

MAGRUDER - Fertilizer Check Sample No. - 200301 Grade 10-2-4

- Pass 1 Results for 68 Labs - - Pass 2 Results for 67 Labs -

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
Ammoniacal Nitrogen, MgO Distillation .	920.03	001.10	4	0.40	0.33	0.02	4	0.40	0.33	0.02
Ammoniacal Nitrogen, Other		001.99	3	1.77	1.56	0.04	3	1.77	1.56	0.04
Method Group 001.XX PCT			7	0.99	1.22	0.03	6	0.53	0.38	0.02
Water Insoluble Nitrogen, Meth I	945.01	003.10	3	5.73	0.25	0.13	3	5.73	0.25	0.13
Water Insoluble Nitrogen, Other		003.99	1	6.90	0.00	0.00	1	6.90	0.00	0.00
Method Group 003.XX PCT			4	6.02	0.58	0.10	4	6.02	0.58	0.10
Total Nitrogen, Reduced Iron		010.10	1	7.27	0.01	0.02	1	7.27	0.01	0.02
Total Nitrogen, Modified Comprehensive	978.02	010.11	6	7.41	0.22	0.05	7	7.49	0.28	0.04
Total Nitrogen, Salicylic	955.04D	010.12	7	7.41	0.24	0.13	6	7.38	0.21	0.05
Total Nitrogen, Combustion		010.60	43	7.44	0.11	0.06	41	7.44	0.11	0.05
Total Nitrogen, Other		010.99	5	7.38	0.21	0.06	5	7.38	0.21	0.06
Method Group 010.XX PCT			62	7.43	0.15	0.07	59	7.42	0.14	0.05
Total Phosphate, Grav Quimociac	962.02	020.10	6	2.85	0.26	0.06	5	2.87	0.28	0.02
Total Phosphate, Spectrometric	958.01	020.20	12	2.99	0.23	0.06	12	2.99	0.23	0.06
Total Phosphate, Alka Quimociac	969.02	020.30	1	2.80	0.02	0.03	1	2.80	0.02	0.03
Total Phosphate, Automated	978.01	020.40	6	3.09	0.29	0.12	6	3.09	0.29	0.12
Total Phosphate, ICP		020.50	2	2.87	0.60	0.08	2	2.87	0.60	0.08
Total Phosphate, Other		020.99	2	2.62	0.14	0.14	2	2.62	0.14	0.14
Method Group 020.XX PCT			29	2.94	0.30	0.08	27	2.96	0.29	0.06
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.19	0.01	0.02	1	0.19	0.01	0.02
Insoluble Phosphate, Automated	978.01	030.40	3	0.49	0.22	0.11	3	0.49	0.22	0.11
Insoluble Phosphate, Other		030.99	1	0.36	0.03	0.04	1	0.36	0.03	0.04
Method Group 030.XX PCT			5	0.41	0.20	0.08	4	0.37	0.20	0.03
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	3.11	0.01	0.01	1	3.11	0.01	0.01
InDir Available Phosphate, Spectrometri	960.02	040.20	1	3.27	0.08	0.11	1	3.27	0.08	0.11
InDir Available Phosphate, Automated ..	960.02	040.40	2	2.47	0.44	0.27	2	2.47	0.44	0.27
InDir Available Phosphate, Other		040.99	3	2.62	0.42	0.18	3	2.62	0.42	0.18
Method Group 040.XX PCT			7	2.74	0.45	0.17	7	2.74	0.45	0.17
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	13	2.39	0.16	0.12	12	2.36	0.12	0.08
Dir Available Phosphate, Alka Quim	960.03C	041.30	1	2.05	0.16	0.23	1	2.05	0.16	0.23
Dir Available Phosphate, Automated	978.01	041.40	4	2.58	0.19	0.02	4	2.58	0.19	0.02
Dir Available Phosphate, ICP		041.50	6	2.62	0.45	0.06	6	2.62	0.45	0.06
Dir Available Phosphate, EDTA Extract .	993.01	041.60	10	2.63	0.22	0.09	9	2.61	0.21	0.05
Dir Available Phosphate, Other		041.99	1	1.97	0.00	0.01	1	1.97	0.00	0.01
Method Group 041.XX PCT			35	2.50	0.29	0.09	32	2.48	0.29	0.06
Soluble Potash, STPB Oxalate	958.02	050.00	16	3.86	0.40	0.06	14	3.88	0.32	0.03
Soluble Potash, STPB Citrate	969.04	050.10	1	3.99	0.01	0.02	1	3.99	0.01	0.02
Soluble Potash, AA (Oxalate)		050.30	6	4.22	0.17	0.09	5	4.21	0.18	0.05
Soluble Potash, AA (Citrate)		050.31	1	4.45	0.07	0.10	1	4.45	0.07	0.10

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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
Soluble Potash, ICP (Oxalate)		050.50	6	4.14	0.37	0.12	6	4.14	0.37	0.12
Soluble Potash, ICP (Citrate)		050.51	5	4.38	0.42	0.06	5	4.38	0.42	0.06
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	4	4.24	0.15	0.04	4	4.24	0.15	0.04
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	5	4.26	0.28	0.07	5	4.26	0.28	0.07
Soluble Potash, Other		050.99	12	4.16	0.53	0.09	11	4.19	0.54	0.06
Method Group 050.XX PCT			57	4.10	0.43	0.08	53	4.13	0.42	0.06
Free Water, Vacuum Oven	965.08B	060.00	3	3.90	0.61	0.18	3	3.90	0.61	0.18
Free Water, Other		060.99	1	4.86	0.02	0.03	1	4.86	0.02	0.03
Method Group 060.XX PCT			4	4.14	0.68	0.14	4	4.14	0.68	0.14
Acid Soluble Calcium, AA	945.04	101.00	1	1.30	0.01	0.01	1	1.30	0.01	0.01
Acid Soluble Calcium, ICP		101.30	5	1.27	0.06	0.01	5	1.27	0.06	0.01
Acid Soluble Calcium, Other		101.99	1	1.38	0.01	0.01	1	1.38	0.01	0.01
Method Group 101.XX PCT			8	1.43	0.39	0.03	7	1.29	0.07	0.01
Acid Soluble Magnesium, AA	984.01	121.00	13	2.37	0.13	0.05	13	2.37	0.13	0.05
Acid Soluble Magnesium, ICP		121.30	17	2.41	0.11	0.04	16	2.40	0.10	0.03
Acid Soluble Magnesium, Other		121.99	4	2.30	0.18	0.06	4	2.30	0.18	0.06
Method Group 121.XX PCT			34	2.38	0.13	0.05	33	2.38	0.13	0.04
Water Soluble Magnesium, AA		131.00	2	1.83	0.27	0.01	2	1.83	0.27	0.01
Water Soluble Magnesium, ICP		131.30	3	1.83	0.36	0.00	3	1.83	0.36	0.00
