

- Pass 1 Results for 78 Labs - - Pass 2 Results for 76 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	2	1.09	0.10	0.04	2	1.09	0.10	0.04
Ammoniacal Nitrogen, Other		001.99	5	8.73	12.49	0.02	5	8.73	12.49	0.02
Method Group 001.XX PCT			7	6.55	10.99	0.03	7	6.55	10.99	0.03
Nitrate Nitrogen, Other		002.99	2	0.00	0.00	0.00	2	0.00	0.00	0.00
Water Insoluble Nitrogen, Meth I	945.01	003.10	3	0.95	0.37	0.25	3	0.95	0.37	0.25
Water Insoluble Nitrogen, Other		003.99	1	0.77	0.01	0.02	1	0.77	0.01	0.02
Method Group 003.XX PCT			4	0.91	0.32	0.19	3	0.87	0.32	0.04
Nitrogen From Urea, Urease (as N)	959.03	005.00	2	17.32	0.14	0.10	2	17.32	0.14	0.10
Nitrogen From Urea, Other		005.99	2	23.04	6.05	2.07	2	23.04	6.05	2.07
Method Group 005.XX PCT			4	20.18	5.01	1.09	4	20.18	5.01	1.09
Percent Urea, Other		007.99	1	17.60	0.00	0.00	1	17.60	0.00	0.00
Ammon & Nitrate N, Devarda	892.01	009.10	1	27.01	0.11	0.16	1	27.01	0.11	0.16
Total Nitrogen, Modified Comprehensive	978.02	010.11	10	31.99	0.25	0.12	9	31.95	0.22	0.06
Total Nitrogen, Salicylic	955.04D	010.12	4	31.99	0.16	0.05	4	31.99	0.16	0.05
Total Nitrogen, Raney	970.03	010.16	2	32.22	0.23	0.20	2	32.22	0.23	0.20
Total Nitrogen, Combustion		010.60	53	32.29	0.30	0.13	49	32.25	0.25	0.11
Total Nitrogen, Other		010.99	2	32.01	0.07	0.03	2	32.01	0.07	0.03
Method Group 010.XX PCT			71	32.22	0.31	0.13	65	32.19	0.26	0.10
Total Phosphate, Spectrometric	958.01	020.20	5	0.11	0.10	0.00	4	0.10	0.11	0.00
Total Phosphate, ICP		020.50	4	0.04	0.04	0.01	4	0.04	0.04	0.01
Total Phosphate, Other		020.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 020.XX PCT			10	0.07	0.08	0.00	8	0.06	0.09	0.00
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Dir Available Phosphate, ICP		041.50	4	0.04	0.05	0.00	4	0.04	0.05	0.00
Dir Available Phosphate, EDTA Extract	993.01	041.60	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Method Group 041.XX PCT			6	0.03	0.04	0.00	5	0.03	0.04	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	0.22	0.04	0.05	1	0.22	0.04	0.05
Soluble Potash, STPB Oxalate	958.02	050.00	11	10.13	0.35	0.08	11	10.13	0.35	0.08
Soluble Potash, AA (Oxalate)		050.30	8	9.92	0.39	0.09	8	9.92	0.39	0.09
Soluble Potash, ICP (Oxalate)		050.50	6	10.11	0.21	0.19	6	10.11	0.21	0.19
Soluble Potash, ICP (Citrate)		050.51	9	10.21	0.34	0.11	8	10.19	0.34	0.06
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	8	10.26	0.35	0.07	7	10.16	0.25	0.05
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	7	10.21	0.08	0.04	7	10.21	0.08	0.04
Soluble Potash, Other		050.99	20	10.14	0.45	0.13	20	10.14	0.45	0.13
Method Group 050.XX PCT			71	10.14	0.36	0.11	65	10.18	0.32	0.09
Free Water, Vacuum Oven	965.08B	060.00	5	1.21	0.21	0.04	5	1.21	0.21	0.04
Method Group 060.XX PCT			5	1.21	0.21	0.04	5	1.21	0.21	0.04
Acid Soluble Calcium, AA	945.04	101.00	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Acid Soluble Calcium, ICP		101.30	8	0.04	0.01	0.00	7	0.04	0.01	0.00

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Acid Soluble Calcium, Other		101.99	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Method Group 101.XX PCT			10	0.04	0.01	0.00	9	0.04	0.01	0.00
Acid Soluble Magnesium, AA	984.01	121.00	1	0.06	0.00	0.00	1	0.06	0.00	0.00
Acid Soluble Magnesium, ICP		121.30	13	0.06	0.01	0.00	11	0.06	0.01	0.00
Acid Soluble Magnesium, Other		121.99	1	0.06	0.00	0.00	1	0.06	0.00	0.00
Method Group 121.XX PCT			15	0.06	0.01	0.00	13	0.06	0.01	0.00
Sulfur, Other		144.99	8	4.30	0.49	0.06	8	4.30	0.49	0.06
Arsenic, Atomic Absorption		151.00	1	0.15	0.01	0.02	1	0.15	0.01	0.02
Arsenic, ICP		151.30	5	0.54	0.64	0.13	4	0.60	0.69	0.01
Method Group 151.XX PPM			6	0.47	0.59	0.11	5	0.51	0.64	0.01
Acid Soluble Boron, Other		165.99	5	0.005	0.006	0.000	4	0.006	0.007	0.000
Cadmium, Atomic Absorption		181.00	1	0.03	0.04	0.06	1	0.03	0.04	0.06
Cadmium, ICP		181.30	6	0.09	0.14	0.01	5	0.10	0.15	0.01
Method Group 181.XX PPM			7	0.08	0.13	0.02	7	0.08	0.13	0.02
Chromium, ICP		191.30	11	22.18	3.55	1.14	11	22.18	3.55	1.14
Chromium, Other		191.99	1	9.31	0.25	0.35	1	9.31	0.25	0.35
Method Group 191.XX PPM			12	21.11	4.97	1.07	11	21.16	5.17	0.84
Acid Soluble Cobalt, AA		202.00	1	16.50	0.71	1.00	1	16.50	0.71	1.00
