

MAGRUDER - Fertilizer Check Sample No. - 200603 Grade 19-19-16 (A) 0-0-15 (B)

- Pass 1 Results for 74 Labs - - Pass 2 Results for 73 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	5	8.02	0.90	0.04	5	8.02	0.90	0.04
Ammoniacal Nitrogen, Other		001.99	9	8.00	0.74	0.40	8	7.95	0.54	0.08
Method Group 001.XX PCT			14	8.01	0.78	0.27	13	7.98	0.68	0.06
Nitrogen From Urea, Urease (as N)	959.03	005.00	2	12.94	0.67	0.43	2	12.94	0.67	0.43
Nitrogen From Urea, Other		005.99	5	14.83	3.12	0.16	4	15.37	3.29	0.05
Method Group 005.XX PCT			7	14.29	2.76	0.24	7	14.29	2.76	0.24
Percent Urea, Urease (as Urea)	959.03	007.00	1	12.63	0.04	0.05	1	12.63	0.04	0.05
Ammon & Nitrate N, Other		009.99	1	12.66	0.41	0.58	1	12.66	0.41	0.58
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	20.29	0.18	0.04	5	20.29	0.18	0.04
Total Nitrogen, Salicylic	955.04D	010.12	4	20.48	0.29	0.04	4	20.48	0.29	0.04
Total Nitrogen, Raney	970.03	010.16	1	20.35	0.02	0.03	1	20.35	0.02	0.03
Total Nitrogen, Comprehensive	970.02	010.17	1	20.30	0.13	0.19	1	20.30	0.13	0.19
Total Nitrogen, Combustion		010.60	44	20.50	0.25	0.10	43	20.49	0.24	0.10
Total Nitrogen, Other		010.99	5	20.32	0.38	0.17	6	20.17	0.49	0.16
Method Group 010.XX PCT			60	20.46	0.26	0.10	58	20.45	0.26	0.09
Total Phosphate, Grav Quimociac	962.02	020.10	4	19.01	0.30	0.08	4	19.01	0.30	0.08
Total Phosphate, Spectrometric	958.01	020.20	14	19.05	0.42	0.22	13	19.03	0.34	0.10
Total Phosphate, Alka Quimociac	969.02	020.30	1	19.03	0.08	0.12	1	19.03	0.08	0.12
Total Phosphate, Automated	978.01	020.40	4	19.13	0.19	0.06	4	19.13	0.19	0.06
Total Phosphate, ICP		020.50	10	18.94	0.47	0.40	9	18.96	0.44	0.29
Total Phosphate, Other		020.99	1	19.26	0.00	0.00	1	19.26	0.00	0.00
Method Group 020.XX PCT			34	19.03	0.39	0.23	32	19.03	0.34	0.14
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.05	0.00	0.00	1	0.05	0.00	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.04	0.01	0.02	1	0.04	0.01	0.02
Insoluble Phosphate, Other		030.99	2	0.04	0.02	0.03	2	0.04	0.02	0.03
Method Group 030.XX PCT			4	0.04	0.01	0.02	4	0.04	0.01	0.02
InDir Available Phosphate, Spectrometri	960.02	040.20	1	18.97	0.04	0.06	1	18.97	0.04	0.06
InDir Available Phosphate, Automated ..	960.02	040.40	1	18.98	0.01	0.02	1	18.98	0.01	0.02
InDir Available Phosphate, ICP		040.50	1	18.87	0.24	0.34	1	18.87	0.24	0.34
InDir Available Phosphate, Other		040.99	2	19.17	0.06	0.06	2	19.17	0.06	0.06
Method Group 040.XX PCT			5	19.03	0.15	0.11	5	19.03	0.15	0.11
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	15	19.20	0.21	0.15	14	19.17	0.16	0.13
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	18.78	0.28	0.39	1	18.78	0.28	0.39
Dir Available Phosphate, Automated	978.01	041.40	3	19.25	0.31	0.02	3	19.25	0.31	0.02
Dir Available Phosphate, ICP		041.50	8	19.24	0.54	0.12	8	19.24	0.54	0.12
Dir Available Phosphate, EDTA Extract .	993.01	041.60	10	19.07	0.15	0.07	10	19.07	0.15	0.07
Dir Available Phosphate, Other		041.99	1	19.21	0.12	0.18	1	19.21	0.12	0.18
Method Group 041.XX PCT			40	19.20	0.33	0.13	39	19.19	0.33	0.12
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	17.69	0.06	0.08	1	17.69	0.06	0.08

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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
Water Soluble Phosphate, Other		048.99	2	17.49	0.08	0.12	2	17.49	0.08	0.12
Method Group 048.XX PCT			3	17.55	0.13	0.11	3	17.55	0.13	0.11
Soluble Potash, STPB Oxalate	958.02	050.00	15	18.14	0.29	0.13	14	18.13	0.30	0.10
Soluble Potash, STPB Citrate	969.04	050.10	1	18.62	0.00	0.00	1	18.62	0.00	0.00
Soluble Potash, AA (Oxalate)		050.30	8	17.82	0.95	0.32	7	17.58	0.72	0.22
Soluble Potash, AA (Citrate)		050.31	1	18.32	0.04	0.05	1	18.32	0.04	0.05
Soluble Potash, ICP (Oxalate)		050.50	6	17.68	1.05	0.26	6	17.68	1.05	0.26
Soluble Potash, ICP (Citrate)		050.51	11	18.05	0.61	0.16	11	18.05	0.61	0.16
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	8	17.95	0.78	0.15	8	17.95	0.78	0.15
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	8	18.31	0.55	0.20	8	18.31	0.55	0.20