Water Soluble Magnesium, Other		131.99	1	1.63	0.17	0.24	1	1.63	0.17	0.24
Method Group 131.XX PCT			6	1.80	0.30	0.04	5	1.83	0.31	0.00
Sulfur, Gravimetric	980.02a	144.01	7	4.29	0.13	0.08	6	4.31	0.12	0.05
Sulfur, Turbidimetric	63.845	144.50	1	4.19	0.04	0.05	1	4.19	0.04	0.05
Sulfur, Spectrometric		144.70	1	4.92	0.01	0.01	1	4.92	0.01	0.01
Sulfur, Other		144.99	16	4.59	0.41	0.09	16	4.59	0.41	0.09
Method Group 144.XX PCT			25	4.51	0.37	0.09	24	4.52	0.37	0.08
Arsenic, Atomic Absorption		151.00	1	80.50	7.32	10.35	1	80.50	7.32	10.35
Arsenic, ICP		151.30	4	54.19	23.11	2.39	4	54.19	23.11	2.39
Arsenic, Other		151.99	2	64.74	3.33	2.35	2	64.74	3.33	2.35
Method Group 151.XX PPM			7	60.96	19.64	3.51	7	60.96	19.64	3.51
Cadmium, Atomic Absorption		181.00	2	1.09	0.16	0.01	2	1.09	0.16	0.01
Cadmium, ICP		181.30	10	2.72	1.50	0.45	10	2.72	1.50	0.45
Cadmium, Other		181.99	1	1.75	0.07	0.10	1	1.75	0.07	0.10
Method Group 181.XX PPM			13	2.39	1.45	0.36	12	2.34	1.49	0.27
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	0.29	0.23	0.33	1	0.29	0.23	0.33
Water Soluble Chlorine, Other		190.99	1	0.37	0.00	0.00	1	0.37	0.00	0.00
Method Group 190.XX PCT			2	0.33	0.14	0.17	2	0.33	0.14	0.17
Chromium, Atomic Absorption		191.00	1	505.00	2.83	4.00	1	505.00	2.83	4.00
Chromium, ICP		191.30	9	567.65	46.12	16.41	9	567.65	46.12	16.41

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Chromium, Other		191.99	1	583.00	21.21	30.00	1	583.00	21.21	30.00
Method Group 191.XX PPM			11	563.35	46.05	16.52	11	563.35	46.05	16.52
Acid Soluble Cobalt, ICP	965.11	202.30	9	15.36	7.52	1.27	9	15.36	7.52	1.27
Acid Soluble Cobalt, Other		202.99	2	15.35	10.81	0.60	2	15.35	10.81	0.60
Method Group 202.XX PPM			11	15.36	7.90	1.15	11	15.36	7.90	1.15
Acid Soluble Copper, Atomic Absorption	975.01	221.00	8	0.018	0.001	0.001	7	0.018	0.001	0.000
Acid Soluble Copper, ICP		221.30	13	0.018	0.002	0.001	13	0.018	0.002	0.001
Acid Soluble Copper, Other		221.99	2	0.016	0.002	0.000	2	0.016	0.002	0.000
Method Group 221.XX PCT			23	0.018	0.002	0.001	22	0.018	0.002	0.000
Acid Soluble Iron, Atomic Absorption	980.01	241.00	15	5.23	0.36	0.12	13	5.33	0.17	0.07
Acid Soluble Iron, ICP		241.30	16	5.32	0.50	0.13	16	5.32	0.50	0.13
Acid Soluble Iron, Other		241.99	2	5.58	0.11	0.16	2	5.58	0.11	0.16
Method Group 241.XX PCT			33	5.30	0.43	0.13	32	5.31	0.43	0.11
Lead, Atomic Absorption		251.00	1	86.40	0.05	0.08	1	86.40	0.05	0.08
Lead, ICP		251.30	10	90.74	8.06	4.00	10	90.74	8.06	4.00
Lead, Other		251.99	1	97.22	17.80	25.17	1	97.22	17.80	25.17
Method Group 251.XX PPM			12	90.92	8.52	5.44	11	90.35	7.77	3.65
Acid Soluble Manganese, AA	972.02a	261.00	1	0.038	0.003	0.004	1	0.038	0.003	0.004
Acid Soluble Manganese, ICP	972.02a	261.30	6	0.035	0.002	0.001	6	0.035	0.002	0.001
Acid Soluble Manganese, Other		261.99	1	0.034	0.001	0.001	1	0.034	0.001	0.001
Method Group 261.XX PCT			8	0.035	0.002	0.001	7	0.035	0.002	0.001
Mercury, ICP		281.30	1	26.33	0.25	0.36	1	26.33	0.25	0.36
Mercury, Other		281.99	3	12.30	7.37	0.81	3	12.30	7.37	0.81
Method Group 281.XX PPM			4	15.81	9.00	0.70	4	15.81	9.00	0.70
Molybdenum, ICP		289.30	9	8.19	2.85	0.59	8	7.97	2.93	0.40
Molybdenum, Other		289.99	2	9.16	6.41	0.42	2	9.16	6.41	0.42
Method Group 289.XX PPM			11	8.36	3.55	0.56	10	8.21	3.68	0.40
Nickel, ICP		291.30	10	33.75	8.40	2.27	9	33.51	8.75	1.66
Nickel, Other		291.99	2	41.48	8.42	10.15	2	41.48	8.42	10.15
Method Group 291.XX PPM			12	35.04	8.73	3.58	11	34.73	8.60	2.21
Selenium, Atomic Absorption		301.00	1	2.65	0.11	0.16	1	2.65	0.11	0.16
Selenium, Other		301.99	3	2.93	1.47	1.04	3	2.93	1.47	1.04
Method Group 301.XX PPM			4	2.86	1.25	0.82	4	2.86	1.25	0.82
Sodium, Other		311.99	6	0.29	0.09	0.02	5	0.29	0.10	0.01
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	8	0.046	0.004	0.002	7	0.046	0.003	0.001
Acid Soluble Zinc, ICP		321.30	14	0.044	0.005	0.002	14	0.044	0.005	0.002
Acid Soluble Zinc, Other		321.99	3	0.042	0.004	0.002	3	0.042	0.004	0.002
Method Group 321.XX PCT			25	0.045	0.005	0.002	24	0.044	0.005	0.002
Water Soluble Zinc, ICP		325.30	1	0.048	0.001	0.001	1	0.048	0.001	0.001

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<u>Method</u>	<u>AOAC Ref.</u>	<u>Method Code</u>	<u>No. of Labs</u>	<u>Grand Avq.</u>	<u>Std. Dev.</u>	<u>Average Range of Dups</u>	<u>No. of Labs</u>	<u>Grand Avq.</u>	<u>Std. Dev.</u>	<u>Average Range of Dups</u>
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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 003.XX PCT			Meth: 010.60 PCT			Meth: 010.60 PCT			Meth: 010.XX PCT		