Acid Soluble Cobalt, ICP	965.11	202.30	12	8.91	3.56	0.53	11	8.68	3.62	0.41
Acid Soluble Cobalt, Other		202.99	1	5.41	0.07	0.10	1	5.41	0.07	0.10
Method Group 202.XX PPM			14	9.20	3.99	0.53	13	9.03	4.08	0.43
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	0.0005	0.0007	0.0010	1	0.0005	0.0007	0.0010
Acid Soluble Copper, ICP		221.30	13	0.0008	0.0007	0.0002	12	0.0007	0.0005	0.0002
Acid Soluble Copper, Other		221.99	2	0.0009	0.0001	0.0000	2	0.0009	0.0001	0.0000
Method Group 221.XX PCT			18	0.0015	0.0022	0.0003	15	0.0011	0.0015	0.0002
Acid Soluble Iron, Atomic Absorption	980.01	241.00	2	1.61	0.71	0.20	2	1.61	0.71	0.20
Acid Soluble Iron, ICP		241.30	11	2.05	0.32	0.12	10	2.06	0.32	0.09
Acid Soluble Iron, Other		241.99	1	2.21	0.04	0.06	1	2.21	0.04	0.06
Method Group 241.XX PCT			14	2.00	0.40	0.13	13	2.00	0.41	0.11
Lead, Atomic Absorption		251.00	1	6.00	1.41	2.00	1	6.00	1.41	2.00
Lead, ICP		251.30	7	2.37	1.47	0.52	7	2.37	1.47	0.52
Method Group 251.XX PPM			8	2.82	1.89	0.70	8	2.82	1.89	0.70
Acid Soluble Manganese, AA	972.02a	261.00	1	0.001	0.000	0.000	1	0.001	0.000	0.000
Acid Soluble Manganese, ICP	972.02a	261.30	10	1.807	2.957	0.107	9	1.286	2.620	0.008
Acid Soluble Manganese, Other		261.99	2	1.683	1.946	0.145	2	1.683	1.946	0.145
Method Group 261.XX PCT			13	1.649	2.709	0.105	12	1.245	2.395	0.030
Mercury, ICP		281.30	2	0.51	0.59	0.02	2	0.51	0.59	0.02
Molybdenum, ICP		289.30	8	1.41	0.85	0.32	8	1.41	0.85	0.32
Molybdenum, Other		289.99	1	0.79	0.03	0.04	1	0.79	0.03	0.04

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Method Group 289.XX PPM			9	1.34	0.83	0.29	8	1.32	0.86	0.20
Nickel, Atomic Absorption		291.00	1	17.00	0.00	0.00	1	17.00	0.00	0.00
Nickel, ICP		291.30	11	12.47	1.90	0.53	11	12.47	1.90	0.53
Nickel, Other		291.99	1	4.10	0.42	0.60	1	4.10	0.42	0.60
Method Group 291.XX PPM			13	12.18	3.20	0.49	12	12.28	3.30	0.39
Selenium, ICP		301.30	2	0.00	0.00	0.00	2	0.00	0.00	0.00
Sodium, Flame Photometric	974.01	311.30	1	0.08	0.03	0.04	1	0.08	0.03	0.04
Sodium, Other		311.99	7	0.04	0.03	0.00	6	0.03	0.02	0.00
Method Group 311.XX PCT			8	0.04	0.03	0.01	7	0.04	0.03	0.00
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	3	0.033	0.048	0.001	3	0.033	0.048	0.001
Acid Soluble Zinc, ICP		321.30	14	0.002	0.003	0.000	11	0.001	0.001	0.000
Acid Soluble Zinc, Other		321.99	1	0.001	0.001	0.001	1	0.001	0.001	0.001
Method Group 321.XX PCT			19	0.012	0.030	0.000	17	0.008	0.024	0.000
Water Soluble Zinc, ICP		325.30	1	0.001	0.000	0.000	1	0.001	0.000	0.000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 001.10 PCT</u>			<u>Meth: 003.10 PCT</u>			<u>Meth: 007.99 PCT</u>			<u>Meth: 010.16 PCT</u>			<u>Meth: 010.60 PCT</u>		
Ammoniacal Nitrogen			Water Insoluble Nitr			Percent Urea			Total Nitrogen			Total Nitrogen		
<u>MgO Distillation</u>			<u>Meth I</u>			<u>Other</u>			<u>Raney</u>			<u>Combustion</u>		
456	1.18	.88	Avg	0.95		419	17.60	.00	300	32.05	-.87	027	32.17	-.39
Avg	1.09		090	0.59	-.99							131	32.17	-.39
232	1.01	-.85	<u>Meth: 003.99 PCT</u>			<u>Meth: 009.10 PCT</u>			<u>Meth: 010.60 PCT</u>			037		
<u>Meth: 001.99 PCT</u>			Water Insoluble Nitr			Ammon & Nitrate N			Total Nitrogen			451		
Ammoniacal Nitrogen			<u>Other</u>			<u>Devarda</u>			<u>Combustion</u>			377		
137	31.67	1.84	027	0.77	.71	030	27.01	.71	428	33.15 A	3.63	024	32.13	-.50
Avg	8.73		<u>Meth: 003.XX PCT</u>			Meth: 010.11 PCT			360	33.08 A	3.39	157	32.25	-.61
393	8.71 X	.00	Water Insoluble Nitr			Total Nitrogen			102	32.76	2.08	262	32.10	-.62
096	1.33	-.59	232	1.27	1.25	<u>Modified Comprehensi</u>			177	32.70	1.82	040	32.10	-.71
027	0.99	-.62	029	1.01 R	1.11	114	33.35 s	6.32	368	32.67	1.71	043	32.16	-.75
420	0.95	-.62	Avg	0.87		456	32.28 R	2.07	422	32.65	1.60	023	32.04	-.87
<u>Meth: 001.XX PCT</u>			027	0.77	-.33	105	32.31	1.65	232	32.61	1.44	443	32.09	-.87
Ammoniacal Nitrogen			090	0.59	-.91	090	32.06	.50	055	32.50 R	1.42	234	32.02	-.96
137	31.67	2.29	<u>Meth: 005.00 PCT</u>			Meth: 010.12 PCT			007	32.60	1.40	423	32.02	-.98
393	8.71 X	.20	Nitrogen From Urea			Total Nitrogen			096	32.57	1.28	354	32.01	-.99
Avg	6.55		<u>Urease (as N)</u>			<u>Salicylic</u>			325	32.55	1.21	307	31.95	-1.25
096	1.33	-.47	169	17.42 X	.97	415	32.01	.26	034	32.54	1.20	402	31.95	-1.25