Soluble Potash, Other		050.99	9	17.96	0.41	0.11	8	17.98	0.43	0.07
Method Group 050.XX PCT			68	18.05	0.68	0.19	65	18.00	0.63	0.15
Free Water, Vacuum Oven	965.08B	060.00	5	0.86	0.20	0.03	5	0.86	0.20	0.03
Free Water, Other		060.99	1	0.95	0.11	0.16	1	0.95	0.11	0.16
Method Group 060.XX PCT			6	0.88	0.18	0.05	6	0.88	0.18	0.05
Acid Soluble Calcium, ICP		101.30	14	0.67	0.11	0.02	14	0.67	0.11	0.02
Acid Soluble Calcium, Other		101.99	1	0.64	0.01	0.02	1	0.64	0.01	0.02
Method Group 101.XX PCT			15	0.67	0.11	0.02	14	0.64	0.06	0.02
Acid Soluble Magnesium, AA	984.01	121.00	1	0.29	0.01	0.01	1	0.29	0.01	0.01
Acid Soluble Magnesium, ICP		121.30	12	0.27	0.01	0.00	12	0.27	0.01	0.00
Acid Soluble Magnesium, Other		121.99	1	0.32	0.04	0.05	1	0.32	0.04	0.05
Method Group 121.XX PCT			14	0.27	0.02	0.01	13	0.27	0.01	0.01
Sulfur, Gravimetric	980.02a	144.01	2	0.66	0.04	0.04	2	0.66	0.04	0.04
Sulfur, Other		144.99	11	0.64	0.03	0.01	11	0.64	0.03	0.01
Method Group 144.XX PCT			13	0.64	0.03	0.01	12	0.64	0.03	0.01
Arsenic, Atomic Absorption		151.00	1	5.15	0.07	0.10	1	5.15	0.07	0.10
Arsenic, ICP		151.30	6	5.61	0.76	0.35	6	5.61	0.76	0.35
Arsenic, Other		151.99	2	5.70	1.02	0.90	2	5.70	1.02	0.90
Method Group 151.XX PPM			9	5.58	0.77	0.45	8	5.48	0.69	0.29
Acid Soluble Boron, Spectrometric	982.01	165.00	7	14.792	0.756	0.193	7	14.792	0.756	0.193
Acid Soluble Boron, Titrimetric	949.02	165.70	1	15.155	0.021	0.030	1	15.155	0.021	0.030
Acid Soluble Boron, Other		165.99	19	15.267	0.640	0.275	17	15.296	0.589	0.161
Method Group 165.XX PCT			27	15.140	0.685	0.245	24	15.164	0.666	0.138
Water Soluble Boron, AA	52.950	171.00	1	15.270	0.028	0.040	1	15.270	0.028	0.040
Water Soluble Boron, Spectrometric	982.01	171.10	1	15.080	0.000	0.000	1	15.080	0.000	0.000
Water Soluble Boron, Titrimetric	949.03	171.70	1	15.000	0.000	0.000	1	15.000	0.000	0.000
Water Soluble Boron, Other		171.99	3	14.687	1.004	0.100	3	14.687	1.004	0.100
Method Group 171.XX PCT			6	14.902	0.718	0.057	5	15.200	0.185	0.028
Cadmium, Atomic Absorption		181.00	1	1.40	0.00	0.00	1	1.40	0.00	0.00

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Cadmium, ICP		181.30	9	1.44	0.25	0.15	8	1.43	0.23	0.09
Cadmium, Other		181.99	2	1.35	0.10	0.10	2	1.35	0.10	0.10
Method Group 181.XX PPM			12	1.43	0.22	0.13	11	1.41	0.20	0.09
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	12.36	0.06	0.09	1	12.36	0.06	0.09
Water Soluble Chlorine, Other		190.99	2	13.73	0.76	0.81	2	13.73	0.76	0.81
Method Group 190.XX PCT			3	13.27	0.92	0.57	3	13.27	0.92	0.57
Chromium, ICP		191.30	10	33.97	2.55	1.16	9	33.83	2.54	0.80
Chromium, Other		191.99	2	40.33	3.97	1.75	2	40.33	3.97	1.75
Method Group 191.XX PPM			12	35.03	3.64	1.26	11	35.01	3.75	0.97
Acid Soluble Cobalt, ICP	965.11	202.30	8	1.35	0.14	0.12	8	1.35	0.14	0.12
Acid Soluble Cobalt, Other		202.99	1	1.65	0.21	0.30	1	1.65	0.21	0.30
Method Group 202.XX PPM			9	1.39	0.17	0.14	9	1.39	0.17	0.14
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0.0007	0.0003	0.0001	3	0.0007	0.0003	0.0001
Acid Soluble Copper, ICP		221.30	7	0.0007	0.0009	0.0001	6	0.0005	0.0007	0.0000
Acid Soluble Copper, Other		221.99	1	0.0003	0.0001	0.0001	1	0.0003	0.0001	0.0001
Method Group 221.XX PCT			11	0.0006	0.0007	0.0001	10	0.0005	0.0006	0.0001
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	1	0.42	0.01	0.01	1	0.42	0.01	0.01
Acid Soluble Iron, ICP		241.30	13	0.37	0.01	0.00	12	0.37	0.01	0.00
Method Group 241.XX PCT			14	0.37	0.02	0.00	13	0.37	0.02	0.00
Lead, Atomic Absorption		251.00	1	1.70	0.00	0.00	1	1.70	0.00	0.00
Lead, ICP		251.30	1	2.60	0.00	0.00	1	2.60	0.00	0.00
Lead, Other		251.99	1	0.79	0.13	0.18	1	0.79	0.13	0.18
Method Group 251.XX PPM			3	1.70	0.81	0.06	3	1.70	0.81	0.06
Acid Soluble Manganese, AA	972.02a	261.00	1	0.014	0.001	0.002	1	0.014	0.001	0.002
Acid Soluble Manganese, ICP	972.02a	261.30	11	0.014	0.001	0.000	10	0.014	0.000	0.000
Acid Soluble Manganese, Other		261.99	1	0.016	0.000	0.000	1	0.016	0.000	0.000
Method Group 261.XX PCT			14	0.014	0.001	0.001	12	0.014	0.001	0.000
Mercury, Other		281.99	2	0.04	0.04	0.00	2	0.04	0.04	0.00