<u>Ammoniacal Nitrogen</u>			<u>Water Insoluble Nitr</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>			030	6.90	1.51	<u>Combustion</u>			<u>Combustion</u>			073	7.47 R	.97
220	0.85	1.38	029	6.03	.01	360	8.27 s	8.14	072	7.35	-.88	247	7.51	.79
029	0.51 X	.34	Avg	6.02		393	7.75	3.01	009	7.34	-.97	275	7.53	.77
Avg	0.40		090	5.64	-.69	022	7.65	2.14	035	7.40	-.98	029	7.52	.70
324	0.13	-.84	023	5.53	-.87	007	7.60 R	1.99	220	7.33	-1.01	090	7.51	.67
288	0.11	-.88	Meth: 010.10 PCT			034	7.59	1.42	023	7.34	-1.09	095	7.52	.66
Meth: 001.99 PCT			Total Nitrogen			027	7.57	1.37	041	7.30	-1.29	402	7.46	.58
<u>Ammoniacal Nitrogen</u>			<u>Reduced Iron</u>			157	7.57	1.28	390	7.30	-1.38	025	7.50	.57
<u>Other</u>			072	7.27	.71	073	7.47 R	1.28	409	7.27	-1.59	377	7.50	.57
030	3.75	1.27	Meth: 010.11 PCT			247	7.51	.97	Meth: 010.99 PCT			042	7.49	.49
Avg	1.77		Total Nitrogen			275	7.53	.90	<u>Total Nitrogen</u>			177	7.47	.42
415	1.12	-.42	<u>Modified Comprehensi</u>			029	7.52	.80	Total Nitrogen			330	7.45	.41
096	0.44	-.85	029	7.94 S	1.63	095	7.52	.75	<u>Other</u>			024	7.45	.41
Meth: 001.XX PCT			114	7.61 S	1.35	402	7.46	.74	415	10.05 S	12.50	096	7.47	.33
<u>Ammoniacal Nitrogen</u>			029	7.94 S	1.63	025	7.50	.65	354	7.74	1.73	028	7.46	.28
030	3.75 R	8.47	114	7.61 S	1.35	377	7.50	.65	177	7.43	.23	234	7.44	.20
415	1.12	1.56	322	7.78	1.06	042	7.49	.51	Avg	7.38		231	7.43	.15
220	0.85	.85	090	7.51	.18	024	7.45	.49	024	7.30	-.41	232	7.44	.15
Avg	0.53		Avg	7.41		330	7.45	.49	405	7.22	-.76	372	7.43	.10
029	0.51 X	-.05	220	7.41	-.29	177	7.47	.45	300	7.21	-.84	177	7.43	.06
096	0.44	-.23	105	7.40	-.33	096	7.47	.31	072	0.74 S	-31.09	Avg	7.42	
324	0.13	-1.05	288	7.29	-.74	028	7.46	.25	Meth: 010.XX PCT			220	7.41	-.16
288	0.11	-1.09	309	7.10	-1.40	234	7.44	.19	<u>Total Nitrogen</u>			105	7.40	-.18
Meth: 003.10 PCT			Meth: 010.12 PCT			Avg	7.44		415	10.05 s	18.34	106	7.39	-.25
<u>Water Insoluble Nitr</u>			Total Nitrogen			372	7.43	-.11	360	8.27 s	6.08	131	7.40	-.25
<u>Meth I</u>			<u>Salicylic</u>			232	7.44	-.14	029	7.94 s	3.59	040	7.39	-.25
029	6.03	1.18	137	7.82	2.11	231	7.43	-.20	137	7.82	2.80	043	7.38	-.29
Avg	5.73		398	7.56 R	1.72	131	7.40	-.45	114	7.61 s	2.78	296	7.37	-.35
090	5.64	-.60	Avg	7.38		040	7.39	-.48	322	7.78	2.49	233	7.37	-.39
023	5.53	-.87	416	7.34	-.24	106	7.39	-.49	398	7.56 R	2.37	055	7.37	-.40
Meth: 003.99 PCT			102	7.32	-.38	043	7.38	-.54	393	7.75	2.32	142	7.37	-.46
<u>Water Insoluble Nitr</u>			185	7.28	-.51	296	7.37	-.63	354	7.74	2.29	325	7.36	-.46
<u>Other</u>			397	7.28	-.52	233	7.37	-.68	022	7.65	1.68	324	7.37	-.50
030	6.90	.00	351	7.27	-.56	055	7.37	-.69	007	7.60 R	1.55	049	7.36	-.51
* X=Excluded from lab performance			S/s=Screened Outlier			142	7.37	-.75	034	7.59	1.15	072	7.35	-.54
			R=Duplicate Range too large			325	7.36	-.77	027	7.57	1.11	416	7.34	-.60
			A=Analysis beyond 3-s limits			324	7.37	-.79	157	7.57	1.05	009	7.34	-.61
						049	7.36	-.82	220	7.57	1.05	220	7.33	-.63

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.XX PCT			Meth: 020.20 PCT			Meth: 020.XX PCT			Meth: 030.40 PCT			Meth: 040.99 PCT		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>		
035	7.40	-.69	<u>Spectrometric</u>			142	4.34 s	4.68	<u>Automated</u>			<u>Other</u>		
023	7.34	-.71	234	2.95	-.27	390	3.51	1.86	096	0.68	.87	247	3.09	1.13
102	7.32	-.77	177	2.87	-.53	096	3.50	1.83	409	0.56	.64	Avg	2.62	
041	7.30	-.84	372	2.84	-.67	330	3.39	1.46	Avg	0.49		320	2.59	-.09
024	7.30	-.89	232	2.81	-.78	247	3.33	1.29				405	2.19	-1.10
390	7.30	-.91	231	2.79	-.86	090	3.30	1.15	Meth: 030.99 PCT			Meth: 040.XX PCT		
288	7.29	-.98	288	2.76	-1.02	397	3.24	.95	<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>		
185	7.28	-.99	030	2.75	-1.05	169	3.18	.77	<u>Other</u>			289		
397	7.28	-1.01	Meth: 020.30 PCT			035	3.12	.55	405	0.36	.71	3.27		
072	7.27	-1.05	<u>Total Phosphate</u>			309	3.10	.48				247	3.09	.80
409	7.27	-1.06	<u>Alka Quimociac</u>			324	3.09	.45				096	2.82	.24
351	7.27	-1.08	416	2.80	-.71	105	3.07	.37	Meth: 030.XX PCT			Avg		
405	7.22	-1.43				105	3.05	.32	<u>Insoluble Phosphate</u>			2.74		
300	7.21	-1.53				Avg	2.96		096	0.68	1.53	320	2.59	-.33
309	7.10	-2.24	Meth: 020.40 PCT			234	2.95	-.17	409	0.56 R	1.10	405	2.19	-1.27
072	0.74 s	-46.65	<u>Total Phosphate</u>			177	2.87	-.31	Avg	0.37				
			<u>Automated</u>			372	2.84	-.42	405	0.36	-.11			
Meth: 020.10 PCT			096	3.50	1.39	232	2.81	-.51	247	0.25	-.61	Meth: 041.10 PCT		
<u>Total Phosphate</u>			247	3.33	.86	042	2.87 R	-.53	090	0.19	-.88	<u>Dir Available Phosph</u>		
<u>Grav Quimociac</u>			035	3.12	.10	416	2.80	-.54				<u>Grav Quimociac</u>		
