

MAGRUDER - Fertilizer Check Sample No. - 200701 Grade 1-0-0

- 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	3	0.04	0.03	0.01	3	0.04	0.03	0.01
Ammoniacal Nitrogen, Other		001.99	3	0.14	0.10	0.01	3	0.14	0.10	0.01
Method Group 001.XX PCT			6	0.09	0.08	0.01	6	0.09	0.08	0.01
Nitrate Nitrogen, Other		002.99	1	0.27	0.02	0.03	1	0.27	0.02	0.03
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	1.45	0.01	0.02	1	1.45	0.01	0.02
Nitrogen From Urea, Other		005.99	2	1.37	0.03	0.01	2	1.37	0.03	0.01
Method Group 005.XX PCT			3	1.40	0.05	0.01	3	1.40	0.05	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	1	1.49	0.04	0.05	1	1.49	0.04	0.05
Ammon & Nitrate N, Other		009.99	1	0.14	0.00	0.00	1	0.14	0.00	0.00
Method Group 009.XX PCT			2	0.81	0.78	0.03	2	0.81	0.78	0.03
Total Nitrogen, Modified Comprehensive	978.02	010.11	6	1.47	0.04	0.01	6	1.47	0.04	0.01
Total Nitrogen, Salicylic	955.04D	010.12	3	1.47	0.04	0.01	3	1.47	0.04	0.01
Total Nitrogen, Combustion		010.60	47	1.48	0.10	0.04	43	1.49	0.09	0.03
Total Nitrogen, Other		010.99	4	1.51	0.13	0.04	4	1.51	0.13	0.04
Method Group 010.XX PCT			60	1.48	0.09	0.04	56	1.49	0.08	0.03
Total Phosphate, Spectrometric	958.01	020.20	6	0.20	0.21	0.01	5	0.19	0.23	0.00
Total Phosphate, Automated	978.01	020.40	2	0.48	0.44	0.02	2	0.48	0.44	0.02
Total Phosphate, ICP		020.50	5	0.08	0.05	0.01	5	0.08	0.05	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			14	0.18	0.25	0.01	12	0.12	0.16	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.34	0.01	0.01	1	0.34	0.01	0.01
InDir Available Phosphate, Automated ..	960.02	040.40	1	0.53	0.01	0.02	1	0.53	0.01	0.02
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	2	0.12	0.04	0.01	2	0.12	0.04	0.01
Dir Available Phosphate, ICP		041.50	3	0.05	0.06	0.01	3	0.05	0.06	0.01
Dir Available Phosphate, EDTA Extract .	993.01	041.60	2	0.19	0.10	0.03	2	0.19	0.10	0.03
Method Group 041.XX PCT			7	0.11	0.09	0.02	7	0.11	0.09	0.02
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	0.21	0.04	0.01	2	0.21	0.04	0.01
Soluble Potash, STPB Oxalate	958.02	050.00	2	1.26	0.21	0.12	2	1.26	0.21	0.12
Soluble Potash, STPB Citrate	969.04	050.10	1	1.74	0.01	0.01	1	1.74	0.01	0.01
Soluble Potash, AA (Oxalate)		050.30	2	1.30	0.09	0.04	2	1.30	0.09	0.04
Soluble Potash, ICP (Oxalate)		050.50	5	1.36	0.06	0.04	5	1.36	0.06	0.04
Soluble Potash, ICP (Citrate)		050.51	4	1.35	0.09	0.10	4	1.35	0.09	0.10
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	1	1.34	0.00	0.00	1	1.34	0.00	0.00
Soluble Potash, Other		050.99	5	1.36	0.12	0.13	4	1.35	0.04	0.05
Method Group 050.XX PCT			20	1.36	0.13	0.08	19	1.36	0.13	0.06
Free Water, Vacuum Oven	965.08B	060.00	4	1.77	1.97	0.06	4	1.77	1.97	0.06
Acid Soluble Calcium, AA	945.04	101.00	12	17.97	0.97	0.37	12	17.97	0.97	0.37
Acid Soluble Calcium, ICP		101.30	26	18.96	1.06	0.43	25	19.02	0.98	0.32
Acid Soluble Calcium, Titrimetric	945.03	101.70	1	19.51	0.01	0.01	1	19.51	0.01	0.01

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups
Method Group 101.XX PCT			39	18.67	1.12	0.40	38	18.70	1.08	0.33
Acid Soluble Magnesium, AA	984.01	121.00	16	2.73	0.16	0.09	15	2.73	0.15	0.06
Acid Soluble Magnesium, ICP		121.30	34	2.83	0.19	0.06	31	2.83	0.18	0.04
Acid Soluble Magnesium, Titrimetric ...	964.01	121.70	1	2.74	0.06	0.08	1	2.74	0.06	0.08
Method Group 121.XX PCT			51	2.80	0.19	0.07	47	2.80	0.17	0.05
Water Soluble Magnesium, AA		131.00	2	0.14	0.13	0.01	2	0.14	0.13	0.01
Water Soluble Magnesium, ICP		131.30	2	0.09	0.03	0.00	2	0.09	0.03	0.00
Method Group 131.XX PCT			4	0.11	0.09	0.01	4	0.11	0.09	0.01
Sulfur, Gravimetric	980.02a	144.01	17	10.76	0.38	0.18	16	10.79	0.34	0.13
Sulfur, Gravimetric	980.02b	144.02	3	10.74	0.42	0.07	3	10.74	0.42	0.07
Sulfur, Other		144.99	19	10.79	0.48	0.18	17	10.79	0.48	0.13
Method Group 144.XX PCT			39	10.77	0.43	0.17	35	10.75	0.35	0.12
Arsenic, Atomic Absorption		151.00	1	1.70	0.00	0.00	1	1.70	0.00	0.00
Arsenic, ICP		151.30	4	1.81	1.52	0.32	3	2.00	1.71	0.01
Arsenic, Other		151.99	1	2.06	0.13	0.18	1	2.06	0.13	0.18
Method Group 151.XX PPM			6	1.83	1.22	0.24	5	1.95	1.28	0.04
Acid Soluble Boron, Other		165.99	8	0.016	0.004	0.000	8	0.016	0.004	0.000
Cadmium, Atomic Absorption		181.00	1	0.08	0.04	0.05	1	0.08	0.04	0.05
Cadmium, ICP		181.30	7	2.09	1.36	0.14	7	2.09	1.36	0.14
Cadmium, Other		181.99	1	0.54	0.03	0.04	1	0.54	0.03	0.04
Method Group 181.XX PPM			9	1.69	1.42	0.12	8	1.45	1.30	0.08
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	2	1.12	0.14	0.01	2	1.12	0.14	0.01
Water Soluble Chlorine, Other		190.99	2	1.10	0.09	0.02	2	1.10	0.09	0.02