Molybdenum, ICP		289.30	8	5.44	0.22	0.22	8	5.44	0.22	0.22
Method Group 289.XX PPM			8	5.44	0.22	0.22	8	5.44	0.22	0.22
Nickel, ICP		291.30	9	5.93	1.25	0.93	8	5.97	1.16	0.60
Nickel, Other		291.99	1	9.91	1.39	1.97	1	9.91	1.39	1.97
Method Group 291.XX PPM			10	6.33	1.73	1.04	9	6.41	1.71	0.75
Selenium, ICP		301.30	1	0.50	0.00	0.00	1	0.50	0.00	0.00
Sodium, Other		311.99	7	0.40	0.02	0.01	7	0.40	0.02	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	5	0.003	0.001	0.000	5	0.003	0.001	0.000
Acid Soluble Zinc, ICP		321.30	12	0.003	0.001	0.000	12	0.003	0.001	0.000
Acid Soluble Zinc, Other		321.99	1	0.003	0.000	0.000	1	0.003	0.000	0.000
Method Group 321.XX PCT			18	0.003	0.001	0.000	16	0.003	0.001	0.000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 001.XX PCT			Meth: 009.99 PCT			Meth: 010.60 PCT			Meth: 010.60 PCT		
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Ammon & Nitrate N</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>			<u>Other</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>		
415	9.65	1.80	200	7.66	-.46	354	12.66	.71	028	20.98	2.01	177	20.33	-.67
309	8.10	.09	029	7.55	-.63	288	7.53	-.66	035	20.96	1.91	007	20.35	-.84
Avg	8.02		409	7.52	-.68	Meth: 010.11 PCT			073	20.95	1.88	043	20.28	-1.04
029	7.55	-.53	324	7.30	-.99	<u>Total Nitrogen</u>			057	20.82 R	1.59	351	20.10	-1.63
288	7.53	-.55	Meth: 005.00 PCT			<u>Modified Comprehensive</u>			157	20.78	1.17	389	20.05	-1.82
324	7.30	-.81	Nitrogen From Urea			309	20.60	1.69	049	20.63	.84	023	20.04	-1.90
Meth: 001.99 PCT			<u>Urease (as N)</u>			288	20.35	.39	231	20.67	.71	361	19.89	-2.49
<u>Ammoniacal Nitrogen</u>			288	13.45	.77	Avg			042	20.55	.66	428	19.45 s	-4.27
<u>Other</u>			Avg	12.94		029	20.21	-.45	369	20.51	.62	102	19.33 s	-4.80
106	20.45 S	23.25	220	12.43	-.95	405	20.17	-.64	251	20.64	.61	Meth: 010.99 PCT		
390	19.90 S	22.22	Meth: 005.99 PCT			114	20.12	-.93	247	20.63	.59	<u>Total Nitrogen</u>		
354	8.48 R	2.92	Nitrogen From Urea			322	19.19 S	-5.98	377	20.62	.55	<u>Other</u>		
434	9.26	2.44	<u>Other</u>			Meth: 010.12 PCT			425	20.60	.43	354	21.59 S	2.99
372	8.06	.22	434	20.57	1.58	<u>Total Nitrogen</u>			070	20.58	.37	409	20.75	1.30
Avg	7.95		Avg	15.37		<u>Salicylic</u>			040	20.57	.33	372	20.57	.82
220	7.88	-.13	029	14.33	-.32	434	20.92	1.54	324	20.53	.27	415	20.31	.29
096	7.77	-.34	309	14.10	-.39	Avg	20.48		296	20.53	.26	300	20.21	.17
247	7.72	-.45	354	12.66 R	-.83	416	20.45	-.11	131	20.54	.23	Avg	20.32	
376	7.70	-.46	220	12.50	-.87	185	20.33	-.54	055	20.53	.20	376	19.75	-.87
200	7.66	-.53	Meth: 005.XX PCT			254	20.22	-.90	233	20.53	.17	430	19.45 S	-1.50
409	7.52	-.81	Nitrogen From Urea			Meth: 010.16 PCT			Avg	20.49		Meth: 010.XX PCT		
Meth: 001.XX PCT			<u>Nitrogen From Urea</u>			<u>Total Nitrogen</u>			029	20.49	.00	<u>Total Nitrogen</u>		
<u>Ammoniacal Nitrogen</u>			434	20.57	2.27	<u>Raney</u>			406	20.47	-.12	354	21.59 s	4.59
106	20.45 s	18.24	029	14.33	.03	434			426	20.45	-.17	262	21.30 s	3.33
390	19.90 s	17.43	Avg	14.29		20.35			025	20.46	-.18	422	21.06	2.39
415	9.65	2.45	309	14.10	-.07	.71			096	20.47	-.22	028	20.98	2.08
354	8.48 R	2.28	288	13.45	-.30	Meth: 010.17 PCT			018	20.45	-.27	035	20.96	1.98
434	9.26	1.88	354	12.66	-.60	<u>Total Nitrogen</u>			034	20.45	-.27	073	20.95	1.95
309	8.10	.18	220	12.50	-.65	<u>Comprehensive</u>			232	20.41	-.33	434	20.92	1.84
372	8.06	.13	220	12.43	-.69	220			095	20.41	-.37	057	20.82 R	1.65
Avg	7.98		Meth: 007.00 PCT			20.30			041	20.39	-.42	409	20.75 R	1.52
220	7.88	-.14	Percent Urea			-.71			136	20.41	-.44	157	20.78	1.27
096	7.77	-.31	<u>Urease (as Urea)</u>			Meth: 010.60 PCT			423	20.37	-.59	049	20.63	.92
247	7.72	-.40	247	12.63	.71	<u>Total Nitrogen</u>			009	20.35	-.62	231	20.67	.85
376	7.70	-.41	S/s=Screened Outlier			<u>Combustion</u>			262	21.30 s	3.34	251	20.64	.75
* X=Excluded from lab performance			R=Duplicate Range too large			220			422	21.06	2.35	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: 020.50 PCT			Meth: 020.XX PCT		