090	3.30	1.52	Avg	3.09		231	2.79	-.57	Meth: 040.10 PCT			028	12.14 s	82.88
105	3.07	.71	105	3.05	-.19	288	2.76	-.69	<u>InDir Available Phos</u>			322	4.15 s	15.14
Avg	2.87		042	2.87	-.86	030	2.75	-.73	<u>Grav Quim</u>			040	2.67 R	3.47
114	2.78 R	-.52	409	2.68	-1.43	114	2.78	-.73	090	3.11	.71	022	2.57	2.28
095	2.69	-.64	Meth: 020.50 PCT			320	2.69	-.93				296	2.40	.54
157	2.65	-.76	<u>Total Phosphate</u>			095	2.69	-.93	Meth: 040.20 PCT			105	2.41	.48
313	2.63	-.84	<u>ICP</u>			409	2.68	-.99	<u>InDir Available Phos</u>			072	2.39	.43
Meth: 020.20 PCT			330	3.39	.87	157	2.65	-1.04	<u>Spectrometri</u>			029	2.41	.41
<u>Total Phosphate</u>			Avg	2.87		313	2.63	-1.11	289	3.27	.71	131	2.38	.32
<u>Spectrometric</u>			402	2.35	-.87	405	2.55 R	-1.47				055	2.37	.11
142	4.34 s	5.80				402	2.35	-2.08	Meth: 040.40 PCT			Avg	2.36	
390	3.51	2.22	Meth: 020.99 PCT			Meth: 030.10 PCT			<u>InDir Available Phos</u>			009	2.34	-.19
397	3.24	1.06	<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>			<u>Automated</u>			185	2.33	-.38
169	3.18	.85	<u>Other</u>			<u>Grav Quimociac</u>			096	2.82	.81	049	2.34	-.39
309	3.10	.48	320	2.69	.51	090	0.19	.71	Avg	2.47		041	2.31	-.81
324	3.09	.44	Avg	2.62					409	2.12	-.92	102	2.12	-2.08
Avg	2.99		405	2.55	-1.11									

* 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: 041.30 PCT			Meth: 041.60 PCT			Meth: 041.XX PCT			Meth: 050.10 PCT			Meth: 050.51 PCT		
Dir Available Phosph			Dir Available Phosph			<u>Dir Available Phosph</u>			Soluble Potash			Soluble Potash		
<u>Alka Quim</u>			<u>EDTA Extract</u>			043 2.37 - .41			<u>STPB Citrate</u>			<u>ICP (Citrate)</u>		
260	2.05	.71	073	2.33	-1.38	027	2.35	-.46	322	3.99	-.71	377	4.11	-.65
						009	2.34	-.48				007	3.97	-1.00
Meth: 041.40 PCT			Meth: 041.99 PCT			049 2.34 -.50			Meth: 050.30 PCT			Meth: 050.60 PCT		
Dir Available Phosph			Dir Available Phosph			073 2.33 -.53			Soluble Potash			Soluble Potash		
<u>Automated</u>			<u>Other</u>			185 2.33 -.54			<u>AA (Oxalate)</u>			<u>Flame (Oxalate)</u>		
105	3.65 S	5.93	415	1.97	.71	041	2.31	-.64	185	4.50	1.68	169	4.43	1.30
131	2.85	1.38				102	2.12	-1.24	234	4.31 R	.99	390	4.30	.41
029	2.59	.03	Meth: 041.XX PCT			260	2.05	-1.54	095	4.23	.14	Avg	4.24	
Avg	2.58		<u>Dir Available Phosph</u>			415	1.97	-1.75	040	4.17	-.35	309	4.15	-.69
025	2.56	-.16	028	12.14 s	33.05	393	1.72	-2.61	142	4.14	-.40	288	4.08	-1.08
027	2.35	-1.25	322	4.15 s	5.71	072	1.22 s	-4.71	351	4.00	-1.18			
072	1.22 s	-7.77	105	3.65 s	4.18	Meth: 050.00 PCT			114	3.46 s	-4.72	Meth: 050.61 PCT		
			007	3.07	2.01	Soluble Potash			Meth: 050.31 PCT			Soluble Potash		
Meth: 041.50 PCT			397	2.89	1.42	<u>STPB Oxalate</u>			Soluble Potash			<u>Flame (Citrate)</u>		
Dir Available Phosph			325	2.88	1.35	043	4.50 R	1.94	Soluble Potash			041 4.65 1.37		
<u>ICP</u>			131	2.85	1.25	131	4.27	1.22	<u>AA (Citrate)</u>			025 4.44 .70		
007	3.07	1.00	351	2.84	1.23	102	4.21	1.03	030	4.45	.71	Avg	4.26	
325	2.88	.57	288	2.73 R	1.16	095	4.21	1.02	Meth: 050.50 PCT			105	4.25	-.11
354	2.75	.30	040	2.67 R	1.13	029	4.16	.86	Soluble Potash			029	4.07	-.69
023	2.71	.27	137	2.80	1.10	137	4.11	.72	<u>ICP (Oxalate)</u>			035	3.90	-1.29
Avg	2.62		106	2.75	.92	028	4.03	.48	402	4.51	1.04	Meth: 050.99 PCT		
360	2.59	-.07	354	2.75	.92	345	3.96	.26	324	4.41	.76	Soluble Potash		
393	1.72	-2.00	023	2.71	.83	072	3.93	.17	354	4.35	.57	<u>Other</u>		
			022	2.57 R	.66	Avg	3.88		106	4.22	.21	275	5.31 X	2.06
Meth: 041.60 PCT			377	2.58	.40	009	3.85	-.28	Avg	4.14		072	4.58	.75
Dir Available Phosph			029	2.59	.38	022	3.76	-.36	157	3.80	-.94	325	4.45	.47
<u>EDTA Extract</u>			360	2.59	.36	296	3.67	-.64	096	3.57	-1.61	177	4.31	.23
397	2.89	1.32	095	2.56	.32	231	3.55	-1.01	Meth: 050.51 PCT			232	4.23	.07
288	2.73 R	1.22	025	2.56	.26	055	3.35	-1.63	Soluble Potash			Avg	4.19	
351	2.84	1.07	Avg	2.48		372	3.23	-2.01	<u>ICP (Citrate)</u>			260	4.18	-.03
137	2.80	.88	296	2.43	-.22	090	3.05 R	-2.57	247	5.11	1.74	360	4.19	-.03
106	2.75	.64	029	2.41	-.24	049	2.62 S	-3.90	Avg	4.38		027	4.14	-.09
Avg	2.61		105	2.41	-.26	416	2.33 S	-4.79	393	4.36	-.06	415	4.11	-.15
377	2.58	-.33	296	2.40	-.35	Meth: 050.51 PCT			042	3.80 R	-.81	Meth: 050.51 PCT		
095	2.56	-.39	072	2.39	-.36	Soluble Potash			300	3.36	-1.54	Soluble Potash		
296	2.43	-.92	055	2.37	-.38	<u>ICP (Citrate)</u>			A=Analysis beyond 3-s limits			Other		
043	2.37	-1.20	131	2.38	-.38	247	5.11	1.74				275 5.31 X 2.06		
* X=Excluded from lab performance			S/s=Screened Outlier			R=Duplicate Range too large						072 4.58 .75		
												325 4.45 .47		
												177 4.31 .23		
												232 4.23 .07		