Method Group 190.XX PCT			4	1.11	0.11	0.02	4	1.11	0.11	0.02
Chromium, ICP		191.30	9	48.19	12.84	3.74	9	48.19	12.84	3.74
Chromium, Other		191.99	1	56.80	0.28	0.40	1	56.80	0.28	0.40
Method Group 191.XX PPM			10	49.05	12.43	3.41	10	49.05	12.43	3.41
Acid Soluble Cobalt, ICP	965.11	202.30	10	15.20	4.07	1.37	9	15.27	4.19	0.90
Acid Soluble Cobalt, Other		202.99	1	17.40	0.00	0.00	1	17.40	0.00	0.00
Method Group 202.XX PPM			11	15.40	3.93	1.24	10	15.48	4.02	0.81
Acid Soluble Copper, Atomic Absorption	975.01	221.00	6	0.0371	0.0028	0.0010	6	0.0371	0.0028	0.0010
Acid Soluble Copper, ICP		221.30	20	0.0364	0.0036	0.0020	18	0.0361	0.0034	0.0013
Acid Soluble Copper, Other		221.99	2	0.0322	0.0039	0.0006	2	0.0322	0.0039	0.0006
Method Group 221.XX PCT			28	0.0362	0.0036	0.0017	25	0.0361	0.0035	0.0010
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	16	5.25	0.26	0.10	15	5.28	0.22	0.06
Acid Soluble Iron, ICP		241.30	32	5.20	0.66	0.20	29	5.18	0.57	0.11
Acid Soluble Iron, Other		241.99	1	5.19	0.07	0.10	1	5.19	0.07	0.10
Method Group 241.XX PCT			49	5.21	0.55	0.16	45	5.22	0.48	0.10
Lead, Atomic Absorption		251.00	1	21.95	0.64	0.90	1	21.95	0.64	0.90

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Lead, ICP		251.30	9	24.60	4.49	2.85	9	24.60	4.49	2.85
Lead, Other		251.99	1	22.20	0.42	0.60	1	22.20	0.42	0.60
Method Group 251.XX PPM			11	24.14	4.16	2.47	11	24.14	4.16	2.47
Acid Soluble Manganese, AA	972.02a	261.00	10	0.094	0.008	0.002	9	0.093	0.008	0.001
Acid Soluble Manganese, AA	972.02b	261.11	2	0.096	0.004	0.005	2	0.096	0.004	0.005
Acid Soluble Manganese, ICP	972.02a	261.30	30	0.094	0.009	0.003	29	0.094	0.009	0.003
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.102	0.002	0.003	1	0.102	0.002	0.003
Acid Soluble Manganese, Spectrometric .	940.02	261.50	1	0.090	0.000	0.000	1	0.090	0.000	0.000
Acid Soluble Manganese, Other		261.99	5	0.092	0.006	0.004	5	0.092	0.006	0.004
Method Group 261.XX PCT			49	0.094	0.008	0.003	48	0.094	0.008	0.003
Mercury, Atomic Absorption		281.00	1	0.16	0.04	0.06	1	0.16	0.04	0.06
Mercury, Other		281.99	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Method Group 281.XX PPM			2	0.08	0.09	0.03	2	0.08	0.09	0.03
Molybdenum, ICP		289.30	11	4.40	1.00	0.38	11	4.40	1.00	0.38
Nickel, ICP		291.30	9	30.25	7.52	1.92	8	28.62	6.08	1.29
Selenium, ICP		301.30	1	2.25	0.35	0.50	1	2.25	0.35	0.50
Selenium, Other		301.99	2	0.11	0.05	0.06	2	0.11	0.05	0.06
Method Group 301.XX PPM			3	0.83	1.11	0.21	3	0.83	1.11	0.21
Sodium, Atomic Absorption	983.04	311.00	1	0.27	0.01	0.01	1	0.27	0.01	0.01
Sodium, Other		311.99	8	0.28	0.05	0.01	7	0.28	0.05	0.01
Method Group 311.XX PCT			9	0.28	0.05	0.01	8	0.28	0.05	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	17	0.130	0.008	0.004	16	0.129	0.007	0.003
Acid Soluble Zinc, ICP		321.30	32	0.128	0.013	0.006	30	0.127	0.012	0.005
Acid Soluble Zinc, Other		321.99	2	0.119	0.013	0.001	2	0.119	0.013	0.001
Method Group 321.XX PCT			52	0.127	0.012	0.005	46	0.127	0.011	0.003

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 005.99 PCT			Meth: 010.12 PCT			Meth: 010.60 PCT			Meth: 010.XX PCT		
Ammoniacal Nitrogen			Nitrogen From Urea			Total Nitrogen			Total Nitrogen			Total Nitrogen		
<u>MgO Distillation</u>			<u>Other</u>			<u>Salicylic</u>			<u>Combustion</u>					
324 0.08 1.25			Avg 1.37			185 1.51 1.03			073 1.49 -.42			405 2.11 s 7.35		
Avg 0.04			027 1.35 -.87			254 1.47 .08			177 1.45 -.51			096 2.01 s 6.20		
288 0.03 -.57			Meth: 005.XX PCT			Avg 1.47			136 1.45 -.53			428 1.66 2.01		
444 0.02 -.79			<u>Nitrogen From Urea</u>			137 1.42 -1.20			233 1.48 -.56			291 1.64 1.80		
			288 1.45 1.11			Meth: 010.60 PCT			307 1.45 -.58			262 1.64 1.79		
Meth: 001.99 PCT			309 1.40 .04			Total Nitrogen			406 1.45 -.58			041 1.63 1.60		
Ammoniacal Nitrogen			Avg 1.40			<u>Combustion</u>			372 1.45 -.64			043 1.61 1.42		
<u>Other</u>			027 1.35 -1.13			390 2.19 s 8.15			027 1.44 -.69			330 1.50 R 1.20		
372 0.27 1.29			Meth: 009.10 PCT			096 2.01 s 6.07			324 1.44 -.75			423 1.58 1.05		
Avg 0.14			Ammon & Nitrate N			428 1.66 1.94			377 1.43 -.76			037 1.58 1.02		
096 0.08 -.59			<u>Devarda</u>			360 1.64 1.78			007 1.45 -.78			230 1.56 .86		
420 0.08 -.70			030 1.49 .71			291 1.64 1.74			442 1.43 -.83			162 1.56 .84		
Meth: 001.XX PCT			Meth: 009.99 PCT			262 1.64 1.72			361 1.43 -.83			042 1.56 .77		
Ammoniacal Nitrogen			Ammon & Nitrate N			041 1.63 1.55			351 1.40 -1.06			288 1.55 .75		