<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>		
247	20.63	.72	220	20.30	-.70	<u>Spectrometric</u>			<u>ICP</u>			324	18.94	-.26
042	20.55	.71	043	20.28	-.85	200	19.10	.36	389	17.95	-2.31	035	18.92	-.31
377	20.62	.69	254	20.22	-.88	418	19.15 X	.36	Meth: 020.99 PCT			372	18.89	-1.06
369	20.51	.63	029	20.21	-.94	Avg 19.03			Total Phosphate			309	18.60	-1.24
309	20.60	.59	300	20.21	-.99	220	19.02	-.09	<u>Other</u>			300	18.54	-1.44
425	20.60	.57	405	20.17	-1.08	324	18.94	-.26	409	19.26	.00	376	18.49	-1.56
070	20.58	.51	114	20.12	-1.28	309	18.60	-1.24	Meth: 020.XX PCT			262	18.35	-2.02
372	20.57	.49	351	20.10	-1.38	376	18.49	-1.56	<u>Total Phosphate</u>			432	18.80 R	-2.15
040	20.57	.48	389	20.05	-1.56	262	18.35	-2.02	428	23.18 s	12.16	389	17.95	-3.14
330	20.50	.44	023	20.04	-1.63	Meth: 020.30 PCT			425	21.28 s	6.59	042	18.11 s	-3.63
296	20.53	.38	361	19.89	-2.18	Total Phosphate			369	19.31 R	2.73	Meth: 030.20 PCT		
324	20.53	.37	376	19.75	-2.72	<u>Alka Quimociac</u>			330	19.35	1.44	Insoluble Phosphate		
131	20.54	.37	428	19.45 s	-3.88	106	19.03	-.71	406	19.44	1.22	<u>Spectrometric</u>		
055	20.53	.33	430	19.45 s	-3.90	Meth: 020.40 PCT			193	19.39	1.08	220	0.05	.00
233	20.53	.32	102	19.33 s	-4.38	Total Phosphate			416	19.35	.96	Meth: 030.40 PCT		
096	20.47	.21	322	19.19 s	-4.90	<u>Automated</u>			232	19.33	.89	Insoluble Phosphate		
018	20.45	.19	Meth: 020.10 PCT			193	19.39	1.40	390	19.06	.84	<u>Automated</u>		
034	20.45	.19	Total Phosphate			247	19.17	.35	095	19.26	.69	096	0.04	.71
029	20.49	.17	<u>Grav Quimociac</u>			Avg 19.13			409	19.26	.69	Meth: 030.99 PCT		
025	20.46	.13	095	19.26	.83	096	19.02	-.54	231	19.23	.61	Insoluble Phosphate		
406	20.47	.09	114	19.16	.50	035	18.92	-1.06	288	19.15	.57	<u>Other</u>		
426	20.45	.04	405	19.09	.33	042	18.11 s	-6.80	392	19.20	.52	409	0.05	1.13
416	20.45	.04	Avg 19.01			Meth: 020.50 PCT			247	19.17	.45	Avg	0.04	
Avg	20.45		300	18.54	-1.57	Total Phosphate			114	19.16	.40	247	0.04	-.48
232	20.41	-.15	Meth: 020.20 PCT			<u>ICP</u>			418	19.15 X	.37	Meth: 030.XX PCT		
095	20.41	-.19	Total Phosphate			330	19.35	1.23	200	19.10	.36	<u>Insoluble Phosphate</u>		
041	20.39	-.24	<u>Spectrometric</u>			390	19.06	.69	426	19.12	.26	409	0.05	1.49
136	20.41	-.30	428	23.18 s	12.12	423	19.13	.51	405	19.09	.26	220	0.05	.44
434	20.35	-.40	425	21.28 S	6.56	426	19.12	.36	106	19.03	.18	Avg 0.04		
009	20.35	-.42	369	19.31 R	2.72	430	19.07	.26	430	19.07	.16	247	0.04	-.72
423	20.37	-.43	406	19.44	1.21	422	19.06	.24	422	19.06	.13	096	0.04	-.76
288	20.35	-.43	416	19.35	.95	157	19.02	.20	Avg 19.03					
162	20.34	-.45	232	19.33	.89	Avg 18.96			096	19.02	-.02			
325	20.34	-.46	231	19.23	.60	372 18.89			220	19.02	-.09			
177	20.33	-.47	288	19.15	.57	432 18.80 R			157	19.02	-.19			
185	20.33	-.48	392	19.20	.52	432 18.80 R			A=Analysis beyond 3-s limits					
415	20.31	-.53	* X=Excluded from lab performance			S/s=Screened Outlier			R=Duplicate Range too large					
007	20.35	-.69												

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 040.20 PCT			Meth: 041.10 PCT			Meth: 041.50 PCT			Meth: 041.XX PCT			Meth: 048.99 PCT		
<u>InDir Available Phos Spectrometri</u>			<u>Dir Available Phosph Grav Quimociac</u>			<u>Dir Available Phosph ICP</u>			<u>Dir Available Phosph</u>			<u>Water Soluble Phosph Other</u>		
220 18.97 .71			254 19.24 .42			251 18.18 S -2.01			415 19.21 .28			247 17.52 .64		
			131 19.24 .41			070 17.25 S -3.68			073 19.25 .27			Avg 17.49		
Meth: 040.40 PCT			Avg 19.17						009 19.25 .23			409 17.45 -1.05		
<u>InDir Available Phos Automated</u>			177 19.14 -.27			Meth: 041.60 PCT			260 19.26 .22					
096 18.98 .71			434 19.12 -.36			<u>Dir Available Phosph EDTA Extract</u>			254 19.24 .16			Meth: 048.XX PCT		
			040 19.15 -.70			018 19.65 s 3.94			131 19.24 .15			<u>Water Soluble Phosph</u>		
Meth: 040.50 PCT			296 19.09 -.71			073 19.25 1.23			351 19.23 .14			096 17.69 1.12		
<u>InDir Available Phos ICP</u>			322 19.06 -.72			351 19.23 1.03			Avg 19.19			Avg 17.55		