												Avg 4.19		
												260 4.18 -.03		
												360 4.19 -.03		
												027 4.14 -.09		
												415 4.11 -.15		
												042 3.80 R -.81		
												300 3.36 -1.54		

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.99 PCT			Meth: 050.XX PCT			Meth: 060.99 PCT			Meth: 101.XX PCT			Meth: 121.30 PCT		
Soluble Potash			<u>Soluble Potash</u>			Free Water			<u>Acid Soluble Calcium</u>			Acid Soluble Magnesi		
<u>Other</u>			137 4.11 -.04			<u>Other</u>			320 1.38 1.41			<u>ICP</u>		
289	3.25	-1.74	377	4.11	-.05	320	4.86	-.71	009	1.37	1.30	377	2.47	.73
			415	4.11	-.07				105	1.30	.24	023	2.47	.66
Meth: 050.XX PCT			288	4.08	-.12	Meth: 060.XX PCT			Avg	1.29		324	2.45	.47
<u>Soluble Potash</u>			029	4.07	-.15	<u>Free Water</u>			288	1.27	-.33	041	2.41	.06
275	5.31 X	2.83	028	4.03	-.24	320	4.86	1.06	102	1.26	-.44	Avg	2.40	
247	5.11	2.34	351	4.00	-.31	105	4.60	.76	035	1.23	-.98	288	2.40	-.26
041	4.65	1.24	322	3.99	-.34	Avg	4.14		247	1.21	-1.22	106	2.36	-.42
072	4.58	1.12	007	3.97	-.39	416	3.80	-.49	Meth: 121.00 PCT			009	2.35	-.47
402	4.51	.95	345	3.96	-.40	007	3.29	-1.25	<u>Acid Soluble Magnesi</u>			232	2.36	-.55
043	4.50	.92	072	3.93	-.48	Meth: 101.00 PCT			<u>AA</u>			096	2.33	-.77
185	4.50	.89	035	3.90	-.56	Acid Soluble Calcium			043	2.65	2.05	035	2.31	-.93
030	4.45	.78	009	3.85	-.71	<u>AA</u>			055	2.48	.79	393	2.26	-1.44
025	4.44	.77	157	3.80	-.79	105	1.30	.71	114	2.46	.67	157	2.22	-1.78
325	4.45	.76	022	3.76	-.88	Meth: 101.30 PCT			177	2.44	.49	Meth: 121.99 PCT		
169	4.43	.71	042	3.80 R	-.92	Acid Soluble Calcium			397	2.43	.41	Acid Soluble Magnesi		
324	4.41	.70	296	3.67	-1.10	<u>ICP</u>			029	2.40 X	.22	<u>Other</u>		
023	4.37	.61	096	3.57 R	-1.39	096	2.41 s	18.69	Avg	2.37		234	2.54	1.38
393	4.36	.55	231	3.55	-1.39	009	1.37	1.74	040	2.35	-.36	320	2.34	.28
234	4.31 R	.55	114	3.46 R	-1.81	288	1.27	.17	351	2.32	-.38	Avg	2.30	
354	4.35	.54	300	3.36	-1.85	Avg	1.27		296	2.37	-.42	300	2.23	-.37
177	4.31	.45	055	3.35	-1.87	102	1.26	-.13	105	2.33	-.44	415	2.08	-1.17
390	4.30	.40	289	3.25	-2.11	035	1.23	-.71	390	2.30	-.61	Meth: 121.XX PCT		
131	4.27	.35	372	3.23	-2.17	247	1.21	-.96	028	2.29	-.67	<u>Acid Soluble Magnesi</u>		
105	4.25	.30	090	3.05	-2.60	Meth: 101.99 PCT			289	2.08	-2.30	330	4.23 s	14.43
232	4.23	.23	049	2.62 s	-3.63	Acid Soluble Calcium			309	1.70 S	-5.03	043	2.65	2.12
095	4.23	.23	416	2.33 s	-4.32	<u>Other</u>			073	1.32 s	-7.89	231	2.62	1.85
106	4.22	.22	Meth: 060.00 PCT			415 5.23 S 389.03			Meth: 121.30 PCT			102	2.53 R	1.42
095	4.21	.20	Free Water			Avg 1.38			<u>Acid Soluble Magnesi</u>			234	2.54	1.35
102	4.21	.19	<u>Vacuum Oven</u>			320 1.38 -.71			<u>ICP</u>			360	2.50	1.00
360	4.19	.14	105	4.60	1.21	Meth: 101.XX PCT			330	4.23 s	18.07	247	2.49	.84
040	4.17	.14	Avg	3.90		<u>Acid Soluble Calcium</u>			231	2.62	2.12	055	2.48	.79
309	4.15	.13	416	3.80	-.15	415 5.23 s 60.07			102	2.53 R	1.62	377	2.47	.75
260	4.18	.13	007	3.29	-1.01	096 2.41 R 17.09			360	2.50	1.04	354	2.46	.74
029	4.16	.06				Meth: 101.99 PCT			247	2.49	.83	023	2.47	.71
142	4.14	.06				Acid Soluble Calcium			354	2.46	.74	114	2.46	.68
027	4.14	.03				415 5.23 s 60.07			A=Analysis beyond 3-s limits					
Avg	4.13					096 2.41 R 17.09								
* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large														

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 121.XX PCT			Meth: 131.30 PCT			Meth: 144.70 PCT			Meth: 144.XX PCT			Meth: 151.XX PPM		
<u>Acid Soluble Magnesi</u>			Water Soluble Magnes			Sulfur			<u>Sulfur</u>			<u>Arsenic</u>		
324	2.45	.56	<u>ICP</u>			<u>Spectrometric</u>			106	4.40	-.38	231	80.50	1.03
177	2.44	.48	360	1.93	.28	231	4.92	.71	247	4.37	-.42	247	73.50	.64
397	2.43	.40	Avg 1.83			Meth: 144.99 PCT			324	4.36	-.44	409	67.10	.31
288	2.40	.23	393	1.38	-1.23	Sulfur			157	4.33	-.51	102	65.04	.25
041	2.41	.21	Meth: 131.99 PCT			<u>Other</u>			040	4.32	-.53	040	62.39	.14
029	2.40 X	.20	Water Soluble Magnes			035	5.54	2.32	360	4.25	-.73	Avg	60.96	
Avg	2.38		<u>Other</u>			330	5.03	1.08	137	4.23	-.77	106	60.50	-.03
106	2.36	-.15	040	1.63	.71	377	4.95	.90	102	4.22	-.80	288	17.73	-2.20
009	2.35	-.19	Meth: 131.XX PCT			009	4.95	.90	096	4.19	-.90	Meth: 181.00 PPM		
232	2.36	-.29	<u>Water Soluble Magnes</u>			023	4.90	.75	289	4.19	-.90	<u>Cadmium</u>		
040	2.35	-.39	157	2.18	1.11	354	4.73	.45	043	4.19	-.90	<u>Atomic Absorption</u>		
320	2.34	-.42	029	2.06	.75	131	4.74	.41	028	4.18	-.93	397	1.22	.86
096	2.33	-.42	360	1.93	.32	029	4.67	.18	105	4.20 R	-.96	Avg	1.09	
351	2.32	-.43	Avg 1.83			Avg	4.59		409	4.15	-1.01	289	0.95	-.87