372 0.27 2.03			<u>Other</u>			043 1.61 1.37			035 1.40 -1.20			095 1.55 .67		
Avg 0.09			420 0.14 .00			330 1.50 R 1.18			444 1.38 -1.43			234 1.53 .48		
096 0.08 -.11			Meth: 009.XX PCT			423 1.58 1.00			369 1.41 R -1.44			255 1.52 .36		
324 0.08 -.15			Ammon & Nitrate N			037 1.58 .97			425 1.35 -1.76			023 1.52 .34		
420 0.08 -.21			<u>Other</u>			230 1.56 .81			426 1.27 -2.64			185 1.51 .23		
288 0.03 -.75			030 1.49 .87			162 1.56 .80			325 1.20 A -3.46			296 1.51 .18		
444 0.02 -.85			Avg 0.81			042 1.56 .72						354 1.51 .18		
Meth: 002.99 PCT			420 0.14 -.87			095 1.55 .63			Meth: 010.99 PCT			009 1.50 .08		
Nitrate Nitrogen			Meth: 010.11 PCT			234 1.53 .44			Total Nitrogen			106 1.50 .08		
<u>Other</u>			Total Nitrogen			255 1.52 .32			<u>Other</u>			114 1.50 .08		
372 0.27 .71			<u>Modified Comprehensi</u>			023 1.52 .31			405 2.11 S 4.51			086 1.49 .04		
Meth: 005.00 PCT			309 2.20 S 17.18			296 1.51 .15			402 1.70 1.46			Avg 1.49		
Nitrogen From Urea			288 1.55 1.91			009 1.50 .06			Avg 1.51			029 1.49 -.01		
<u>Urease (as N)</u>			029 1.49 .43			106 1.50 .06			354 1.51 -.01			422 1.49 -.06		
288 1.45 .71			Avg 1.47			114 1.50 .06			300 1.45 -.57			389 1.49 -.19		
Meth: 005.99 PCT			105 1.47 -.20			Avg 1.49			420 1.38 -1.02			254 1.47 -.25		
Nitrogen From Urea			371 1.45 -.51			086 1.49 -.05			430 1.10 S -3.06			131 1.48 -.27		
<u>Other</u>			090 1.44 -.78			422 1.49 -.09						029 1.49 -.31		
309 1.40 .86			211 1.44 -.87			389 1.49 -.20			Meth: 010.XX PCT			105 1.47 -.31		
* X=Excluded from lab performance			S/s=Screened Outlier			131 1.48 -.29			Total Nitrogen			232 1.48 -.35		
			R=Duplicate Range too large			029 1.49 -.31			309 2.20 s 8.47			073 1.49 -.42		
			A=Analysis beyond 3-s limits			232 1.48 -.37			390 2.19 s 8.31			177 1.45 -.49		

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.XX PCT			Meth: 020.40 PCT			Meth: 030.40 PCT			Meth: 041.XX PCT			Meth: 050.50 PCT		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>			<u>Dir Available Phosph</u>			<u>Soluble Potash</u>		
371	1.45	-.49	<u>Automated</u>			<u>Automated</u>			377	0.02	-1.05	<u>ICP (Oxalate)</u>		
136	1.45	-.50	096	0.87	.87	096	0.34	.71	325	0.00	-1.22	324	1.30	-1.01
307	1.45	-.55	Avg 0.48			Meth: 040.40 PCT			Meth: 048.20 PCT			Meth: 050.51 PCT		
406	1.45	-.55	035	0.10	-.87	InDir Available Phos			Water Soluble Phosph			Soluble Potash		
233	1.48	-.56	Meth: 020.50 PCT			<u>Automated</u>			<u>Spectrometric</u>			<u>ICP (Citrate)</u>		
090	1.44	-.62	<u>Total Phosphate</u>			096 0.53 .71			096 0.25 .87			389 1.45 1.22		
372	1.45	-.62	<u>ICP</u>			Meth: 041.10 PCT			420 0.18 -.86			Avg 1.35		
027	1.44	-.67	255	0.15	1.38	Dir Available Phosph			Meth: 050.00 PCT			009 1.35 -.56		
211	1.44	-.67	330	0.10	.41	<u>Grav Quimociac</u>			Soluble Potash			377 1.35 -.56		
324	1.44	-.73	389	0.10	.36	185 0.15 .84			STPB Oxalate			444 1.26 -1.17		
377	1.43	-.74	Avg 0.08			Avg 0.12			296 1.43 .80			Meth: 050.60 PCT		
300	1.45	-.77	307	0.04	-.80	296 0.09 -.89			Avg 1.26			Soluble Potash		
007	1.45	-.77	422	0.02	-1.29	Meth: 041.50 PCT			009 1.10 -.93			<u>Flame (Oxalate)</u>		
442	1.43	-.81	Meth: 020.99 PCT			Dir Available Phosph			Meth: 050.10 PCT			309 0.80 S .00		
361	1.43	-.81	<u>Total Phosphate</u>			<u>ICP</u>			Soluble Potash			Meth: 050.61 PCT		
137	1.42	-.88	402	0.00	.00	354 0.13 1.29			STPB Citrate			Soluble Potash		
351	1.40	-1.04	<u>Other</u>			377 0.02 -.52			444 1.74 .71			<u>Flame (Citrate)</u>		
035	1.40	-1.19	Meth: 020.XX PCT			325 0.00 -.75			Meth: 050.30 PCT			035 1.34 .00		
055	1.45 R	-1.29	<u>Total Phosphate</u>			Meth: 041.60 PCT			Soluble Potash			Meth: 050.99 PCT		
444	1.38	-1.42	193	45.60 s	280.81	Dir Available Phosph			AA (Oxalate)			Soluble Potash		
369	1.41 R	-1.44	096	0.87 R	4.59	<u>EDTA Extract</u>			262 2.34 S 12.04			354 1.41 R 5.45		
420	1.38	-1.45	428	0.61	3.04	288 0.28 .86			428 1.37 .85			255 1.39 1.38		
425	1.35	-1.75	420	0.26 R	.84	Avg 0.19			Avg 1.30			232 1.38 .78		
426	1.27	-2.65	288	0.18	.36	296 0.10 -.88			185 1.23 -.89			Avg 1.35		
325	1.20 A	-3.48	255	0.15	.19	Meth: 041.XX PCT			Meth: 050.50 PCT			131 1.33 -.54		
430	1.10 s	-4.67	Avg 0.12			Dir Available Phosph			Soluble Potash			330 1.32 -.83		
Meth: 020.20 PCT			035 0.10 -.13			<u>EDTA Extract</u>			ICP (Oxalate)			402 0.00 S -30.65		
<u>Spectrometric</u>			389 0.10 -.13			288 0.28 1.87			422 1.45 1.47			325 0.00 S -30.65		
193	45.60 s	195.11	309 0.10 -.13			185 0.15 .47			292 1.39 .45			Meth: 050.XX PCT		
