.884	-.93
096	0.30	.76	090	2.190	.63	102			2.323			419	1.795	-1.39
390	0.30	.62	131	2.175	.60	137			2.320			402	1.760	-1.57
102	0.29	.56	389	2.175	.57	330			2.300			114	1.700	-1.89
009	0.29	.44	027	2.117	.24	057			2.283			095	1.645	-2.17
247	0.28	.21	354	2.103	.18	432			2.265			042	1.545	-2.68
131	0.28	.15	231	2.105	.17	262			2.260			049	1.325 s	-5.54
Avg	0.27		291	2.085	.10	035			2.255			Meth: 281.00 PPM		
363	0.27	-.07	420	2.088	.09	360			2.220			Mercury		
035	0.25	-.47	Avg	2.074		028			2.215			<u>Atomic Absorption</u>		
444	0.24	-.93										230	0.03	.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
<u>Meth: 281.30 PPM</u>			<u>Meth: 289.99 PPM</u>			<u>Meth: 291.30 PPM</u>			<u>Meth: 301.99 PPM</u>			<u>Meth: 321.00 PCT</u>		
Mercury			Molybdenum			Nickel			Selenium			Acid Soluble Zinc		
<u>ICP</u>			<u>Other</u>			<u>ICP</u>			<u>Other</u>			<u>Atomic Absorption</u>		
393	1.72	.00	231	2.86	.71	096	184.50	-.92	102	3.52	.82	043	1.640	-.29
<u>Meth: 281.99 PPM</u>			<u>Meth: 289.XX PPM</u>			<u>Meth: 291.99 PPM</u>			<u>Meth: 301.XX PPM</u>			<u>Meth: 321.30 PCT</u>		
Mercury			Molybdenum			Nickel			Selenium			Acid Soluble Zinc		
<u>Other</u>			057			<u>Other</u>			<u>Selenium</u>			<u>ICP</u>		
009	0.04	.71	247	12.00	1.23	231	154.69	-.71	393	13.14	1.43	042	2.045 R	2.18
<u>Meth: 281.XX PPM</u>			368			<u>Meth: 291.XX PPM</u>			009			432		
Mercury			102			Nickel			230			049		
393	1.72	1.29	419	10.40	.64	<u>Nickel</u>			Avg			102		
Avg	0.60		009	10.50	.63	009	260.00	2.31	102			057		
009	0.04	-.64	035	9.63	.31	023	231.50	1.26	231			095		
230	0.03	-.65	296	8.85	-.14	049	209.37	.50	296			389		
<u>Meth: 289.00 PPM</u>			230			247			096			117		
Molybdenum			255			Avg			Meth: 311.99 PCT			090		
<u>Atomic Absorption</u>			393			027			Sodium			035		
296	8.85	.71	231	2.86	-2.43	035	191.00	-.32	<u>Other</u>			426		
<u>Meth: 289.30 PPM</u>			<u>Meth: 291.00 PPM</u>			419			102			291		
Molybdenum			Nickel			096			009			131		
<u>ICP</u>			<u>Atomic Absorption</u>			368			057			360		
057	12.74 R	2.08	296	175.00	.71	230	184.00	-.60	Avg			Avg		
247	12.00	1.42	<u>Meth: 291.30 PPM</u>			296			074			230		
368	10.90 R	1.17	Nickel			231			071			433		
433	10.83	.73	<u>ICP</u>			393			071			363		
419	10.40	.59	009			<u>Meth: 301.30 PPM</u>			Meth: 321.00 PCT			300		
102	10.53	.57	023			Selenium			Acid Soluble Zinc			009		
009	10.50	.53	049			<u>ICP</u>			<u>Atomic Absorption</u>			420		
035	9.63	.20	102			393			055			231		
Avg	9.60		Avg			368			028			023		
230	8.02	-.93	247			009			262			368		
255	7.88	-1.02	027			Avg			105			354		
393	6.64	-1.75	035			230			460			255		
			419			096			177			027		
			368			Meth: 301.30 PPM			Avg			419		
						Selenium			1.659			1.605		
						<u>ICP</u>						-.83		
						393								
						13.14								
						.73								
						.70								
						.54								
						9.33								
						-.20								
						-1.77								

\* 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: 321.30 PCT			Meth: 321.XX PCT								
Acid Soluble Zinc			Acid Soluble Zinc								
<u>ICP</u>			<u>ICP</u>								
330	1.600	-.85	460	1.710	-.14	300	1.725	-.16			
114	1.585	-.96	009	1.710	-.18	231	1.705	-.18			
402	1.560	-1.09	023	1.700	-.19	177	1.682	-.30			
409	1.560	-1.12	368	1.676	-.34	354	1.668	-.41			
041	1.515	-1.37	255	1.650	-.53	105	1.680	-.54			
247	1.350	-2.35	105	1.680	-.54	296	1.650	-.56			
			296	1.650	-.56	043	1.640	-.58			
Meth: 321.99 PCT			027	1.625	-.67	419	1.620	-.70			
Acid Soluble Zinc			444	1.605	-.79	428	1.603 X	-.80			
<u>Other</u>			428	1.603 X	-.80	330	1.600	-.81			
137	1.950	.00	330	1.600	-.81	114	1.585	-.92			
			114	1.585	-.92	402	1.560	-1.06			
Meth: 321.XX PCT			402	1.560	-1.06	409	1.560	-1.09			
Acid Soluble Zinc			409	1.560	-1.09	041	1.515	-1.35			
042	2.045 R	2.35	041	1.515	-1.35	029	1.464	-1.69			
432	2.095	2.29	029	1.464	-1.69	247	1.350	-2.38			
049	2.000 R	1.97	247	1.350	-2.38						
102	2.022	1.85									
057	1.988	1.61	Meth: 325.30 PCT								
095	1.979	1.56	Water Soluble Zinc								
389	1.975	1.54	<u>ICP</u>			393	1.645	-.71			
137	1.950	1.38									
117	1.935	1.29									
055	1.790 R	1.25									
090	1.920	1.19									
035	1.875	.91									
426	1.840	.76									
291	1.825	.60									
131	1.750	.46									
360	1.785	.36									
262	1.745	.30									
420	1.735	.25									
028	1.755	.22									
363	1.736	.11									
230	1.740	.09									
433	1.730	.06									
Avg	1.730										