296	2.37	-.44	289	1.61	-.73	106	4.40	-.52	232	4.15	-1.03	Meth: 181.30 PPM		
105	2.33	-.49	040	1.63 R	-.75	247	4.37	-.57	Meth: 151.00 PPM			<u>Cadmium</u>		
035	2.31	-.56	393	1.38	-1.44	040	4.32	-.67	<u>Arsenic</u>			<u>ICP</u>		
390	2.30	-.66	Meth: 144.01 PCT			360	4.25	-.85	<u>Atomic Absorption</u>			231	80.50	-.71
028	2.29	-.73	Sulfur			096	4.19	-1.01	Meth: 151.30 PPM			231	12.19 s	6.29
393	2.26	-.95	<u>Gravimetric</u>			028	4.18	-1.04	<u>Arsenic</u>			247	5.50	1.88
300	2.23	-1.16	288	6.22 s	15.66	409	4.15	-1.11	<u>ICP</u>			009	5.10	1.58
157	2.22	-1.22	095	4.53	1.80	232	4.15	-1.13	Meth: 151.99 PPM			106	3.10	.53
415	2.08	-2.30	324	4.36	.40	Meth: 144.XX PCT			<u>Arsenic</u>			035	2.99	.42
289	2.08	-2.44	157	4.33	.18	<u>Sulfur</u>			247	73.50	.84	Avg	2.72	
309	1.70 s	-5.29	Avg	4.31		288	6.22 s	4.56	102	65.04	.48	157	2.20	-.35
073	1.32 s	-8.28	137	4.23	-.67	035	5.54	2.73	106	60.50	.27	096	2.20	-.37
Meth: 131.00 PCT			102	4.22	-.71	330	5.03	1.38	Avg	54.19		102	1.98	-.49
Water Soluble Magnes			043	4.19	-1.06	377	4.95	1.18	288	17.73	-1.58	324	1.70	-.68
<u>AA</u>			105	4.20 R	-1.58	009	4.95	1.18	Meth: 151.99 PPM			232	1.46	-.84
029	2.06	.87	Meth: 144.50 PCT			231	4.92	1.07	<u>Arsenic</u>			288	0.98	-1.16
Avg	1.83		Sulfur			023	4.90	1.02	<u>Other</u>			Meth: 181.99 PPM		
289	1.61	-.87	<u>Turbidimetric</u>			354	4.73	.65	409	67.10	.71	<u>Cadmium</u>		
Meth: 131.30 PCT			289	4.19	-.71	131	4.74	.63	Avg	64.74		<u>Other</u>		
Water Soluble Magnes			Avg			029	4.67	.39	040	62.39	-1.00	409	1.75	.71
<u>ICP</u>			S/s=Screened Outlier			095	4.53	.10	R=Duplicate Range too large					
157	2.18	.95	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: 181.XX PPM			Meth: 191.30 PPM			Meth: 202.30 PPM			Meth: 221.00 PCT			Meth: 221.XX PCT		
<u>Cadmium</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>		
231	12.19 s	6.63	<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			040	0.020	1.12
247	5.50	2.16	096	632.35	1.45	040	17.65	.37	296	0.018	.18	055	0.020	1.02
009	5.10	1.86	102	604.65	.80	324	17.75	.35	Avg	0.018		324	0.019	.80
106	3.10 R	.70	009	599.10	.68	Avg	15.36		028	0.017	-.79	105	0.018 R	.71
035	2.99	.58	324	587.50	.44	102	10.26	-.68	043	0.016	-.99	409	0.018	.25
Avg	2.34		288	578.28	.37	247	8.85	-.87	390	0.017	-1.02	073	0.018	.03
157	2.20	-.09	247	571.50	.11	232	8.65	-.89	Meth: 221.30 PCT			Avg	0.018	
096	2.20	-.16	Avg	567.65		288	4.23	-1.48	<u>Acid Soluble Copper</u>			029	0.018	-.03
102	1.98	-.24	231	522.98	-.98	Meth: 202.99 PPM			<u>ICP</u>			296	0.018	-.24
409	1.75	-.40	035	517.50	-1.22	<u>Acid Soluble Cobalt</u>			330	0.022	1.86	231	0.018	-.36
324	1.70	-.43	232	495.00	-1.58	<u>Other</u>			354	0.020	1.11	288	0.017	-.41
232	1.46	-.59	Meth: 191.99 PPM			409	24.70	.87	247	0.020	.89	402	0.017	-.57
397	1.22	-.75	<u>Chromium</u>			Avg	15.35		102	0.020	.88	106	0.017	-.58
288	0.98	-.92	<u>Other</u>			320	6.00	-.87	040	0.020	.82	232	0.017	-.72
289	0.95	-.93	409	583.00	.71	Meth: 202.XX PPM			040	0.020	.82	028	0.017	-.78
Meth: 190.00 PCT			Meth: 191.XX PPM			<u>Acid Soluble Cobalt</u>			324	0.019	.51	009	0.017	-.80
<u>Water Soluble Chlori</u>			<u>Chromium</u>			106	27.50	1.54	Avg	0.018		043	0.016	-.91
<u>Titrimetric</u>			096	632.35	1.55	409	24.70	1.18	231	0.018	-.56	390	0.017	-.92
105	0.29	-.71	102	604.65	.90	231	21.94	.84	288	0.017	-.64	157	0.016	-.96
Meth: 190.99 PCT			009	599.10	.78	009	21.40	.77	106	0.017	-.80	300	0.015	-1.82
<u>Water Soluble Chlori</u>			409	583.00	.54	040	17.65	.35	402	0.017	-.80	Meth: 241.00 PCT		
<u>Other</u>			324	587.50	.53	324	17.75	.34	232	0.017	-.94	<u>Acid Soluble Iron</u>		
009	0.37	.71	288	578.28	.43	Avg	15.36		009	0.017	-1.02	<u>Atomic Absorption</u>		
Meth: 190.XX PCT			247	571.50	.19	102	10.26	-.65	157	0.016	-1.17	397	5.62	1.65
<u>Water Soluble Chlori</u>			Avg	563.35		247	8.85	-.82	Meth: 221.99 PCT			028	5.59	1.46
009	0.37	.30	231	522.98	-.89	232	8.65	-.85	<u>Acid Soluble Copper</u>			055	5.50	.96
Avg	0.33		035	517.50	-1.14	320	6.00	-1.18	<u>Other</u>			073	5.35	.64
105	0.29	-1.19	157	505.00	-1.27	288	4.23	-1.41	409	0.018	.88	177	5.39	.35
Meth: 191.00 PPM			232	495.00	-1.48	Meth: 221.00 PCT			Avg	0.016		105	5.36	.17
<u>Chromium</u>			Meth: 202.30 PPM			<u>Acid Soluble Copper</u>			300	0.015	-.85	Avg	5.33	
<u>Atomic Absorption</u>			<u>Acid Soluble Cobalt</u>			<u>Atomic Absorption</u>			Meth: 221.XX PCT			220	5.33	-.06
157	505.00	.71	<u>ICP</u>			055	0.020	1.87	<u>Acid Soluble Copper</u>			029	5.31	-.14
* X=Excluded from lab performance			106	27.50	1.62	105	0.018 R	1.24	330	0.022	2.22	351	5.31	-.21