428	0.61	1.83	330 0.10 -.14			354 0.13 .27			420 1.34 -.43			Soluble Potash		
420	0.26 R	.30	324 0.05 -.44			Avg 0.11			307 1.32 -.97			<u>Soluble Potash</u>		
Avg	0.19		307 0.04 -.50			296 0.09 -.23			444 1.74 .71			262 2.34 s 7.80		
288	0.18	-.04	422 0.02 -.66			296 0.10 -.24			307 1.32 -.97			444 1.74 2.99		
309	0.10	-.38	262 0.00 -.75			307 1.32 -.97								
324	0.05	-.60	402 0.00 -.75											
262	0.00	-.81												
* 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.XX PCT			Meth: 101.00 PCT			Meth: 101.30 PCT			Meth: 101.XX PCT			Meth: 121.00 PCT		
<u>Soluble Potash</u>			Acid Soluble Calcium			Acid Soluble Calcium			<u>Acid Soluble Calcium</u>			Acid Soluble Magnesi		
354	1.41 R	1.89	<u>AA</u>			<u>ICP</u>			137	19.51	.74	<u>AA</u>		
389	1.45	.83	040	18.62	.78	102	18.21	-1.03	361	19.49	.72	028	2.89	1.05
422	1.45	.72	105	18.62	.70	027	17.97	-1.08	009	19.33	.58	073	2.89	1.04
296	1.43	.55	296	17.98	.06	292	17.78	-1.28	035	19.30	.55	177	2.86	.97
255	1.39	.46	Avg	17.97		041	17.55	-1.53	255	18.77	.44	296	2.87	.90
232	1.38	.24	029	17.95	-.03	022	17.11	-1.96	177	18.82	.12	029	2.85	.82
292	1.39	.22	351	17.88	-.10	307	17.37 R	-2.38	Avg	18.70		055	2.82	.57
428	1.37	.13	028	17.90	-.13	065	11.20 s	-8.07	106	18.68	-.10	043	2.80	.54
Avg	1.36		262	17.77	-.22	390	10.80 s	-8.44	360	18.60	-.12	040	2.76	.39
035	1.34	-.14	073	17.67	-.32	372	2.25 s	-17.20	105	18.62	-.21	351	2.77	.27
420	1.34	-.21	030	16.69	-1.36	Meth: 101.70 PCT			040	18.62	-.38	Avg	2.73	
131	1.33	-.23	095	16.07	-2.05	Acid Soluble Calcium			023	18.33	-.39	257	2.64	-.56
330	1.32	-.34	Meth: 101.30 PCT			Titrimetric			291	18.16	-.51	105	2.67	-.60
009	1.35	-.40	Acid Soluble Calcium			137 19.51 -.71			423	18.17	-.51	030	2.65	-.61
377	1.35	-.40	<u>ICP</u>			Meth: 101.99 PCT			296	17.98	-.68	309	2.60	-.85
307	1.32	-.48	042	23.28 s	4.53	Acid Soluble Calcium			027	17.97	-.68	425	2.47	-1.71
324	1.30	-.50	232	20.45	1.54	Other			029	17.95	-.70	262	2.41	-2.09
444	1.26	-.87	230	20.35	1.51	230 28.50 S .00			102	18.21	-.72	Meth: 121.30 PCT		
185	1.23	-1.07	090	20.09	1.11	300 2.04 S .00			028	17.90	-.75	Acid Soluble Magnesi		
009	1.10	-2.19	433	20.06	1.06	Avg 0.00			351	17.88	-.77	<u>ICP</u>		
309	0.80 s	-4.42	288	20.05	1.05	Meth: 101.XX PCT			292	17.78	-.86	330	4.74 s	10.84
325	0.00 s	-10.76	430	19.85	.85	Acid Soluble Calcium			262	17.77	-.87	422	3.55 s	4.09
402	0.00 s	-10.76	420	19.81	.80	230 28.50 s 9.10			073	17.67	-.96	390	3.15 R	1.98
Meth: 060.00 PCT			354	19.73	.74	042 23.28 s 4.37			041	17.55	-1.09	433	3.11	1.57
Free Water			324	19.72	.72	232 20.45 1.67			022	17.11	-1.48	300	3.10	1.52
<u>Vacuum Oven</u>			422	19.63	.62	230 20.35 1.64			030	16.69	-1.89	430	3.05	1.26
007	4.96	1.62	361	19.49	.47	090 20.09 1.29			307	17.37 R	-1.95	090	3.04	1.19
Avg	1.77		009	19.33	.32	433 20.06 1.25			095	16.07	-2.50	232	3.03	1.15
096	0.86	-.46	035	19.30	.28	288 20.05 1.25			065	11.20 s	-6.99	027	3.03	1.09
105	0.64	-.57	Avg	19.02		430 19.85 1.06			390	10.80 s	-7.32	354	2.99	.87
193	0.63	-.58	106	18.68	-.37	420 19.81 1.02			372	2.25 s	-15.23	042	2.98	.86
Meth: 101.00 PCT			360	18.60	-.45	043 19.73 .99			300	2.04 s	-15.42	389	2.98	.82
Acid Soluble Calcium			255	18.77	-.54	354 19.73 .96			Meth: 121.00 PCT			423	2.96	.72
<u>AA</u>			432	18.45	-.60	324 19.72 .94			Acid Soluble Magnesi			420	2.91	.63
043	19.73	1.84	023	18.33	-.73	422 19.63 .85			<u>AA</u>			432	2.89	.31
177	18.82	.87	291	18.16	-.89	095 2.82 R 1.70			307			2.88	.29	
* X=Excluded from lab performance			423	18.17	-.89	S/s=Screened Outlier			360			2.88	.25	
			R=Duplicate Range too large			A=Analysis beyond 3-s limits								

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 121.XX PCT			Meth: 144.01 PCT			Meth: 144.99 PCT		
<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>			<u>Sulfur</u>		
<u>ICP</u>									<u>Gravimetric</u>			<u>Other</u>		
009	2.84	.05	422	3.55 s	4.35	288	2.69	-.63	095	11.35	1.67	009	10.94	.42
Avg	2.83		390	3.15 R	2.19	372	2.67	-.74	055	11.19	1.26	361	10.88	.17
292	2.82	-.13	433	3.11	1.80	444	2.80 R	-.78	230	11.10	.95	177	10.82	.06
291	2.81	-.22	300	3.10	1.74	105	2.67	-.84	296	10.98	.56	Avg	10.79	
324	2.79	-.25	430	3.05	1.48	022	2.65	-.88	105	10.97	.55	330	10.78	-.04
023	2.79	-.25	095	2.82 R	1.42	257	2.64	-.89	324	10.93	.44	430	10.65	-.32
106	2.79	-.25	090	3.04	1.41	030	2.65	-.90	262	10.93	.40	027	10.64	-.32
361	2.79	-.29	232	3.03	1.36	426	2.62	-1.03	137	10.85	.21	291	10.65	-.33
037	2.77	-.36	027	3.03	1.31	309	2.60	-1.14	029	10.86	.19	372	10.60	-.40