\* 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	9	0.00	0.94	0.40	101.XX	19	0.07	1.01	0.35
001.99	11	- 0.31	1.41	0.08	121.00	9	0.00	0.99	0.28
001.XX	20	- 0.34	1.32	0.22	121.30	36	0.43	2.65	0.48
002.99	2	0.00	1.18	0.24	121.99	2	0.00	1.19	0.19
002.XX	2	0.00	1.18	0.24	121.XX	47	0.32	2.28	0.42
010.11	8	0.00	1.01	0.20	131.30	4	0.00	1.08	0.06
010.12	3	- 5.47	9.51	0.41	131.XX	6	2.53	6.27	0.48
010.60	49	0.08	1.12	0.44	144.01	2	0.00	1.20	0.16
010.99	5	0.00	0.97	0.39	144.99	9	- 0.38	1.46	0.04
010.XX	63	0.02	1.20	0.41	144.XX	11	- 0.37	1.51	0.04
020.10	5	0.00	1.02	0.26	151.30	9	- 0.01	0.97	0.08
020.20	16	- 0.08	2.04	0.29	151.XX	10	- 0.07	0.93	0.08
020.40	7	0.00	0.98	0.32	165.00	5	- 0.150	0.727	1.623
020.50	13	0.00	0.96	0.31	165.99	25	0.115	1.054	0.399
020.99	2	0.00	1.20	0.16	165.XX	30	0.067	1.008	0.638
020.XX	39	0.01	0.98	0.26	181.30	11	- 0.16	1.09	0.55
030.20	2	0.00	1.22	0.07	181.XX	13	- 0.14	1.08	0.46
030.XX	5	- 0.27	1.11	0.08	191.30	13	0.00	0.96	0.47
040.XX	5	0.00	1.04	0.19	191.XX	14	- 0.36	1.61	0.45
041.10	13	- 0.11	1.04	0.22	202.30	8	0.00	1.03	0.09
041.20	4	0.00	1.07	0.14	202.99	2	0.00	1.22	0.01
041.40	3	0.00	0.54	0.80	202.XX	10	0.00	1.02	0.08
041.50	11	- 0.87	2.45	0.53	221.00	9	0.0000	1.0208	0.1351
041.60	9	0.56	3.22	0.86	221.30	34	0.0264	0.9934	0.1653
041.99	3	- 1.95	3.47	1.01	221.99	2	0.0000	0.7071	0.7071
041.XX	34	- 0.22	1.68	0.44	221.XX	45	0.0213	0.9933	0.1650
048.20	3	0.00	1.12	0.02	241.00	2	- 54.62	77.25	2.30
048.XX	4	0.00	1.08	0.02	241.30	17	2.27	8.65	0.97
050.00	15	- 0.09	2.54	0.37	241.XX	19	1.89	8.57	0.95
050.30	7	- 0.17	1.03	0.65	251.30	10	0.63	2.18	0.11
050.50	7	0.00	1.00	0.27	251.XX	11	0.58	2.11	0.11
050.51	10	0.60	1.55	0.16	261.00	6	0.000	0.997	0.297
050.60	5	0.00	1.04	0.17	261.30	31	- 0.131	1.220	0.771
050.61	10	0.00	1.00	0.23	261.99	4	0.118	0.943	0.116
050.99	17	- 0.44	1.61	0.25	261.XX	42	- 0.089	1.135	0.639
050.XX	62	- 0.04	1.61	0.32	281.XX	3	0.000	1.118	0.001
060.00	6	0.00	1.03	0.18	289.30	11	0.24	1.08	0.41
060.XX	6	0.00	1.03	0.18	289.XX	13	0.18	1.04	0.26
101.30	17	0.08	1.01	0.35	291.30	12	- 0.35	1.53	0.29

## 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
291.XX	14	- 0.25	1.33	0.24					
301.30	5	0.00	1.06	0.04					
301.99	3	0.00	1.11	0.13					
301.XX	8	0.17	1.08	0.04					
311.99	5	0.00	1.01	0.29					
311.XX	5	0.00	1.01	0.29					
321.00	10	0.141	0.996	0.743					
321.30	34	0.098	1.046	0.301					
321.XX	45	0.090	1.032	0.342					