S/s=Screened Outlier			231	21.94	.88	073	0.018	.41	354	0.020	1.42	043	5.25	-.57
R=Duplicate Range too large			009	21.40	.81	029	0.018	.36	247	0.020	1.20	390	5.15	-1.10
A=Analysis beyond 3-s limits			Meth: 221.00 PCT			Meth: 221.XX PCT			102	0.020	1.18	296	5.16	-1.16
			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			114	5.04	-1.80			
			<u>ICP</u>			<u>Atomic Absorption</u>								
			096	632.35	1.45	040	17.65	.37						
			102	604.65	.80	324	17.75	.35						
			009	599.10	.68	Avg	15.36							
			324	587.50	.44	102	10.26	-.68						
			288	578.28	.37	247	8.85	-.87						
			247	571.50	.11	232	8.65	-.89						
			Avg	567.65		288	4.23	-1.48						
			231	522.98	-.98	Meth: 202.99 PPM								
			035	517.50	-1.22	<u>Acid Soluble Cobalt</u>								
			232	495.00	-1.58	<u>Other</u>								
			Meth: 191.99 PPM			409	24.70	.87						
			<u>Chromium</u>			Avg	15.35							
			<u>Other</u>			320	6.00	-.87						
			409	583.00	.71	Meth: 202.XX PPM								
			Meth: 191.XX PPM			<u>Acid Soluble Cobalt</u>								
			<u>Chromium</u>			106	27.50	1.54						
			096	632.35	1.55	409	24.70	1.18						
			102	604.65	.90	231	21.94	.84						
			009	599.10	.78	009	21.40	.77						
			409	583.00	.54	040	17.65	.35						
			324	587.50	.53	324	17.75	.34						
			288	578.28	.43	Avg	15.36							
			247	571.50	.19	102	10.26	-.65						
			Avg	563.35		247	8.85	-.82						
			231	522.98	-.89	232	8.65	-.85						
			035	517.50	-1.14	320	6.00	-1.18						
			157	505.00	-1.27	288	4.23	-1.41						
			232	495.00	-1.48	Meth: 221.00 PCT								
			Meth: 202.30 PPM			<u>Acid Soluble Copper</u>								
			<u>Acid Soluble Cobalt</u>			<u>Atomic Absorption</u>								
			<u>ICP</u>			055	0.020	1.87						
			106	27.50	1.62	105	0.018 R	1.24						
			231	21.94	.88	073	0.018	.41						
			009	21.40	.81	029	0.018	.36						

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.00 PCT			Meth: 241.XX PCT			Meth: 251.30 PPM			Meth: 261.00 PCT			Meth: 281.99 PPM		
Acid Soluble Iron			Acid Soluble Iron			Lead			Acid Soluble Manganese			Mercury		
<u>Atomic Absorption</u>			<u>Atomic Absorption</u>			<u>ICP</u>			<u>AA</u>			<u>Other</u>		
040	4.98 R	-3.00	102	5.61	.71	247	103.50	1.58	137	5.605 S	2187.12	040	21.64 X	1.27
289	4.18 A	-6.67	234	5.58	.71	102	98.49	1.08	Avg	0.038		Avg	12.30	
137	2.41 s	-16.90	028	5.59	.66	231	97.46	.85	105	0.038	-.71	409	9.10	-.44
			320	5.58	.65	288	94.05	.46				296	6.15	-.83
			354	5.50	.61	Avg	90.74		Meth: 261.30 PCT					
Meth: 241.30 PCT			377			009			Acid Soluble Manganese			Meth: 281.XX PPM		
Acid Soluble Iron			023			106			<u>ICP</u>			Mercury		
<u>ICP</u>			055			035			009			231		
330	6.15	1.66	009	5.46	.37	324	83.50	-.95	102	0.037	.81	040	21.64 X	.65
360	6.08	1.55	073	5.35	.28	232	82.05	-1.10	096	0.036	.64	Avg	15.81	
324	5.80	.97	177	5.39	.21	157	79.30	-1.42	Avg	0.035		409	9.10	-.75
102	5.61	.58	105	5.36	.13	Meth: 251.99 PPM			288	0.034	-.20	296	6.15	-1.07
354	5.50	.50	351	5.31	.06	Lead			035	0.034	-.33	Meth: 289.30 PPM		
377	5.52	.40	220	5.33	.04	<u>Other</u>			247	0.031	-1.84	Molybdenum		
023	5.51	.48	029	5.31	.01	040			Meth: 261.99 PCT			<u>ICP</u>		
009	5.46	.28	Avg	5.31		040			Acid Soluble Manganese			009		
Avg	5.32		041	5.29	-.06	Avg			Other			106		
041	5.29	-.07	043	5.25	-.18	409			320			102		
096	5.21	-.25	096	5.21	-.26	Meth: 251.XX PPM			0.034			247		
035	5.26	-.25	106	5.22	-.28	<u>Lead</u>			Meth: 261.XX PCT			157		
106	5.22	-.26	035	5.26	-.28	040			Acid Soluble Manganese			232		
157	4.78	-1.09	390	5.15	-.38	040			137			Avg		
288	4.75	-1.19	296	5.16	-.42	247			105			231		
232	4.70	-1.24	114	5.04	-.67	102			0.038 R			324		
247	4.31	-2.02	040	4.98 R	-1.18	231			1.09			288		
			157	4.78	-1.25	288			1.09			3.56		
			288	4.75	-1.36	009			.94			-1.51		
			232	4.70	-1.43	Avg			.76			Meth: 289.99 PPM		
			247	4.31	-2.34	106			0.035			Molybdenum		
			289	4.18	-2.65	397			288			<u>Other</u>		
			137	2.41 s	-6.81	035			0.034			409		
						324			-.13			14.70		
						035			-.27			Avg		
						232			-.58			9.16		
						157			-1.85			040		
						409			-1.09			3.62		
						Meth: 241.99 PCT			Meth: 281.30 PPM			-.87		
						Acid Soluble Iron			Mercury					
						<u>Atomic Absorption</u>			<u>ICP</u>					
						330			231					
						360			26.33					
						324			.71					

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 289.XX PPM			Meth: 291.XX PPM			Meth: 311.99 PCT			Meth: 321.30 PCT			Meth: 321.XX PCT		
<u>Molybdenum</u>			<u>Nickel</u>			<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
409	14.70	1.77	096	45.20	1.22	<u>Other</u>			<u>ICP</u>			409	0.039	-1.36