131	2.76	-.44	354	2.99	1.09	035	2.53	-1.58	Avg	10.79		023	10.61	-.46
255	2.77	-.67	042	2.98	1.08	425	2.47	-1.90	043	10.78	-.15	307	10.60	-.46
444	2.80 R	-.80	389	2.98	1.03	041	2.45	-2.04	040	10.74	-.18	255	10.40 R	-1.03
288	2.69	-.82	423	2.96	.94	065	2.46 R	-2.09	444	10.67	-.46	422	10.31	-1.04
372	2.67	-.93	420	2.91	.79	262	2.41	-2.24	288	10.63	-.48	423	10.13	-1.41
022	2.65	-1.07	028	2.89	.54	230	1.69 s	-8.31	193	10.34	-1.34	131	10.11	-1.43
426	2.62	-1.22	177	2.86	.54	Meth: 131.00 PCT			106	10.26	-1.58	028	6.83 s	-8.23
035	2.53	-1.76	073	2.89	.52	Water Soluble Magnes			102	10.11	-2.10	300	5.05 s	-11.92
102	2.50	-1.91	432	2.89	.51	<u>AA</u>			030	10.26 R	-2.16	390	3.82 s	-14.53
041	2.45	-2.21	307	2.88	.50	029	0.25	.87	Meth: 144.02 PCT			Meth: 144.XX PCT		
065	2.46 R	-2.25	360	2.88	.45	Avg	0.14		<u>Sulfur</u>			<u>Sulfur</u>		
Meth: 121.70 PCT			296	2.87	.40	309	0.02	-.87	<u>Gravimetric</u>			<u>Sulfur</u>		
<u>Acid Soluble Magnesi</u>			009	2.84	.25	Meth: 131.30 PCT			260	11.06	.77	090	12.88 s	6.03
<u>Titrimetric</u>			043	2.80	.23	Water Soluble Magnes			292	10.95	.52	360	12.09 A	3.80
Avg	2.74		291	2.81	.19	<u>ICP</u>			Avg	10.74		035	11.40	1.83
137	2.74	-.71	292	2.82	.13	Avg			029	10.20	-1.28	095	11.35	1.72
230	1.69 S	-24.68	055	2.82	.10	432	0.12	.88	Meth: 144.99 PCT			389	11.30	1.58
Meth: 121.99 PCT			Avg	2.80		Avg	0.09		<u>Sulfur</u>			055	11.19	1.32
<u>Acid Soluble Magnesi</u>			324	2.79	-.05	027	0.07	-.86	<u>Other</u>			232	11.09 R	1.30
<u>Other</u>			106	2.79	-.07	Meth: 131.XX PCT			090			230	11.10	1.03
230	2.83 S	.00	023	2.79	-.08	Water Soluble Magnes			360			260	11.06	.87
Meth: 121.XX PCT			361	2.79	-.11	<u>ICP</u>			029			354	11.02	.81
<u>Acid Soluble Magnesi</u>			037	2.77	-.16	Avg			035			009	10.94	.67
330	4.74 s	11.21	351	2.77	-.16	029	0.25	1.49	389			296	10.98	.65
230	2.83 s	8.86	131	2.76	-.25	432	0.12	.06	232			105	10.97	.63
* X=Excluded from lab performance			040	2.76	-.36	Avg	0.11		292			292	10.95	.57
S/s=Screened Outlier			137	2.74	-.41	027	0.07	-.48	324			324	10.93	.53
R=Duplicate Range too large			255	2.77	-.59	309	0.02	-1.02	262			262	10.93	.49
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: 144.XX PCT			Meth: 151.30 PPM			Meth: 181.00 PPM			Meth: 190.00 PCT			Meth: 191.XX PPM		
<u>Sulfur</u>			<u>Arsenic</u>			<u>Cadmium</u>			<u>Water Soluble Chlori</u>			<u>Chromium</u>		
361	10.88	.35	<u>ICP</u>			<u>Atomic Absorption</u>			<u>Titrimetric</u>			009	64.50	1.25
137	10.85	.30	247	4.00	1.17	193	0.08	.71	422	1.24	.87	247	57.50	.68
029	10.86	.30	Avg 2.00			Meth: 181.30 PPM			Avg 1.12			035	57.25	.67
177	10.82	.20	096	1.80	-.12	<u>Cadmium</u>			102 1.00 -.86			409	56.80	.62
043	10.78	.16	065	1.23 R	-.58	<u>ICP</u>			Meth: 190.99 PCT			037	55.32	.56
330	10.78	.09	102	0.20	-1.06	324	8.25 S	4.52	<u>Water Soluble Chlori</u>			102	50.76	.23
Avg	10.75		Meth: 151.99 PPM			247	4.00	1.40	<u>Other</u>			Avg	49.05	
040	10.74	-.08	<u>Arsenic</u>			390	3.66	1.16	288	1.18	.87	106	48.50	-.13
027	10.64	-.31	<u>Other</u>			037	2.64	.41	Avg 1.10			324	41.45	-.66
430	10.65	-.32	409	2.06	-.71	Avg 2.09			009 1.03 -.86			232	36.55	-1.01
291	10.65	-.34	Meth: 151.XX PPM			009	2.05	-.05	Meth: 190.XX PCT			065	21.89 X	-2.19
288	10.63	-.35	<u>Arsenic</u>			035	1.23	-.63	<u>Water Soluble Chlori</u>			Meth: 202.30 PPM		
444	10.67	-.36	247	4.00	1.60	232	0.55	-1.13	Avg 1.11			<u>Acid Soluble Cobalt</u>		
372	10.60	-.42	409	2.06	.11	102	0.50	-1.16	009 1.03 -.78			<u>ICP</u>		
307	10.60	-.51	Avg 1.95			Meth: 181.99 PPM			Meth: 191.30 PPM			390	34.95 s	5.33
023	10.61	-.52	096	1.80	-.12	<u>Cadmium</u>			Chromium			037	22.06	1.62
193	10.34	-1.17	136	1.70	-.20	<u>Other</u>			ICP			009	20.40	1.23
422	10.31	-1.30	065	1.23 R	-.74	409	0.54	.71	009 64.50 1.28			035	17.85	.62
255	10.40 R	-1.31	102	0.20	-1.37	Meth: 181.XX PPM			247 57.50 .73			Avg	15.27	
106	10.26	-1.41	Meth: 165.99 PCT			<u>Cadmium</u>			035 57.25 .72			247	14.70	-.14
029	10.20	-1.57	<u>Acid Soluble Boron</u>			324	8.25 s	5.22	037 55.32 .60			106	15.00	-.25
423	10.13	-1.79	<u>Other</u>			247	4.00	1.96	102 50.76 .27			324	14.15	-.27
131	10.11	-1.82	105	0.024	1.98	390	3.66 R	1.70	106 48.50 .12			102	13.07	-.55
102	10.11	-1.91	106	0.020	.95	037	2.64	.92	Avg 48.19			065	14.52 R	-.69
030	10.26 R	-2.00	423	0.018	.38	009	2.05	.46	324 41.45 -.58			232	12.00	-.82
114	8.43 s	-6.55	Avg 0.016			Avg 1.45			232 36.55 -.91			372	8.21	-1.69
028	6.83 s	-11.07	288	0.015	-.36	035	1.23	-.17	065 21.89 X -2.05			Meth: 202.99 PPM		
300	5.05 s	-16.09	433	0.014	-.41	232	0.55	-.69	Meth: 191.99 PPM			<u>Acid Soluble Cobalt</u>		