456	1.18	-.49	Avg	17.32		416	31.99 X	.18	330	32.50	1.07	009	31.95	-1.32
232	1.01	-.50	232	17.22	-.75	Avg	31.95		324	32.50	.99	426	31.94	-1.45
027	0.99	-.51	<u>Meth: 005.99 PCT</u>			Meth: 010.16 PCT			233	32.35	.93	041	32.21 R	-1.55
420	0.95	-.51	Nitrogen From Urea			Total Nitrogen			029	32.43	.91	095	31.81	-1.80
<u>Meth: 002.99 PCT</u>			<u>Other</u>			<u>Salicylic</u>			136	32.41	.61	406	31.77	-1.97
Nitrate Nitrogen			309	28.16	.88	351	32.16	1.11	275	32.37	.53	<u>Meth: 010.99 PCT</u>		
<u>Other</u>			Avg	23.04		470	32.03	.34	049	32.33	.29	Total Nitrogen		
232	0.00	.87	029	17.93	-.85	185	32.00	.21	291	32.32	.28	Other		
Avg	0.00		<u>Meth: 005.XX PCT</u>			Meth: 010.16 PCT			296	32.30	.27	420		
027	0.00	-.87	Nitrogen From Urea			Total Nitrogen			028	32.27	.08	32.07		
<u>Meth: 003.10 PCT</u>			309			Meth: 010.16 PCT			292	32.27	.05	Avg		
Water Insoluble Nitr			Avg	20.18		Total Nitrogen			231	32.22	-.16	371		
<u>Meth I</u>			029	17.93	-.46	<u>Raney</u>			393	32.24	-.16	31.95		
029	1.01	.89	169	17.42 X	-.55	419			230	32.25	-.20	-.88		
232	1.27	.85	232	17.22	-.59	Avg			450	32.20	-.22	Meth: 010.XX PCT		
									035	32.25	-.31	Total Nitrogen		
									086	32.19	-.32	114		
									420	32.17	-.36	14		
									247	32.21	-.36	33.35 s		
												428		
												33.15 A		
												360		
												33.08 A		
												102		
												32.76		
												2.22		
												177		
												32.70		
												1.97		

* 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			Meth: 010.XX PCT			Meth: 020.20 PCT			Meth: 041.10 PCT			Meth: 050.00 PCT		
<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Dir Available Phosph</u>			<u>Soluble Potash</u>		
368	32.67	1.87	451	32.15	-.24	<u>Spectrometric</u>			<u>Grav Quimociac</u>			<u>STPB Oxalate</u>		
422	32.65	1.77	037	32.18	-.29	460	0.00	-.93	086	0.00	-.71	416	10.55 X	1.21
232	32.61	1.62	262	32.10	-.33	450	0.00	-.93	Meth: 041.50 PCT			009	10.43	.86
007	32.60	1.58	420	32.07	-.45	Meth: 020.40 PCT			Dir Available Phosph			211	10.30	.47
055	32.50 R	1.53	040	32.10	-.45	Total Phosphate			<u>ICP</u>			049	10.23	.29
096	32.57	1.47	090	32.06	-.50	<u>Automated</u>			055	10.16 s	217.04	Avg 10.13		
041	32.21 R	1.46	470	32.06	-.50	042	32.34 S	.00	354	0.11	1.59	471	10.08	-.16
325	32.55	1.40	460	32.05	-.55	Meth: 020.50 PCT			Avg 0.04			470	10.08	-.17
034	32.54	1.38	023	32.04	-.56	Total Phosphate			393	0.02 X	-.27	231	10.09	-.26
456	32.28 R	1.27	470	32.03	-.61	<u>ICP</u>			377	0.01	-.55	102	9.63	-1.46
330	32.50	1.26	043	32.16	-.62	422	0.11	1.62	325	0.00	-.77	114	9.45	-2.02
324	32.50	1.20	443	32.09	-.64	Avg 0.04			Meth: 041.60 PCT			230	8.73 S	-4.09
029	32.43	1.07	300	32.05	-.65	402	0.02	-.46	Dir Available Phosph			Meth: 050.30 PCT		
233	32.35 R	1.02	234	32.02	-.65	393	0.02 X	-.47	<u>EDTA Extract</u>			Soluble Potash		
419	32.40	.90	415	32.01	-.67	157	0.01	-.67	296	0.02	.00	<u>AA (Oxalate)</u>		
136	32.41	.84	354	32.01	-.67	Meth: 020.99 PCT			Meth: 041.XX PCT			185	11.98 s	5.31
275	32.37	.74	423	32.02	-.68	Total Phosphate			<u>Dir Available Phosph</u>			040	10.31	1.00
157	32.25	.62	185	32.00	-.72	<u>Other</u>			055	10.16 s	243.03	136	10.26	.87
105	32.31	.54	416	31.99 X	-.77	443	0.00	.00	354	0.11	1.86	234	10.12	.60
049	32.33	.53	371	31.95	-.91	Meth: 020.XX PCT			Avg 0.03			043	10.12	.50
291	32.32	.52	307	31.95	-.92	Total Phosphate			393	0.02 X	-.23	262	9.98	.14
296	32.30	.48	402	31.95	-.92	<u>Other</u>			296	0.02	-.30	Avg 9.92		
035	32.25	.36	009	31.95	-1.01	443 0.00 .00			377	0.01	-.54	419	9.83	-.35
028	32.27	.32	211	31.90	-1.11	Meth: 020.20 PCT			086	0.00 R	-.69	351	9.67	-.63
230	32.25	.31	426	31.94	-1.15	Total Phosphate			325	0.00	-.78	428 9.08 -2.14		
292	32.27	.30	095	31.81	-1.44	442 0.11 R .60			Meth: 048.20 PCT			Meth: 050.00 PCT		
247	32.21	.30	406	31.77	-1.60	Avg 0.06			Water Soluble Phosph			Soluble Potash		
393	32.24	.23	455	31.76	-1.63	402	0.02	-.41	<u>Spectrometric</u>			<u>ICP (Oxalate)</u>		
086	32.19	.17	309	31.63	-2.15	393	0.02 X	-.41	292	10.40	1.37	292	10.40	1.37
231	32.22	.11	260	31.60	-2.25	157	0.01	-.51	422	10.21	.71	422	10.21	.71
450	32.20	.05	Meth: 020.20 PCT			450	0.00	-.67	Meth: 050.00 PCT			Avg 10.11		