009	13.40	1.41	035	38.45 R	1.17	247	0.48	1.87	288	0.039	-1.10	402	0.035	-2.03
106	9.95 R	.55	409	44.50	1.14	096	0.30 R	.56	402	0.035	-1.81	Meth: 325.30 PCT		
102	9.14	.30	009	40.05	.62	Avg 0.29			Meth: 321.99 PCT			Water Soluble Zinc		
247	9.15	.27	157	39.00	.50	102	0.27	-.18	Acid Soluble Zinc			<u>ICP</u>		
157	8.70	.14	040	35.95	.47	320	0.24	-.45	<u>Other</u>			247	0.048	.71
232	8.40	.05	324	35.85	.16	035	0.23	-.60	320	0.046	1.06			
Avg	8.21		231	36.04	.16	009	0.23	-.65	Avg	0.042				
231	6.46	-.48	Avg	34.73		Meth: 321.00 PCT			300	0.040	-.34			
324	4.95	-.89	288	33.08	-.26	Acid Soluble Zinc			409	0.039	-1.12			
040	3.62	-1.25	102	34.22	-.31	<u>Atomic Absorption</u>			Meth: 321.XX PCT					
288	3.56	-1.27	247	19.50	-1.77	073	0.047 R	1.31	<u>Acid Soluble Zinc</u>					
			232	18.65	-1.87	055	0.050	1.17	330	0.054	1.98			
Meth: 291.30 PPM			Meth: 301.00 PPM			043	0.049	.76	324	0.051	1.36			
<u>Nickel</u>			<u>Selenium</u>			296	0.048	.59	055	0.050	1.18			
<u>ICP</u>			<u>Atomic Absorption</u>			028	0.046	.10	354	0.050	1.12			
096	45.20	1.34	231	2.65	.71	Avg	0.046		073	0.047 R	1.05			
009	40.05	.75	Meth: 301.99 PPM			029	0.046	-.10	040	0.048	.87			
157	39.00	.63	<u>Selenium</u>			105	0.044	-.45	043	0.049	.86			
040	35.95 R	.52	<u>Other</u>			390	0.039	-2.00	296	0.048	.73			
102	34.22	.31	409	4.45	1.34	Meth: 321.30 PCT			157	0.047	.55			
231	36.04	.29	Avg	2.93		Acid Soluble Zinc			096	0.046	.38			
324	35.85	.28	296	2.56	-.28	<u>ICP</u>			028	0.046	.36			
Avg	33.51		040	1.79	-.79	330	0.054	1.81	320	0.046	.26			
288	33.08	-.18	Meth: 301.XX PPM			324	0.051	1.25	029	0.046	.24			
247	19.50	-1.60	<u>Selenium</u>			354	0.050	1.03	Avg	0.044				
232	18.65	-1.70	409	4.45	1.62	040	0.048	.80	105	0.044	-.10			
			Avg	2.86		157	0.047	.52	035	0.044	-.19			
			231	2.65	-.18	096	0.046	.36	102	0.044	-.22			
			296	2.56	-.29	102	0.044	.20	009	0.042	-.45			
			040	1.79	-.87	Avg	0.044		231	0.042	-.60			
						035	0.044	-.16	106	0.041	-.78			
						009	0.042	-.39	300	0.040	-.86			
						231	0.042	-.52	390	0.039	-1.17			
						106	0.041	-.68	232	0.039	-1.20			
						232	0.039	-1.06	288	0.039	-1.25			

* 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	4	0.00	1.08	0.03	121.00	15	- 0.86	2.50	0.30
001.99	3	0.00	1.12	0.02	121.30	18	1.07	4.35	0.32
001.XX	7	1.21	3.34	0.05	121.99	4	0.00	1.05	0.23
003.10	3	0.00	1.05	0.32	121.XX	37	0.06	3.06	0.29
003.XX	4	0.00	1.07	0.12	131.00	2	0.00	1.22	0.01
010.11	8	0.06	0.97	0.46	131.30	3	0.00	1.12	0.00
010.12	7	0.12	1.00	0.58	131.XX	6	- 0.11	0.98	0.16
010.60	44	0.22	1.51	0.53	144.01	8	1.84	5.66	0.50
010.99	7	- 2.66	13.40	0.16	144.99	16	0.00	1.01	0.14
010.XX	61	0.26	3.38	2.83	144.XX	26	0.14	1.33	0.15
020.10	6	- 0.05	0.96	0.17	151.30	4	0.00	1.08	0.07
020.20	13	0.45	1.88	0.13	151.99	2	0.00	1.00	0.50
020.40	6	0.00	1.01	0.25	151.XX	7	0.00	1.03	0.12
020.50	2	0.00	1.22	0.07	181.00	2	0.00	1.22	0.04
020.99	2	0.00	0.72	0.70	181.30	11	0.57	2.12	0.22
020.XX	29	0.09	1.33	0.18	181.XX	14	0.51	1.99	0.20
030.40	3	0.00	1.04	0.34	190.XX	2	0.00	0.43	0.81
030.XX	5	0.18	1.02	0.29	191.30	9	0.00	1.00	0.25
040.40	2	0.00	1.12	0.35	191.XX	11	0.00	0.99	0.25
040.99	3	0.00	1.08	0.25	202.30	9	0.00	1.03	0.10
040.XX	7	0.00	1.01	0.24	202.99	2	0.00	1.22	0.04
041.10	15	6.71	21.45	0.76	202.XX	11	0.00	1.02	0.09
041.40	6	- 0.27	4.16	1.42	221.00	8	0.095	0.979	0.395
041.50	6	0.00	1.04	0.09	221.30	13	0.000	0.998	0.205
041.60	10	0.05	0.97	0.38	221.99	2	0.000	1.203	0.161
041.XX	34	1.19	5.82	0.64	221.XX	23	0.012	0.972	0.231
050.00	18	- 0.52	1.83	0.15	241.00	16	- 1.60	4.50	0.62
050.30	7	- 0.53	1.88	0.81	241.30	16	0.00	1.00	0.17
050.50	6	0.00	1.02	0.23	241.99	2	0.00	0.02	0.87
050.51	5	0.00	1.05	0.10	241.XX	34	- 0.22	1.52	0.23
050.60	4	0.00	1.06	0.20	251.30	10	0.00	0.96	0.34
050.61	5	0.00	1.05	0.15	251.99	2	- 2.39	3.38	0.50
050.99	12	- 0.06	0.99	0.14	251.XX	13	- 0.71	2.96	0.54
050.XX	56	- 0.21	1.24	0.21	261.00	2	1093.5	1546.5	1.476
060.00	3	0.00	1.09	0.21	261.30	6	0.000	1.034	0.161
060.XX	4	0.00	1.06	0.16	261.XX	9	287.26	861.32	0.836
101.30	6	3.11	7.68	0.41	281.99	3	0.00	1.12	0.06
101.99	2	194.51	275.09	0.50	281.XX	4	0.00	1.08	0.05
101.XX	9	8.57	20.14	0.32	289.30	9	0.08	0.99	0.15

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
289.99	2	0.00	1.22	0.04					
289.XX	11	0.04	0.98	0.11					
291.30	10	0.03	0.97	0.19					
291.99	2	0.00	0.51	0.79					
291.XX	12	0.04	0.97	0.36					
301.99	3	0.00	0.94	0.50					
301.XX	4	0.00	0.91	0.51					
311.99	6	0.01	0.95	0.23					
311.XX	6	0.01	0.95	0.23					
321.00	8	0.021	0.958	0.472					
321.30	14	0.000	0.988	0.239					
321.99	3	0.000	0.938	0.497					
321.XX	25	0.017	0.961	0.312					