390	3.82 s	-19.64	232	0.013	-.68	409	0.54	-.70	Chromium			390 34.95 s 5.51		
Meth: 151.00 PPM			422	0.012	-.93	102	0.50	-.73	<u>Other</u>			037 22.06 1.64		
<u>Arsenic</u>			409	0.012	-.95	193	0.08	-1.05	409 56.80 .71			009 20.40 1.23		
<u>Atomic Absorption</u>									A=Analysis beyond 3-s limits					
136	1.70	.00												

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 202.XX PPM			Meth: 221.30 PCT			Meth: 221.XX PCT			Meth: 241.30 PCT			Meth: 241.99 PCT		
<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>		
035	17.85	.59	<u>ICP</u>			Avg 0.0361			<u>ICP</u>			<u>Other</u>		
409	17.40	.48	288	0.0363	.07	105	0.0354	-.20	307	6.09 R	2.13	234	5.19	.71
Avg	15.48		Avg	0.0361		402	0.0355	-.22	390	6.12 R	1.73	Avg	5.19	
247	14.70	-.20	307	0.0360	-.23	307	0.0360	-.22	090	6.07	1.55	402	2.79 S	-34.01
106	15.00	-.28	065	0.0355	-.24	065	0.0355	-.22	035	6.05	1.52	Meth: 241.XX PCT		
324	14.15	-.33	232	0.0346	-.46	232	0.0346	-.44	255	5.96	1.36	<u>Acid Soluble Iron</u>		
102	13.07	-.63	433	0.0346	-.46	433	0.0346	-.44	330	5.69	.91	307	6.09 R	2.50
065	14.52 R	-.73	035	0.0352	-.93	095	0.0358	-.50	042	5.60	.82	390	6.12 R	2.01
232	12.00	-.90	009	0.0327	-1.01	043	0.0334	-.78	027	5.63	.78	090	6.07	1.79
372	8.21	-1.81	131	0.0322	-1.17	035	0.0352 R	-.90	354	5.61	.75	035	6.05	1.75
Meth: 221.00 PCT			041	0.0270	-2.69	009	0.0327	-.98	422	5.58	.69	255	5.96	1.57
<u>Acid Soluble Copper</u>			Meth: 221.99 PCT			131	0.0322	-1.13	361	5.57	.69	330	5.69	1.02
<u>Atomic Absorption</u>			<u>Acid Soluble Copper</u>			409	0.0288	-2.10	324	5.56	.65	425	5.68	.96
029	0.0407	1.29	<u>Other</u>			041	0.0270	-2.61	433	5.45	.47	042	5.60	.92
262	0.0400	1.02	402	0.0355	.87	Meth: 241.00 PCT			420	5.40	.39	027	5.63	.87
028	0.0373	.31	Avg	0.0322		<u>Acid Soluble Iron</u>			131	5.37	.33	354	5.61	.83
Avg	0.0371		409	0.0288	-.86	<u>Atomic Absorption</u>			009	5.35	.29	055	5.58	.77
105	0.0354	-.61	Meth: 221.XX PCT			425	5.68	1.81	372	5.19	.25	422	5.58	.75
095	0.0358	-.76	<u>Acid Soluble Copper</u>			055	5.58	1.37	432	5.27	.15	422	5.58	.75
043	0.0334	-1.33	354	0.0480 s	3.45	137	5.55	1.22	360	5.21	.08	361	5.57	.75
Meth: 221.30 PCT			106	0.0450 s	2.95	177	5.41	.61	106	5.19	.06	324	5.56	.71
<u>Acid Soluble Copper</u>			022	0.0400 R	1.62	040	5.37	.44	Avg	5.18		137	5.55	.70
<u>ICP</u>			029	0.0407	1.36	428	5.34	.27	232	5.16	-.09	433	5.45	.49
354	0.0480 S	3.53	073	5.32	.20	073	5.32	.20	423	5.07	-.21	177	5.41	.42
106	0.0450 s	3.02	262	5.31	.12	262	5.31	.12	291	4.94	-.43	420	5.40	.41
022	0.0400 R	1.65	Avg	5.28		428	5.34	.27	430	4.90	-.50	040	5.37	.33
102	0.0374 R	1.33	371	5.26	-.18	073	5.32	.20	102	4.95	-.56	131	5.37	.33
292	0.0400	1.15	028	5.21	-.37	262	5.31	.12	288	4.59	-1.04	009	5.35	.28
372	0.0400	1.15	043	5.18	-.61	Avg	5.28		444	4.40	-1.40	428	5.34	.26
389	0.0400	1.15	351	5.10	-.87	371	5.26	-.18	292	4.34	-1.49	073	5.32	.23
390	0.0395	1.01	105	5.03	-1.27	028	5.21	-.37	426	4.29	-1.57	262	5.31	.19
444	0.0380	.82	095	4.99	-1.37	043	5.18	-.61	023	4.03	-2.02	432	5.27	.12
324	0.0371	.56	029	4.95	-1.54	351	5.10	-.87	041	3.96	-2.16	371	5.26	.11
423	0.0375	.44	030	4.71 R	-3.00	105	5.03	-1.27	065	3.78 R	-2.54	Avg	5.22	
422	0.0375	.44	Meth: 221.99 PCT			095	4.99	-1.37	300	2.87 S	-4.06	028	5.21	-.03
330	0.0364	.32	<u>Acid Soluble Copper</u>			029	4.95	-1.54				360	5.21	-.09
* X=Excluded from lab performance			288	0.0363	.07	030	4.71 R	-3.00				106	5.19	-.10
S/s=Screened Outlier												234	5.19	-.12
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: 241.XX PCT			Meth: 251.30 PPM			Meth: 261.00 PCT			Meth: 261.30 PCT			Meth: 261.XX PCT		
<u>Acid Soluble Iron</u>			<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>		
232	5.16	-.15	<u>ICP</u>			<u>AA</u>			<u>ICP</u>			354	0.102	.97
043	5.18	-.18	106	23.00	-.57	193	0.083	-1.32	444	0.087	-.83	247	0.102	.94
351	5.10	-.26	037	20.83	-.84	095	0.080	-1.71	422	0.087	-.85	324	0.102	.93
372	5.19	-.30	035	17.00	-1.69	Meth: 261.11 PCT			307	0.084	-1.11	423	0.101	.86
423	5.07	-.32	Meth: 251.99 PPM			Acid Soluble Manganese			232	0.083	-1.24	009	0.101	.86
105	5.03	-.45	<u>Lead</u>			<u>AA</u>			065	0.083 R	-1.47	043	0.101	.85
095	4.99	-.49	<u>Other</u>			029	0.097	.24	426	0.081	-1.56	292	0.100	.73
029	4.95	-.56	409	22.20	.71	Avg	0.096		430	0.080	-1.62	262	0.100	.73
291	4.94	-.59	Meth: 251.XX PPM			040	0.095	-1.20	041	0.080	-1.64	028	0.099	.63
430	4.90	-.67	<u>Lead</u>			Meth: 261.30 PCT			Meth: 261.31 PCT			040	0.095	.62