Avg	32.19		Total Phosphate			460	0.00	-.67	Soluble Potash			354 10.03 -.39		
420	32.17	-.13	<u>Spectrometric</u>			443	0.00	-.67	<u>STPB Oxalate</u>			420 10.03 -.42		
131	32.17	-.16	428	0.21	.98	Avg 0.10			095	10.57	1.27	157	10.09	-1.05
027	32.17	-.16	420	0.20	.89							426	9.92	-1.30
351	32.16	-.18	324	0.12 R	.19									
024	32.13	-.22	Avg											
377	32.14	-.23												

* 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: 050.50 PCT			Meth: 050.61 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 060.00 PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Free Water		
<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>									<u>Vacuum Oven</u>		
324	8.32 S	-8.66	Avg	10.21		007	10.77	1.83	247	10.08	-.30	363	1.45	1.13
			131	10.20	-.15	260	10.68	1.64	471	10.08	-.31	096	1.42	.99
			456	10.18	-.41	406	10.67	1.52	470	10.08	-.31	Avg	1.21	
Meth: 050.51 PCT			035 10.06 -2.04			330 10.65 1.48			231 10.09 -.37			007 1.15 -.34		
Soluble Potash			030 9.91 s -4.02			009 10.62 1.37			234 10.12 -.42			456 1.12 -.41		
<u>ICP (Citrate)</u>						363 10.60 1.31			460 10.05 -.43			416 0.91 X -1.40		
007	10.77	1.70	Meth: 050.99 PCT			029 10.57 1.31			035 10.06 -.43					
009	10.62	1.27	Soluble Potash			095 10.57 1.23			371 10.05 -.44			Meth: 060.99 PCT		
432	10.41 R	.99	<u>Other</u>			416 10.55 X 1.16			169 10.05 -.45			Free Water		
023	10.20	.22	027 10.86 1.62			432 10.41 R 1.06			354 10.03 -.46			<u>Other</u>		
291	10.20	.07	275 10.51 X 1.05			275 10.51 X 1.05			420 10.03 -.47			443 10.31 S .00		
Avg	10.19		260 10.68 1.25			009 10.43 .80			262 9.98 -.63					
377	10.15	-.18	330 10.65 1.14			177 10.40 .70			131 10.10 R -.67			Meth: 060.XX PCT		
393	9.91	-.81	363 10.60 1.02			292 10.40 .68			157 10.09 R -.73			Free Water		
423	9.84	-1.03	275 10.51 X .83			325 10.35 .56			309 9.94 -.74			<u>Free Water</u>		
043	9.82	-1.09	177 10.40 .58			105 10.32 .45			415 9.94 -.75			443 10.31 s 42.86		
			325 10.35 .48			040 10.31 .43			137 9.91 -.83			363 1.45 1.13		
			402 10.27 .28			041 10.30 .38			393 9.91 -.84			096 1.42 .99		
Meth: 050.60 PCT			232 10.20 .19			211 10.30 .37			030 9.91 -.94			Avg 1.21		
Soluble Potash			360 10.21 .15			422 10.21 .36			450 9.87 -.98			007 1.15 -.34		
<u>Flame (Oxalate)</u>			105 10.21 .14			402 10.27 .28			042 9.87 -.98			456 1.12 -.41		
443	10.92 R	3.04	Avg 10.14			136 10.26 .26			426 9.92 R -1.00			416 0.91 X -1.40		
406	10.67	2.01	247 10.08 -.14			105 10.26 .24			423 9.84 -1.06					
105	10.32	.64	371 10.05 -.25			023 10.20 .24			419 9.83 -1.13			Meth: 101.00 PCT		
470	10.17	.05	131 10.10 -.46			232 10.20 .21			043 9.82 -1.13			Acid Soluble Calcium		
Avg	10.16		137 9.91 -.52			024 10.23 .20			351 9.67 -1.57			<u>AA</u>		
460	10.05	-.48	042 9.87 -.62			049 10.23 .20			102 9.63 -1.71			105 0.03 .71		
169	10.05	-.51	450 9.87 -.62			034 10.23 .17			451 9.56 -1.97					
309	9.94	-.88	451 9.56 -1.34			360 10.21 .11			114 9.45 -2.31			Meth: 101.30 PCT		
415	9.94	-.89	307 9.44 -1.61			291 10.20 .09			307 9.44 -2.36			Acid Soluble Calcium		
			368 9.40 s -2.37			105 10.21 .09			368 9.40 s -3.39			<u>ICP</u>		
Meth: 050.61 PCT			455 9.06 -2.42			131 10.20 .08			428 9.06 A -3.41			422 1.02 s 179.65		
Soluble Potash						456 10.18 .06			455 9.06 A -3.48			363 0.08 S 8.05		
<u>Flame (Citrate)</u>						Avg 10.18			230 8.73 s -4.53			393 0.05 1.64		
029	10.57 s	4.85	Meth: 050.XX PCT			470 10.17 -.04			324 8.32 s -5.80			035 0.04 .91		
041	10.30	1.16	<u>Soluble Potash</u>			377 10.15 -.18						096 0.04 .27		
024	10.23	.60	185 11.98 s 5.66			043 10.12 -.21						423 0.04 .20		
105	10.26	.60	443 10.92 2.33			090 10.09 -.29						Avg 0.04		
034	10.23	.32	027 10.86 2.15											

* 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: 101.30 PCT			Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 151.XX PPM			Meth: 181.XX PPM		
<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Arsenic</u>			<u>Cadmium</u>		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>								
102	0.03	-.83	422	0.27 s	34.53	307	0.05	-.90	368	0.30 R	-.58	363	0.03	-.44
307	0.03	-.93	363	0.07	2.34	096	0.06 R	-.97	450	0.00	-.80	368	0.02	-.48
232	0.03	-1.14	041	0.07 R	1.45	354	0.05	-1.83	105	0.00 X	-.80	450	0.00	-.60