423 18.87 .71			029 19.13 -.97			177 19.16 .58			028 19.16 -.10			247 17.52 -.41		
			057 19.04 -1.19			028 19.16 .58			177 19.14 -.17			409 17.45 -1.03		
Meth: 040.99 PCT			049 18.93 -1.60			034 19.11 .52			434 19.12 -.22					
<u>InDir Available Phos Other</u>						136 19.10 .31			136 19.10 -.29			Meth: 050.00 PCT		
409 19.21 .72			Meth: 041.20 PCT			Avg 19.07			034 19.11 -.32			<u>Soluble Potash</u>		
Avg 19.17			<u>Dir Available Phosph Spectrometric</u>			043 19.07 -.30			040 19.15 -.36			<u>STPB Oxalate</u>		
247 19.14 -.99			055 18.78 .71			296 19.02 -.46			296 19.09 -.39			102 18.75 2.09		
			Meth: 041.40 PCT			057 18.86 -1.50			131 19.06 -.39			392 18.60 1.57		
Meth: 040.XX PCT			<u>Dir Available Phosph Automated</u>			288 18.80 -1.82			043 19.07 -.40			095 18.39 .92		
<u>InDir Available Phos</u>			025 19.65 1.29						322 19.06 -.40			055 18.17 R .82		
409 19.21 1.15			Avg 19.25			Meth: 041.99 PCT			029 19.03 -.48			057 18.26 .77		
247 19.14 .72			131 19.06 -.60			<u>Dir Available Phosph Other</u>			029 19.13 -.49			220 18.23 .33		
Avg 19.03			029 19.03 -.69			415 19.21 .71			296 19.02 -.54			418 18.14 X .02		
096 18.98 -.35									057 19.04 -.62			Avg 18.13		
220 18.97 -.45			Meth: 041.50 PCT			Meth: 041.XX PCT			049 18.93 -.84			114 18.11 -.21		
423 18.87 -1.52			<u>Dir Available Phosph ICP</u>			<u>Dir Available Phosph</u>			057 18.86 -1.03			416 18.03 -.35		
			377 20.03 1.45			377 20.03 2.59			354 18.84 -1.07			049 18.03 -.43		
Meth: 041.10 PCT			043 19.71 .87			185 19.85 2.03			288 18.80 -1.19			009 18.00 -.47		
<u>Dir Available Phosph Grav Quimociac</u>			325 19.48 .50			043 19.71 1.63			055 18.78 -1.40			029 17.96 -.61		
185 19.85 s 4.24			023 19.49 .47			055 19.63 R 1.58			009 18.73 -1.40			043 17.89 -.84		
055 19.63 R 3.31			007 19.30 .28			018 19.65 1.50			361 18.36 -2.56			231 17.89 -.85		
041 19.52 2.20			Avg 19.24			025 19.65 1.41			251 18.18 s -3.21			296 17.65 -1.65		
102 19.26 1.04			354 18.84 -.74			041 19.52 1.03			070 17.25 s -5.99					
009 19.25 .55			009 18.73 -.94			325 19.48 .99						Meth: 050.10 PCT		
260 19.26 .54			361 18.36 -1.63			023 19.49 .95			Meth: 048.20 PCT			<u>Soluble Potash</u>		
* X=Excluded from lab performance						007 19.30 .55			<u>Water Soluble Phosph Spectrometric</u>			<u>STPB Citrate</u>		
						102 19.26 .49			096 17.69 .71			322 18.62 -.71		

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: 050.30 PCT			Meth: 050.51 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
<u>AA (Oxalate)</u>			<u>ICP (Citrate)</u>			<u>Other</u>								
369	19.47 R	2.71	Avg	18.05		432	19.35 s	3.68	247	18.31	.51	040	17.47	-.90
262	18.80	1.69	070	17.99	-.10	260	18.42	1.04	389	18.30	.51	131	17.41	-.94
193	18.17	.82	361	17.71	-.57	177	18.39	.96	254	18.32	.50	376	17.39	-.96
136	17.81	.32	009	17.74	-.57	325	18.33	.82	055	18.23	.48	200	17.32	-1.08
Avg	17.58		007	17.61	-.76	247	18.31	.81	055	18.17	.47	185	17.25	-1.25
040	17.47	-.33	251	16.89	-1.93	Avg	17.97		288	18.23	.39	251	16.89	-1.77
185	17.25	-.57				232	17.86	-.29	220	18.23	.37	425	16.80	-1.90
425	16.80	-1.08	Meth: 050.60 PCT			390	17.71	-.62	057	18.01	.32	157	16.78	-1.94
351	16.77	-1.13	Soluble Potash			434	17.81 R	-.66	193	18.17	.31	351	16.77	-1.95
428	14.78 S	-3.87	<u>Flame (Oxalate)</u>			131	17.41	-1.34	423	18.09	.29	426	16.63	-2.17
			415	19.35	1.80	376	17.39	-1.37	043	18.12	.23	372	16.20	-2.85
			309	18.50	.70	330	14.36 s	-11.58	418	18.14 X	.23	428	14.78 s	-5.10
			055	18.23	.43				029	18.13	.20	330	14.36 s	-7.84
			288	18.23	.37	Meth: 050.XX PCT			114	18.11	.19	Meth: 060.00 PCT		
Meth: 050.31 PCT			Avg	17.95		<u>Soluble Potash</u>			422	18.10	.16	Free Water		
Soluble Potash			131	17.77	-.24	300	21.81 s	6.08	049	18.03	.11	<u>Vacuum Oven</u>		
<u>AA (Citrate)</u>			406	17.47	-.63	042	19.45 s	2.82	009	18.00	.06	193	1.21	1.74
254	18.32	.71	200	17.32	-.82	369	19.47 R	2.48	416	18.03	.05	Avg	0.86	
			157	16.78	-1.52	432	19.35 R	2.45	Avg	18.00		416	0.83	-.18
			Meth: 050.50 PCT			415	19.35	2.15	070	17.99	-.02	096	0.83	-.24
			Soluble Potash			034	19.27	2.05	028	17.99	-.04	247	0.82	-.28