102	4.95	-.72	065	45.61 s	5.59	Acid Soluble Manganese			Acid Soluble Manganese			291	0.095	.62
030	4.71 R	-1.24	324	30.45	1.52	<u>ICP</u>			<u>ICP</u>			420	0.095	.55
288	4.59	-1.32	247	30.00	1.49	432	0.135 s	4.71	Meth: 261.50 PCT			102	0.098	.53
444	4.40	-1.75	009	26.35	.83	390	0.113	2.16	Acid Soluble Manganese			255	0.096	.46
292	4.34	-1.86	232	25.45	.63	090	0.110	1.81	<u>Spectrometric</u>			257	0.098	.42
426	4.29	-1.95	444	25.64	.58	330	0.105	1.37				029	0.097	.35
023	4.03	-2.49	Avg	24.14		433	0.103	1.04				425	0.096	.34
041	3.96	-2.66	102	22.68	-.40	354	0.102	.90				360	0.095	.27
065	3.78 R	-3.11	409	22.20	-.47	247	0.102	.87				042	0.095	.26
300	2.87 s	-4.95	136	21.95	-.54	423	0.101	.79				131	0.095	.25
402	2.79 s	-5.12	106	23.00	-.55	009	0.101	.79	Meth: 261.99 PCT			027	0.096	.23
Meth: 251.00 PPM			Meth: 261.00 PCT			Meth: 261.30 PCT			Acid Soluble Manganese			Acid Soluble Manganese		
<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>AA</u>			<u>Other</u>			<u>Other</u>		
136			037			055			255			037		
21.95			20.83			0.105 R			0.096			0.095		
.71			-.80			1.65			.82			.19		
			-1.72			0.01			.63			Avg		
						0.098			.63			0.094		
						.49			.58			035		
						.25			.58			0.091		
						.23			.56			-.42		
						.21			.56			106		
						.18			.56			0.090		
									-1.67			-.50		
												361		
												0.090		
												372		
												0.090		
												137		
												0.090		
												300		
												0.090		
												402		
												0.092		
												-.59		
												444		
												0.087		
												-.88		
												422		
												0.087		
												-.90		
												296		
												0.086		
												-.98		
												307		
												0.084		
												-1.18		
												232		
												0.083		
												-1.32		

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	
Meth: 261.XX PCT			Meth: 289.30 PPM			Meth: 311.00 PCT			Meth: 321.00 PCT			Meth: 321.30 PCT			
<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>			<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			
193	0.083	-1.36	ICP			ICP			ICP			ICP			
065	0.083 R	-1.57	106	3.50	-1.04	262	0.27	.71	428	0.129	.82	022	0.130	.23	
409	0.081	-1.58	065	2.64 X	-1.86	Meth: 311.99 PCT			296	0.130	.57	420	0.129	.17	
426	0.081	-1.67	Meth: 291.30 PPM			<u>Sodium</u>			177	0.133	.50	Avg	0.127		
095	0.080	-1.73	<u>Nickel</u>			<u>Other</u>			028	0.131	.41	131	0.127	-.01	
430	0.080	-1.73	ICP			292	3.37 s	61.68	095	0.130	.15	423	0.127	-.13	
041	0.080	-1.75	390	43.30 R	2.48	422	0.40	2.34	040	0.130	.15	023	0.126	-.18	
Meth: 281.00 PPM			009	37.25	1.42	307	0.32 R	.83	262	0.130	.15	288	0.123	-.37	
<u>Atomic Absorption</u>			037	31.94	.55	Avg			0.28	Avg	0.129		037	0.122	-.40
193	0.16	.71	102	31.05	.41	288	0.27	-.28	105	0.127	-.38	292	0.125	-.44	
Meth: 281.99 PPM			106	30.00	.28	423	0.26	-.30	073	0.126	-.40	300	0.120	-.58	
<u>Mercury</u>			035	30.30	.28	102	0.26	-.31	043	0.125	-.55	422	0.116	-.91	
<u>Other</u>			Avg	28.62		009	0.26	-.34	234	0.125	-.87	232	0.116	-.92	
009	0.01	-.71	324	27.55	-.18	232	0.25	-.53	351	0.119	-1.31	041	0.115	-.98	
Meth: 281.XX PPM			232	24.80	-.64	035	0.25	-.62	425	0.112	-2.33	255	0.120 R	-.99	
<u>Mercury</u>			065	16.04 X	-2.10	Meth: 311.XX PCT			029	0.102 s	-3.94	027	0.112	-1.23	
<u>Atomic Absorption</u>			Meth: 301.30 PPM			<u>Sodium</u>			Meth: 321.30 PCT			035	0.110	-1.39	
193 0.16 .71			<u>Selenium</u>			292 3.37 s 65.94			<u>Acid Soluble Zinc</u>			065	0.112	-1.47	
Meth: 281.99 PPM			<u>ICP</u>			422 0.40 2.53			ICP			307	0.109	-1.50	
<u>Mercury</u>			247 2.25 .71			307 0.32 R .92			430 0.445 s 25.73			372	0.105	-1.84	
<u>Other</u>			Meth: 301.99 PPM			Avg 0.28			426 0.190 s 5.04			Meth: 321.99 PCT			
009 0.01 -.83			<u>Selenium</u>			262 0.27 -.26			291 0.155 S 3.02			<u>Acid Soluble Zinc</u>			
Meth: 289.30 PPM			<u>Other</u>			288 0.27 -.26			354 0.151 R 2.36			<u>Other</u>			
<u>Molybdenum</u>			409 0.14 1.11			423 0.26 -.28			433 0.151 1.89			402 0.130 .87			
<u>ICP</u>			Avg 0.11			102 0.26 -.30			361 0.145 1.50			Avg 0.119			
247 8.50 s 4.15			296 0.09 -.52			009 0.26 -.33			390 0.143 1.47			409 0.108 -.87			
037 6.06 1.67			Meth: 301.XX PPM			232 0.25 -.53			042 0.142 1.35			Meth: 321.XX PCT			
042 6.00 1.61			<u>Selenium</u>			035 0.25 -.63			247 0.141 1.10			<u>Acid Soluble Zinc</u>			
009 4.65 .29			247 2.25 1.30			Meth: 321.00 PCT			330 0.140 1.04			430 0.445 s 30.03			
102 4.58 .28			Avg 0.83			<u>Acid Soluble Zinc</u>			090 0.140 1.04			432 0.295 s 16.00			