009	0.03 R	-1.68	009	0.06	.49	Meth: 144.99 PCT			Meth: 165.99 PCT			Meth: 191.30 PPM		
354	0.00 S	-6.87	035	0.06	.42	<u>Sulfur</u>			<u>Acid Soluble Boron</u>			<u>Chromium</u>		
041	0.00 S	-7.05	102	0.06	.38	<u>Other</u>			<u>Other</u>			<u>ICP</u>		
			423	0.06	.31	423	4.88	1.16	354	0.016	1.54	035	25.70	1.02
Meth: 101.99 PCT			Avg 0.06			354 4.71 .83			Avg 0.006			368 25.60 1.02		
<u>Acid Soluble Calcium</u>			131 0.06 -.05			363 4.63 .66			363 0.006 -.05			419 25.50 .95		
<u>Other</u>			157 0.06 -.27			232 4.48 .37			423 0.002 -.66			450 25.00 .79		
105	0.03 X	.71	232	0.06	-.43	422 4.40 .20			232 0.001 R -.69			009 24.65 .71		
			393	0.05	-.59	Avg 4.30			422 0.001 -.83			393 23.95 .50		
Meth: 101.XX PCT			307 0.05 -.87			009 4.24 -.21			Meth: 181.00 PPM			Avg 22.18		
<u>Acid Soluble Calcium</u>			096 0.06 R -.92			393 3.65 X -1.34			<u>Cadmium</u>			102 20.75 -.43		
422	1.02 s	185.84	354	0.05	-1.74	035 3.45 -1.74			<u>Atomic Absorption</u>			037 20.53 -.69		
363	0.08 s	8.52	Meth: 121.99 PCT			Meth: 151.00 PPM			363 0.03 .71			027 18.07 -1.16		
393	0.05	1.91	<u>Acid Soluble Magnesi</u>			<u>Arsenic</u>			Meth: 181.30 PPM			096 17.50 -1.33		
035	0.04	1.15	<u>Other</u>			<u>Atomic Absorption</u>			<u>Cadmium</u>			232 16.75 -1.53		
096	0.04	.49	105	0.06 X	.71	136 0.15 -.71			<u>ICP</u>			105 0.00 s -6.26		
423	0.04	.35	Meth: 121.XX PCT			Meth: 151.30 PPM			232 0.78 S 4.38			Meth: 191.99 PPM		
Avg	0.04		<u>Acid Soluble Magnesi</u>			<u>Arsenic</u>			009 0.39 1.86			<u>Chromium</u>		
105	0.03 X	-.60	422 0.27 s 37.43			<u>ICP</u>			419 0.07 -.23			Other		
102	0.03	-.65	363 0.07 2.58			393 1.53 1.35			393 0.06 -.31			231 9.31 .71		
307	0.03	-.75	041 0.07 R 1.61			232 0.87 .39			368 0.02 R -.55			Meth: 191.XX PPM		
105	0.03	-.94	009 0.06 .58			Avg 0.60			450 0.00 -.67			<u>Chromium</u>		
232	0.03	-.97	035 0.06 .50			368 0.30 R -.62			105 0.00 X -.67			035 25.70 .90		
009	0.03 R	-1.54	102 0.06 .46			450 0.00 -.87			Meth: 181.XX PPM			368 25.60 .89		
354	0.00 s	-6.89	423 0.06 .39			105 0.00 X -.87			<u>Cadmium</u>			419 25.50 .85		
041	0.00 s	-7.08	Avg 0.06			Meth: 151.XX PPM			232 0.78 s 5.20			450 25.00 .74		
Meth: 121.00 PCT			131 0.06 -.01			<u>Arsenic</u>			009 0.39 2.30			393 23.95 .54		
<u>Acid Soluble Magnesi</u>			157 0.06 -.24			393 1.53 1.61			Avg 0.08			Avg 21.16		
<u>AA</u>			105 0.06 -.28			232 0.87 .56			419 0.07 -.11			102 20.75 -.13		
105	0.06	.71	105 0.06 X -.30			Avg 0.51			393 0.06 -.19			037 20.53 R -.37		
			232 0.06 -.42			136 0.15 -.57								
			393 0.05 -.59											

* 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: 191.XX PPM Chromium</u>			<u>Meth: 202.XX PPM Acid Soluble Cobalt</u>			<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>			<u>Meth: 241.00 PCT Acid Soluble Iron Atomic Absorption</u>			<u>Meth: 241.XX PCT Acid Soluble Iron Avg</u>		
027	18.07	-.60	035	11.75	.67	041	0.0000	-1.30	105	2.22	.86	041	1.94 R	-.54
096	17.50	-.72	037	11.45 R	.64	157	0.0000	-1.30	Avg	1.61		232	1.50	-1.22
232	16.75	-.85	450	11.55	.62	<u>Meth: 221.99 PCT Acid Soluble Copper Other</u>			363	1.00	-.87	423	1.46	-1.33
231	9.31	-2.29	105	10.20 X	.29	105	0.0010 X	.78	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			363	1.00	-2.45
105	0.00 s	-4.10	Avg	9.03		Avg	0.0009		354	2.44	1.17	<u>Meth: 251.00 PPM Lead Atomic Absorption</u>		
<u>Meth: 202.00 PPM Acid Soluble Cobalt AA</u>			393	8.68	-.09	231	0.0009	-.94	035	2.28	.66	136	6.00	.71
136	16.50	.71	422	8.23	-.20	<u>Meth: 221.XX PCT Acid Soluble Copper</u>			009	2.24	.55	<u>Meth: 251.30 PPM Lead ICP</u>		
<u>Meth: 202.30 PPM Acid Soluble Cobalt ICP</u>			419	8.10	-.26	043	1.0009 s	657.14	422	2.24	.54	035	5.07	1.84
096	12.50	1.06	232	6.50	-.62	428	0.1145 s	74.74	096	2.21	.47	419	3.20	.66
009	12.25	1.00	102	5.71	-.81	422	0.0080 A	4.55	102	2.07	.43	105	2.41 X	.30
035	11.75	.85	231	5.41	-.89	324	0.0064	3.51	131	2.11	.23	393	2.37	.01
037	11.45 R	.81	368	0.00	-2.21	354	0.0025 R	.99	Avg	2.06		Avg	2.37	
450	11.55	.79	<u>Meth: 221.00 PCT Acid Soluble Copper Atomic Absorption</u>			035	0.0014	.21	041	1.94 R	-.77	450	2.00	-.25
105	10.20 X	.42	043	1.0009 S1414.71		095	0.0013	.15	232	1.50	-1.75	368	0.90	-1.08