			<u>ICP (Oxalate)</u>			430	19.25	1.98	029	17.96	-.07	007	0.64	-1.15
042	19.45 S	1.96	<u>Flame (Citrate)</u>			324	18.94	1.50	043	17.89	-.18	Meth: 060.99 PCT		
324	18.94	1.21	034	19.27	1.82	018	18.90	1.46	231	17.89	-.18	Free Water		
354	18.55	.91	018	18.90	1.15	262	18.80	1.28	041	17.90	-.21	<u>Other</u>		
422	18.10	.40	025	18.56	.46	102	18.75	1.20	232	17.86	-.23	409 0.95 .71		
Avg	17.68		Avg	18.31		023	18.75	1.18	136	17.81	-.30			
106	17.67	-.22	029	18.13	-.33	354	18.55 R	1.06	131	17.77	-.37			
426	16.63	-1.01	028	17.99	-.59	322	18.62	.99	390	17.71	-.46	Meth: 060.XX PCT		
372	16.20	-1.42	057	18.01	-.65	392	18.60	.95	035	17.71	-.46	<u>Free Water</u>		
			041	17.90	-.77	025	18.56	.89	361	17.71	-.46	193	1.21	1.78
			035	17.71	-1.09	309	18.50	.80	434	17.81	-.47	409	0.95	.58
			Meth: 050.99 PCT			260	18.42	.67	009	17.74	-.48	Avg	0.88	
			Soluble Potash			095	18.39	.64	296	17.65	-.56	416	0.83	-.27
			<u>Other</u>			177	18.39	.62	106	17.67	-.63	096	0.83	-.31
			300 21.81 s 9.05			325	18.33	.52	007	17.61	-.65	247	0.82	-.36
			* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits			057	18.26	.51	406	17.47	-.84	007	0.64	-1.30

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 101.30 PCT			Meth: 101.XX PCT			Meth: 121.XX PCT			Meth: 144.99 PCT			Meth: 151.99 PPM		
<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			Sulfur			<u>Arsenic</u>		
ICP			288	0.61	-.54	409	0.32 R	5.56	Other			Other		
065	6.19 s	48.42	102	0.61	-.60	193	0.29	1.83	035	0.59	-1.78	409	6.35	1.05
422	1.00	2.92	423	0.59	-.76	247	0.28	.88	Meth: 144.XX PCT			Avg	5.70	
096	0.85	1.55	389	0.59	-.85	288	0.28	.88	<u>Sulfur</u>			220	5.05	-.64
390	0.70	.26	Meth: 121.00 PCT			390	0.27	.72	131	23.62 s	764.15	Meth: 151.XX PPM		
Avg	0.67		<u>Acid Soluble Magnesi</u>			423	0.27	.67	288	0.68	1.31	<u>Arsenic</u>		
232	0.65	-.26	AA			232	0.27	.29	422	0.68	1.18	232	14.55 s	13.10
106	0.64	-.27	193 0.29 -.71			389	0.27	.18	423	0.67	1.02	409	6.35 R	1.75
035	0.63	-.32	Meth: 121.30 PCT			Avg	0.27		102	0.67 X	.94	065	6.59	1.73
009	0.65	-.35	<u>Acid Soluble Magnesi</u>			102	0.27	-.31	390	0.66	.67	247	6.30	1.22
247	0.62	-.44	ICP			009	0.26	-.36	Avg	0.64		009	5.85	.58
433	0.62	-.47	065	2.67 s	287.06	035	0.27	-.39	232	0.64	-.18	Avg	5.48	
131	0.62	-.47	422	0.44 s	20.16	131	0.26	-.42	247	0.64	-.25	096	5.30	-.26
288	0.61	-.53	288	0.28	1.13	433	0.25	-1.52	009	0.63	-.30	136	5.15	-.48
102	0.61	-.54	247	0.28	1.13	106	0.25	-1.92	096	0.62	-.68	220	5.05	-.62
423	0.59	-.66	390	0.27	.95	Meth: 144.01 PCT			389	0.62	-.77	102	4.81	-.98
389	0.59	-.70	423	0.27	.92	Sulfur			193	0.64 R	-1.18	106	4.80	-1.02
Meth: 101.99 PCT			232	0.27	.39	<u>Gravimetric</u>			409	0.61	-1.19	Meth: 165.00 PCT		
<u>Acid Soluble Calcium</u>			389	0.27	.37	288	0.68	.58	035	0.59	-1.83	<u>Acid Soluble Boron</u>		
Other			102	0.27	.34	Avg	0.66		Meth: 151.00 PPM			<u>Spectrometric</u>		
409	0.64	.71	Avg	0.27		193	0.64	-1.08	Arsenic			251	16.015	1.63
Meth: 101.XX PCT			009	0.26	-.26	Meth: 144.99 PCT			Atomic Absorption			029	15.325	.73
<u>Acid Soluble Calcium</u>			131	0.26	-.32	Sulfur			136 5.15 -.71			023	15.150	.48
065	6.19 s	86.03	035	0.27	-.34	Other			Meth: 151.30 PPM			Avg	14.792	
422	1.00 A	5.57	433	0.25	-1.56	131	23.62 s	798.37	Arsenic			296	14.605	-.27
096	0.85	3.13	106	0.25	-2.02	422	0.68	1.36	ICP			262	14.600	-.29
390	0.70	.86	Meth: 121.99 PCT			423	0.67	1.19	232	14.55 S	11.72	055	14.200	-.78
009	0.65	.52	<u>Acid Soluble Magnesi</u>			102	0.67 X	1.10	065	6.59	1.42	392	13.650	-1.52
232	0.65	.32	Other			390	0.66	.83	247	6.30	.94	Meth: 165.70 PCT		
Avg	0.64		409	0.32	.71	232	0.64	.16	009	5.85	.37	<u>Acid Soluble Boron</u>		
035	0.63	-.16	Meth: 121.XX PCT			Avg	0.64		Avg	5.61		<u>Titrimetric</u>		
106	0.64	-.16	<u>Acid Soluble Magnesi</u>			247	0.64	-.19	096	5.30	-.40	220 15.155 -.71		
409	0.64	-.16	065	2.67 s	252.44	096	0.62	-.59	102	4.81	-1.05			
247	0.62	-.40	422	0.44 s	17.59	389	0.62	-.68	106	4.80	-1.09			
131	0.62	-.43	* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits			409	0.61	-1.12						