430 4.45 .16			409 0.14 -.62			<u>Atomic Absorption</u>			389 0.135 .75			426 0.190 s 5.87			
Avg 4.40			296 0.09 -.66			055 0.140 R 2.04			102 0.136 .72			291 0.155 s 3.52			
433 4.31 -.10			Meth: 321.00 PCT			137 0.140 1.52			009 0.130 .41			354 0.151 R 2.74			
035 4.18 -.23			<u>Acid Soluble Zinc</u>			371 0.140 1.52			324 0.132 .35			433 0.151 2.19			
324 4.10 -.32			Avg 0.83			257 0.136 .97			360 0.129 .23			361 0.145 1.73			
232 3.95 -.52			409 0.14 -.62			106 0.130 .23			106 0.130 .23			390 0.143 R 1.70			
* 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>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
Meth: 321.XX PCT			Meth: 321.XX PCT											
<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>											
042	0.142	1.56	232	0.116	-1.10									
055	0.140 R	1.52	041	0.115	-1.17									
247	0.141	1.26	255	0.120 R	-1.17									
090	0.140	1.19	027	0.112	-1.45									
137	0.140	1.19	425	0.112	-1.47									
371	0.140	1.19	035	0.110	-1.65									
330	0.140	1.19	065	0.112 R	-1.74									
389	0.135	.86	307	0.109	-1.77									
102	0.136	.82	409	0.108	-1.85									
257	0.136	.81	372	0.105	-2.17									
428	0.129	.59	029	0.102 R	-2.59									
177	0.133	.48												
009	0.130	.47												
296	0.130	.45												
324	0.132	.39												
028	0.131	.38												
360	0.129	.26												
022	0.130	.25												
095	0.130	.25												
040	0.130	.25												
106	0.130	.25												
262	0.130	.25												
402	0.130	.20												
420	0.129	.18												
Avg	0.127													
131	0.127	-.04												
073	0.126	-.13												
423	0.127	-.16												
105	0.127	-.19												
023	0.126	-.23												
043	0.125	-.25												
288	0.123	-.46												
037	0.122	-.49												
234	0.125	-.52												
292	0.125	-.52												
300	0.120	-.70												
351	0.119	-.76												
422	0.116	-1.08												

* 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	3	0.00	1.09	0.20	131.XX	4	0.00	1.08	0.04
001.99	3	0.00	1.12	0.05	144.01	18	- 0.47	1.89	0.42
001.XX	6	0.00	1.05	0.06	144.02	3	0.00	1.11	0.09
005.99	2	0.00	1.21	0.11	144.99	23	- 1.33	4.34	0.35
005.XX	3	0.00	1.11	0.14	144.XX	43	- 1.03	4.49	0.46
009.XX	2	0.00	1.22	0.02	151.30	4	- 0.11	0.94	0.18
010.11	7	2.45	6.56	0.21	151.XX	6	- 0.09	0.98	0.20
010.12	3	0.00	1.07	0.27	165.99	8	0.000	1.032	0.074
010.60	49	0.19	1.79	0.37	165.XX	8	0.000	1.032	0.074
010.99	6	0.24	2.55	0.21	181.30	8	0.56	1.86	0.07
010.XX	64	0.33	2.23	0.35	181.XX	10	0.69	1.91	0.06
020.20	7	27.91	73.72	1.14	190.00	2	0.00	1.22	0.05
020.40	2	0.00	1.22	0.02	190.99	2	0.00	1.21	0.13
020.50	5	0.00	1.05	0.10	190.XX	4	0.00	1.08	0.09
020.XX	15	19.08	72.41	1.12	191.30	9	0.00	1.02	0.16
041.10	2	0.00	1.19	0.20	191.XX	10	0.00	1.01	0.15
041.50	3	0.00	1.11	0.13	202.30	11	0.41	1.69	0.80
041.60	2	0.00	1.21	0.14	202.XX	12	0.38	1.68	0.79
041.XX	6	0.03	1.13	0.10	221.00	6	0.0000	1.0030	0.2798
048.20	2	0.00	1.22	0.09	221.30	22	0.3494	1.2721	0.5600
048.XX	2	0.00	1.22	0.09	221.99	2	0.0000	1.2177	0.0927
050.00	2	0.00	1.12	0.35	221.XX	30	0.2431	1.1978	0.4796
050.30	3	4.01	6.99	0.44	241.00	16	- 0.17	1.17	0.39
050.50	5	0.00	0.95	0.42	241.30	33	- 0.10	1.32	0.32
050.51	4	0.00	0.87	0.56	241.99	2	- 17.01	24.05	0.50
050.99	7	- 8.57	15.10	2.06	241.XX	51	- 0.20	1.48	0.32
050.XX	22	- 0.81	3.80	0.65	251.30	10	0.47	1.73	0.73
060.00	4	0.00	1.08	0.01	251.XX	12	0.43	1.74	0.71
060.XX	4	0.00	1.08	0.01	261.00	10	0.152	1.075	0.245
101.00	12	0.00	0.98	0.27	261.11	2	0.000	0.317	0.836
101.30	30	- 1.03	3.91	0.47	261.30	31	0.108	1.289	0.291
101.99	2	0.00	0.00	0.00	261.99	5	0.000	0.956	0.410
101.XX	44	- 0.87	3.79	0.68	261.XX	50	0.072	1.202	0.299
121.00	16	0.04	0.96	0.47	281.XX	2	0.000	1.180	0.233
121.30	36	0.40	2.18	0.29	289.30	12	0.34	1.52	0.29
121.70	2	- 9.28	13.13	11.51	289.XX	12	0.34	1.52	0.29
121.XX	54	0.23	1.96	1.14	291.30	9	0.27	1.25	0.24
131.00	2	0.00	1.22	0.03	291.XX	9	0.27	1.25	0.24
131.30	2	0.00	1.21	0.13	301.99	2	0.00	0.71	0.71

Method Evaluation - Z Values Based on 1 Reports

<u>Method Code</u>	<u>Number Of Labs</u>	<u>Avg Bias of Labs</u>	<u>Std Dev of Biases</u>	<u>Std Dev Within Labs</u>	<u>Method Code</u>	<u>Number Of Labs</u>	<u>Avg Bias of Labs</u>	<u>Std Dev of Biases</u>	<u>Std Dev Within Labs</u>
301.XX	3	0.00	1.11	0.13					
311.99	9	6.94	20.55	0.24					
311.XX	10	6.68	20.84	0.25					
321.00	18	- 0.122	1.320	0.544					
321.30	36	1.330	4.906	0.641					
321.99	2	0.000	1.223	0.051					
321.XX	55	0.952	4.707	0.643					