Avg	8.68		428	0.1145 S 161.62		419	0.0012	.06	423	1.46	-1.89	102	0.64	-1.17
393	8.68	.00	105	0.0005	.71	Avg	0.0011		<u>Meth: 241.99 PCT Acid Soluble Iron Other</u>			<u>Meth: 251.XX PPM Lead</u>		
422	8.23	-.13	Avg	0.0005		450	0.0010	-.05	105	2.21 X	.71	136	6.00	1.77
419	8.10	-.21	<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>			105	0.0010 X	-.05	<u>Meth: 241.XX PCT Acid Soluble Iron</u>			035	5.07	1.20
232	6.50	-.60	422	0.0080 s	14.60	433	0.0010	-.05	105	2.21 X	.51	419	3.20	.33
102	5.71	-.82	324	0.0064 s	11.43	231	0.0009	-.15	<u>Meth: 241.99 PCT Acid Soluble Iron Other</u>			Avg	2.82	
368	0.00	-2.40	354	0.0025 R	3.80	102	0.0007	-.25	105	2.21 X	.51	393	2.37	-.24
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			035	0.0014	1.42	009	0.0004	-.41	035	2.44	1.05	105	2.41 X	-.32
231	5.41	.71	095	0.0013	1.29	363	0.0004	-.50	009	2.24	.57	450	2.00	-.44
<u>Meth: 202.XX PPM Acid Soluble Cobalt</u>			419	0.0012	.99	105	0.0005 R	-.50	422	2.24	.56	368	0.90	-1.07
136	16.50	1.83	433	0.0010	.75	402	0.0002	-.57	105	2.22	.54	102	0.64	-1.16
096	12.50	.86	450	0.0010	.69	041	0.0000	-.70	105	2.21 X	.51	<u>Meth: 251.00 PPM Lead</u>		
009	12.25	.80	102	0.0007	.22	157	0.0000	-.70	096	2.21	.50	035	5.07	1.20
<u>Meth: 202.XX PPM Acid Soluble Cobalt</u>			Avg	0.0007		<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>			102	2.07	.38	419	3.20	.33
136	16.50	1.83	009	0.0004	-.42	422	0.0080 s	14.60	131	2.11	.29	Avg	2.82	
096	12.50	.86	363	0.0004	-.76	324	0.0064 s	11.43	307	2.09	.22	393	2.37	-.24
009	12.25	.80	402	0.0002	-.90	354	0.0025 R	3.80	<u>Meth: 241.99 PCT Acid Soluble Iron Other</u>			105	2.41 X	-.32
<u>Meth: 202.30 PPM Acid Soluble Cobalt ICP</u>			368	0.0003	-.92	035	0.0014	1.42	105	2.21 X	.51	450	2.00	-.44
096	12.50	.86	<u>Meth: 221.00 PCT Acid Soluble Copper Atomic Absorption</u>			095	0.0013	1.29	105	2.22	.54	368	0.90	-1.07
009	12.25	.80	043	1.0009 S1414.71		419	0.0012	.99	105	2.21 X	.51	102	0.64	-1.16
<u>Meth: 202.00 PPM Acid Soluble Cobalt AA</u>			428	0.1145 S 161.62		Avg	0.0011		<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			<u>Meth: 251.30 PPM Lead ICP</u>		
136	16.50	.71	105	0.0005	.71	450	0.0010	-.05	354	2.44	1.17	035	5.07	1.84
<u>Meth: 202.30 PPM Acid Soluble Cobalt ICP</u>			Avg	0.0005		105	0.0010 X	-.05	096	2.21	.47	419	3.20	.66
096	12.50	1.06	<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>			433	0.0010	-.05	102	2.07	.43	105	2.41 X	.30
009	12.25	1.00	422	0.0080 s	14.60	231	0.0009	-.15	Avg	2.06		393	2.37	.01
035	11.75	.85	324	0.0064 s	11.43	102	0.0007	-.25	041	1.94 R	-.77	Avg	2.37	
037	11.45 R	.81	354	0.0025 R	3.80	009	0.0004	-.41	232	1.50	-1.75	450	2.00	-.25
450	11.55	.79	035	0.0014	1.42	363	0.0004	-.50	423	1.46	-1.89	368	0.90	-1.08
105	10.20 X	.42	095	0.0013	1.29	105	0.0005 R	-.50	<u>Meth: 241.99 PCT Acid Soluble Iron Other</u>			102	0.64	-1.17
Avg	8.68		419	0.0012	.99	402	0.0002	-.57	105	2.21 X	.71	<u>Meth: 251.XX PPM Lead</u>		
393	8.68	.00	433	0.0010	.75	041	0.0000	-.70	105	2.21 X	.51	136	6.00	1.77
422	8.23	-.13	450	0.0010	.69	157	0.0000	-.70	<u>Meth: 241.XX PCT Acid Soluble Iron</u>			035	5.07	1.20
419	8.10	-.21	102	0.0007	.22	<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>			105	2.21 X	.51	419	3.20	.33
232	6.50	-.60	Avg	0.0007		422	0.0080 s	14.60	105	2.22	.54	Avg	2.82	
102	5.71	-.82	009	0.0004	-.42	324	0.0064 s	11.43	035	2.28	.66	393	2.37	-.24
368	0.00	-2.40	363	0.0004	-.76	354	0.0025 R	3.80	009	2.24	.57	105	2.41 X	-.32
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			402	0.0002	-.90	035	0.0014	1.42	422	2.24	.56	450	2.00	-.44
231	5.41	.71	368	0.0003	-.92	095	0.0013	1.29	105	2.22	.54	368	0.90	-1.07
<u>Meth: 202.XX PPM Acid Soluble Cobalt</u>			<u>Meth: 221.00 PCT Acid Soluble Copper Atomic Absorption</u>			041	0.0000	-.70	<u>Meth: 241.99 PCT Acid Soluble Iron Other</u>			102	0.64	-1.16
136	16.50	1.83	043	1.0009 S1414.71		157	0.0000	-.70	105	2.21 X	.51	<u>Meth: 251.00 PPM Lead</u>		
096	12.50	.86	428	0.1145 S 161.62		<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>			096	2.21	.50	035	5.07	1.20
009	12.25	.80	105	0.0005	.71	422	0.0080 s	14.60	102	2.07	.38	419	3.20	.33
<u>Meth: 202.30 PPM Acid Soluble Cobalt ICP</u>			Avg	0.0005		324	0.0064	3.51	131	2.11	.29	Avg	2.82	