433	0.62	-.44												

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index					
Meth: 165.99 PCT			Meth: 165.XX PCT			Meth: 171.99 PCT			Meth: 181.99 PPM			Meth: 190.XX PCT							
<u>Acid Soluble Boron</u>			<u>Acid Soluble Boron</u>			<u>Water Soluble Boron</u>			<u>Cadmium</u>			<u>Water Soluble Chlori</u>							
<u>Other</u>			023	15.150	-.08	<u>Other</u>			<u>Other</u>			422	12.36	-1.00					
330	16.350	1.79	057	15.035	-.20	430	13.410	-1.28	Avg	1.35		Meth: 191.30 PPM							
434	16.015	1.23	324	15.000	-.29	Meth: 171.XX PCT			220	1.30	-1.12	Chromium							
372	16.000	1.20	043	15.150	-.30	<u>Water Soluble Boron</u>			Meth: 181.XX PPM			<u>ICP</u>							
432	15.700 R	1.09	422	14.955	-.31	372	15.500	1.62	<u>Cadmium</u>			009	36.95	1.34					
389	15.900	1.03	423	14.845	-.48	136	15.270	.39	193	4.75 s	16.81	065	36.85	1.21					
102	15.835	.92	231	14.900	-.50	Avg	15.200		232	1.60 R	1.78	035	35.20 R	1.02					
009	15.600	.52	426	14.750	-.62	432	15.150	-.38	065	1.65	1.19	390	35.65	.81					
433	15.515	.39	288	14.800 R	-.81	296	15.080	-.65	247	1.55	.75	247	34.55	.28					
Avg	15.296		296	14.605	-.85	416	15.000	-1.08	324	1.55	.75	106	34.00	.07					
106	15.225	-.12	262	14.600	-.86	430	13.410 R	-9.67	035	1.52	.60	Avg	33.83						
043	15.150	-.42	055	14.200	-1.45	Meth: 181.00 PPM			106	1.50	.45	102	32.81	-.40					
057	15.035	-.44	300	14.150	-1.54	<u>Cadmium</u>			102	1.50	.43	096	32.50	-.56					
324	15.000	-.53	409	14.350 R	-1.66	136	1.40	.00	Avg	1.41		232	32.15	-.66					
422	14.955	-.58	392	13.650	-2.28	193	4.75 S	.00	409	1.40	-.05	324	29.00	-1.90					
231	14.900	-.75	232	0.002 s	-22.78	Avg	1.40		136	1.40	-.05	Meth: 191.99 PPM							
423	14.845	-.77	Meth: 171.00 PCT			<u>Atomic Absorption</u>			220	1.30	-.74	Chromium							
426	14.750	-.93	<u>Water Soluble Boron</u>			136	1.40	.00	009	1.15	-1.32	<u>Other</u>							
288	14.800	-1.08	<u>AA</u>			193	4.75 S	.00	390	1.00	-2.22	409	43.65	.86					
300	14.150	-1.96	136	15.270	.71	Meth: 181.30 PPM			Meth: 190.00 PCT			Avg	40.33						
409	14.350 R	-2.05	Meth: 171.10 PCT			<u>Cadmium</u>			<u>Water Soluble Chlori</u>			220	37.00	-.87					
232	0.002 s	-25.97	<u>Spectrometric</u>			232	1.60 R	1.51	<u>Titrimetric</u>			Meth: 191.XX PPM							
Meth: 165.XX PCT			<u>Water Soluble Boron</u>			065	1.65	.96	422			12.36	.71	<u>Chromium</u>					
<u>Acid Soluble Boron</u>			<u>Spectrometric</u>			247	1.55	.58	Meth: 190.99 PCT			409	43.65	2.31					
330	16.350	1.78	296	15.080	.00	324	1.55	.58	<u>Water Soluble Chlori</u>			009	36.95	.63					
251	16.015	1.30	Meth: 171.70 PCT			035	1.52	.46	<u>Other</u>			220	37.00	.59					
434	16.015	1.29	<u>Water Soluble Boron</u>			106	1.50	.32	009			14.06	.44	035	35.20 R	.59			
372	16.000	1.26	<u>Titrimetric</u>			102	1.50	.30	Avg			13.73		065	36.85	.52			
389	15.900	1.11	416	15.000	.00	Avg	1.43		288			13.40	-1.14	390	35.65	.31			
432	15.700 R	1.10	Meth: 171.99 PCT			009	1.15	-1.22	Meth: 190.XX PCT			Avg			35.01				
102	15.835	1.01	<u>Water Soluble Boron</u>			390	1.00	-2.00	<u>Water Soluble Chlori</u>			247	34.55	-.12					
009	15.600	.66	<u>Other</u>			Meth: 181.99 PPM			288			13.40	.88	102	32.81	-.59			
433	15.515	.54	372	15.500	.81	<u>Cadmium</u>			009			14.06	.86	096	32.50	-.68			
029	15.325	.34	432	15.150	.46	<u>Other</u>			Avg			13.27		232	32.15	-.76			
106	15.225	.10	Avg	14.687		409	1.40	.50	Meth: 190.00 PCT			Avg			40.33				
Avg	15.164		* X=Excluded from lab performance			S/s=Screened Outlier			Meth: 190.99 PCT			Avg			35.01				
220	15.155	-.03							Meth: 190.XX PCT			Avg			35.01				
									Meth: 190.00 PCT			Avg			35.01				
									Meth: 190.99 PCT			Avg			35.01				
									Meth: 190.XX PCT			Avg			35.01				
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									Meth: 190.XX PCT			Avg			35.01				
									Meth: 190.00 PCT			Avg			35.01				
									Meth										

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 191.XX PPM</u>			<u>Meth: 221.00 PCT</u>			<u>Meth: 221.XX PCT</u>			<u>Meth: 241.XX PCT</u>			<u>Meth: 261.00 PCT</u>		