096	12.50	1.06	<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>			354	0.0025 R	.99	307	2.09	.22	393	2.37	-.24
009	12.25	1.00	422	0.0080 s	14.60	035	0.0014	.21	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			105	2.41 X	.30
035	11.75	.85	324	0.0064 s	11.43	095	0.0013	.15	354	2.44	1.17	393	2.37	.01
037	11.45 R	.81	354	0.0025 R	3.80	419	0.0012	.06	422	2.24	.54	Avg	2.37	
450	11.55	.79	035	0.0014	1.42	Avg	0.0011		423	1.46	-1.89	450	2.00	-.25
105	10.20 X	.42	095	0.0013	1.29	450	0.0010	-.05	<u>Meth: 241.99 PCT Acid Soluble Iron Other</u>			368	0.90	-1.08
Avg	8.68		419	0.0012	.99	105	0.0010 X	-.05	105	2.21 X	.71	102	0.64	-1.17
393	8.68	.00	433	0.0010	.75	433	0.0010	-.05	<u>Meth: 241.XX PCT Acid Soluble Iron</u>			<u>Meth: 251.XX PPM Lead</u>		
422	8.23	-.13	450	0.0010	.69	231	0.0009	-.15	105	2.21 X	.51	136	6.00	1.77
419	8.10	-.21	102	0.0007	.22	102	0.0007	-.25	105	2.22	.54	035	5.07	1.20
232	6.50	-.60	Avg	0.0007		009	0.0004	-.41	232	1.50	-1.75	419	3.20	.33
102	5.71	-.82	009	0.0004	-.42	363	0.0004	-.50	423	1.46	-1.89	Avg	2.82	
368	0.00	-2.40	363	0.0004	-.76	105	0.0005 R	-.50	<u>Meth: 241.99 PCT Acid Soluble Iron Other</u>			393	2.37	-.24
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			402	0.0002	-.90	402	0.0002	-.57	105	2.24	.57	105	2.41 X	-.32
231	5.41	.71	368	0.0003	-.92	041	0.0000	-.70	422	2.24	.56	450	2.00	-.44
<u>Meth: 202.XX PPM Acid Soluble Cobalt</u>			<u>Meth: 221.00 PCT Acid Soluble Copper Atomic Absorption</u>			041	0.0000	-.70	105	2.22	.54	368	0.90	-1.07
136	16.50	1.83	043	1.0009 S1414.71		157	0.0000	-.70	105	2.21 X	.51	102	0.64	-1.16
096	12.50	.86	428	0.1145 S 161.62		<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>			096	2.21	.50	<u>Meth: 251.00 PPM Lead</u>		
009	12.25	.80	105	0.0005	.71	422	0.0080 s	14.60	102	2.07	.38	035	5.07	1.20
<u>Meth: 202.30 PPM Acid Soluble Cobalt ICP</u>			Avg	0.0005		324	0.0064	3.51	131	2.11	.29	419	3.20	.33
096	12.50	1.06	<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>			354	0.0025 R	.99	307	2.09	.22	Avg	2.82	
009	12.25	1.00	422	0.0080 s	14.60	035	0.0014	.21	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			393	2.37	-.24
035	11.75	.85	324	0.0064 s	11.43	095	0.0013	.1						

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 261.00 PCT</u>			<u>Meth: 261.XX PCT</u>			<u>Meth: 289.XX PPM</u>			<u>Meth: 291.XX PPM</u>			<u>Meth: 311.XX PCT</u>		
<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>			<u>Nickel</u>			<u>Sodium</u>		
AA			009	0.001	-.52	232	1.54	.37	105	13.70 X	.44	422	0.09	1.83
105	0.001	.00	419	0.001	-.52	Avg	1.32		009	13.60	.44	105	0.08 R	1.61
			354	0.000	-.52	102	1.09	-.27	368	12.50	.07	363	0.07	1.08
						231	0.79	-.62	Avg	12.28		Avg	0.04	
<u>Meth: 261.30 PCT</u>			<u>Meth: 281.30 PPM</u>			<u>Meth: 291.00 PPM</u>			<u>Meth: 301.30 PPM</u>			<u>Meth: 321.00 PCT</u>		
<u>Acid Soluble Manganese</u>			<u>Mercury</u>			<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>		
ICP			ICP			105	0.22 X	-1.28	102	12.05	-.13	232	0.02	-.67
423	7.565	2.40	393	1.02	.87				049	11.78	-.17	102	0.02	-.67
096	6.500 R	2.00	Avg	0.51		<u>Meth: 291.30 PPM</u>			393	11.25	-.31	009	0.02	-.73
041	4.000	1.04	450	0.00	-.87	<u>Nickel</u>			037	11.01 R	-.46	035	0.02	-.76
Avg	1.286					<u>Atomic Absorption</u>			232	8.88	-1.03			
422	0.003	-.49				136	17.00	.00	231	4.10	-2.48			
035	0.001	-.49	<u>Meth: 289.30 PPM</u>			<u>Meth: 291.30 PPM</u>			<u>Meth: 311.30 PCT</u>			<u>Atomic Absorption</u>		
102	0.001	-.49	<u>Molybdenum</u>			<u>Nickel</u>			<u>Selenium</u>			<u>Atomic Absorption</u>		
363	0.001	-.49	ICP			ICP			ICP			428	0.095	1.29
009	0.001	-.49	393	2.85	1.68	450	16.00	1.85	368	0.95 s	.00	Avg	0.033	
419	0.001	-.49	450	1.50	.59	035	14.45	1.05	393	0.00 X	.00	043	0.003	-.63
354	0.000	-.49	433	1.89	.56	009	13.60	.67	450	0.00	.00	105	0.001	-.66
			419	1.80	.46	105	13.70 X	.66	Avg	0.00				
			232	1.54	.31	368	12.50	.05				<u>Meth: 321.30 PCT</u>		
<u>Meth: 261.99 PCT</u>			<u>Meth: 289.99 PPM</u>			<u>Meth: 291.99 PPM</u>			<u>Meth: 311.30 PCT</u>			<u>Acid Soluble Zinc</u>		
<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>			<u>Nickel</u>			<u>Sodium</u>			<u>ICP</u>		
Other			102	1.09	-.38	419	12.00	-.25	105	0.08	.71	096	5.500 s	4880.79
393	3.365	.87	368	0.40	-1.27	102	12.05	-.30	105	0.08	.71	041	1.500 s	1353.11
Avg	1.683		105	0.22 X	-1.39	049	11.78	-.39				330	0.100 s	84.78
105	0.001 X	-.86				393	11.25	-.65				422	0.010 A	7.72
			<u>Meth: 289.99 PPM</u>			<u>Meth: 291.99 PPM</u>			<u>Meth: 311.99 PCT</u>			<u>ICP</u>		
			<u>Molybdenum</u>			<u>Nickel</u>			<u>Sodium</u>			<u>Other</u>		
			422	9.71 S	315.40	037	11.01	-.89	422	0.09 R	3.08	095	0.004	2.37
			231	0.79	.71	232	8.88	-1.89	363	0.07	1.99	324	0.003 R	1.89
			Avg	0.79					307	0.04	.36	035	0.003 R	1.50
			<u>Meth: 289.XX PPM</u>			<u>Meth: 291.99 PPM</u>			<u>Meth: 311.99 PCT</u>			<u>Other</u>		
			<u>Molybdenum</u>			<u>Nickel</u>			<u>Sodium</u>			<u>Other</u>		
			422	9.71 s	9.76	231	4.10	.71	Avg	0.03		231	0.001	-.26
			393	2.85	1.77	<u>Meth: 291.XX PPM</u>			232	0.02	-.53	402	0.001	-.29
			433	1.89	.66	<u>Nickel</u>			102	0.02	-.53	009	0.000	-.49
			450	1.50 R	.62	136	17.00	1.43	009	0.02	-.62	450	0.000	-.50
			419	1.80	.56	450	16.00	1.13	035	0.02	-.67	363	0.000	-.58
						035	14.45	.66				102	0.000	-.67
												232	0.000	-.68

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

Laboratory Averages & Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
Meth: 321.30 PCT											
Acid Soluble Zinc											
<u>ICP</u>											
419	0.000	-.85									
Meth: 321.99 PCT											
Acid Soluble Zinc											
<u>Other</u>											
105	0.001 X	.71									
Meth: 321.XX PCT											
<u>Acid Soluble Zinc</u>											
096	5.500 s	241.34									
041	1.500 s	66.72									
330	0.100	3.92									
428	0.095 R	3.72									
422	0.010	.11									
Avg	0.008										
095	0.004	-.16									
324	0.003 R	-.19									
035	0.003	-.21									
043	0.003	-.21									
354	0.003	-.21									
433	0.002	-.24									
105	0.001	-.28									
231	0.001	-.29									
402	0.001	-.29									
105	0.001 X	-.30									
009	0.000	-.30									
450	0.000	-.30									
363	0.000	-.30									
102	0.000	-.31									
232	0.000	-.31									
419	0.000	-.32									
Meth: 325.30 PCT											
Water Soluble Zinc											
<u>ICP</u>											
393	0.001	.00									

* 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	2	0.00	1.19	0.20	165.99	5	- 0.138	0.985	0.024
001.99	5	0.00	1.06	0.00	165.XX	5	- 0.138	0.985	0.024
001.XX	7	0.00	1.04	0.00	181.30	7	0.55	1.91	0.06
002.99	2	0.00	1.22	0.00	181.XX	8	0.65	2.07	0.10
002.XX	2	0.00	1.22	0.00	191.30	12	- 0.52	2.04	0.21
003.10	3	0.00	0.93	0.51	191.XX	13	- 0.32	1.47	0.14
003.XX	4	0.10	0.93	0.52	202.30	12	0.06	1.00	0.11
005.00	2	0.00	1.05	0.45	202.XX	14	0.04	0.99	0.09
005.99	2	0.00	1.20	0.19	221.00	3	525.30	774.44	6.5448
005.XX	4	0.00	1.06	0.16	221.30	15	1.9788	4.6970	0.3728
010.11	11	0.71	2.12	0.48	221.99	2	0.0000	1.1078	0.3693
010.12	4	0.00	1.06	0.18	221.XX	19	38.790	150.70	1.2131
010.16	2	0.00	1.06	0.43	241.00	2	0.00	1.21	0.14
010.60	53	0.15	1.15	0.39	241.30	11	- 0.04	0.96	0.27
010.99	2	0.00	1.18	0.22	241.XX	13	- 0.05	1.00	0.21
010.XX	70	0.21	1.23	0.37	251.30	7	0.00	1.01	0.24
020.20	5	0.03	0.94	0.04	251.XX	8	0.00	1.00	0.26
020.50	4	0.00	1.07	0.12	261.30	10	0.199	1.158	0.060
020.XX	11	33.65	111.17	0.20	261.99	2	0.000	1.222	0.053
041.50	5	43.41	97.06	1.15	261.XX	12	0.226	1.184	0.063
041.XX	7	34.62	91.90	1.09	281.30	2	0.00	1.22	0.02
050.00	12	- 0.34	1.52	0.18	281.XX	2	0.00	1.22	0.02
050.30	9	0.59	2.00	0.28	289.30	8	0.00	0.99	0.28
050.50	7	- 1.23	3.35	0.59	289.99	2	157.60	222.88	8.14
050.51	9	0.07	0.99	0.27	289.XX	10	1.00	3.21	0.28
050.60	8	0.37	1.43	0.21	291.30	11	0.00	1.00	0.19
050.61	9	0.10	2.19	0.92	291.XX	13	- 0.03	0.98	0.10
050.99	21	- 0.08	1.03	0.42	301.30	3	0.00	0.00	0.00
050.XX	69	- 0.22	1.59	0.40	301.XX	3	0.00	0.00	0.00
060.00	5	0.00	1.05	0.11	311.99	7	0.43	1.49	0.20
060.XX	6	7.14	17.52	0.10	311.XX	8	0.18	1.08	0.27
101.30	12	14.35	52.20	0.55	321.00	3	0.000	1.118	0.020
101.XX	13	13.82	51.82	0.55	321.30	17	358.11	1163.1	328.37
121.30	14	2.52	9.26	0.32	321.XX	20	14.994	53.181	14.986
121.XX	15	2.57	9.70	0.34					
144.99	8	0.00	1.03	0.08					
144.XX	8	0.00	1.03	0.08					
151.30	5	- 0.09	0.96	0.20					
151.XX	6	- 0.05	0.96	0.19					