<u>Chromium</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Manganese</u>		
324	29.00	-1.60	<u>Atomic Absorption</u>			433	0.0001	-.75	390	0.39	.93	<u>AA</u>		
Meth: 202.30 PPM			095 0.0003 X -1.16			Meth: 241.00 PCT			009 0.38 R .62			193 0.014 .71		
<u>Acid Soluble Cobalt</u>			Meth: 221.30 PCT			<u>Acid Soluble Iron</u>			433 0.38 .32			Meth: 261.30 PCT		
<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Atomic Absorption</u>			096 0.38 .28			<u>Acid Soluble Manganese</u>		
324	1.55	1.73	<u>ICP</u>			193 0.42 .71			Avg 0.37			<u>ICP</u>		
009	1.55	1.42	232 1.5500 s2186.59			Meth: 241.30 PCT			423 0.37 -.16			065 0.146 s 282.31		
065	1.36	.25	035 0.3512 S 488.53			<u>Acid Soluble Iron</u>			389 0.37 -.20			423 0.014 1.32		
Avg	1.35		065 0.0020 R 2.17			<u>ICP</u>			247 0.37 -.20			131 0.014 1.10		
057	1.33	-.26	422 0.0020 2.12			409 0.56 s 13.03			422 0.37 -.39			433 0.014 1.08		
035	1.26	-.71	Avg 0.0005			106 0.40 2.03			232 0.36 -.68			009 0.014 .45		
102	1.28	-.74	330 0.0004 -.19			390 0.39 1.42			288 0.36 -.92			106 0.014 .35		
106	1.25	-.80	324 0.0002 -.43			009 0.38 R .93			131 0.36 -.96			Avg 0.014		
232	1.25	-.80	057 0.0001 -.47			433 0.38 .61			102 0.35 -1.41			247 0.014 -.51		
Meth: 202.99 PPM			009 0.0001 -.48			096 0.38 .47			035 0.01 s -19.39			102 0.013 -.93		
<u>Acid Soluble Cobalt</u>			433 0.0001 -.56			423 0.37 .08			Meth: 251.00 PPM			232 0.013 -.96		
<u>Other</u>			Meth: 221.99 PCT			Avg 0.37			<u>Lead</u>			096 0.013 -1.15		
409	1.65	.71	Acid Soluble Copper			389 0.37 -.02			<u>Atomic Absorption</u>			389 0.014 -1.29		
Meth: 202.XX PPM			Other			247 0.37 -.02			136 1.70 .00			390 0.013 R -3.15		
<u>Acid Soluble Cobalt</u>			409 0.0003 -.71			422 0.37 -.26			Meth: 251.30 PPM			288 0.012 s -4.48		
409	1.65	1.76	Meth: 221.XX PCT			232 0.36 -.64			<u>Lead</u>			422 0.001 s -27.49		
324	1.55	1.29	<u>Acid Soluble Copper</u>			288 0.36 -.94			<u>ICP</u>			Meth: 261.99 PCT		
009	1.55	.99	232 1.5500 s2684.11			131 0.36 -.99			324 2.60 .00			<u>Acid Soluble Manganese</u>		
Avg	1.39		035 0.3512 s 599.65			102 0.35 -1.56			Meth: 251.99 PPM			<u>Other</u>		
065	1.36	-.26	065 0.0020 R 2.61			035 0.01 s -24.44			Lead			409 0.016 .71		
057	1.33	-.38	422 0.0020 2.55			Meth: 241.99 PCT			<u>Other</u>			Meth: 261.XX PCT		
102	1.28	-.75	193 0.0010 .84			<u>Acid Soluble Iron</u>			409 0.79 -.71			<u>Acid Soluble Manganese</u>		
035	1.26	-.77	043 0.0007 .37			<u>Other</u>			Meth: 251.XX PPM			065 0.146 s 151.77		
232	1.25	-.84	Avg 0.0005			065 3.41 S .00			<u>Lead</u>			409 0.016 2.36		
106	1.25	-.84	330 0.0004 -.29			Meth: 241.XX PCT			324 2.60 1.11			193 0.014 R 1.16		
Meth: 221.00 PCT			409 0.0003 -.40			<u>Acid Soluble Iron</u>			136 1.70 .00			423 0.014 .63		
<u>Acid Soluble Copper</u>			095 0.0003 X -.44			065 3.41 s 163.00			Avg 1.70			131 0.014 .51		
<u>Atomic Absorption</u>			324 0.0002 -.59			409 0.56 s 10.06			409 0.79 -1.12			433 0.014 .51		
193	0.0010	1.02	057 0.0001 -.63			193 0.42 2.23						009 0.014 .18		
043	0.0007	.33	009 0.0001 -.65			106 0.40 1.41						106 0.014 .10		
* X=Excluded from lab performance			S/s=Screened Outlier			R=Duplicate Range too large			A=Analysis beyond 3-s limits			Avg 0.014		

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.XX PPM			Meth: 291.XX PPM			Meth: 321.30 PCT			Meth: 321.XX PCT		
<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>			<u>Nickel</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
247	0.014	-.35	409	6.13 s	5.52	065	6.12	-.18	ICP			220	0.003	-.48
102	0.013	-.59	220	6.10 s	3.43	247	5.85	-.34	065	0.026 s	39.75	232	0.003	-.55
232	0.013	-.60	247	5.75	1.52	009	5.80	-.40	035	0.004	2.10	330	0.003	-.63
096	0.013	-.70	433	5.62	.85	102	5.48	-.55	422	0.004	1.41	423	0.002	-.66
389	0.014	-.74	232	5.50	.51	106	5.40	-.59	009	0.003	1.11	434	0.002	-.82
390	0.013	-1.77	106	5.50	.51	390	5.64 R	-1.14	057	0.003	.11	433	0.002	-.82
288	0.012 R	-2.48	065	5.45	.09	324	4.15	-1.33	Avg	0.003		324	0.002	-1.10
422	0.001 s	-14.87	Avg	5.44					102	0.003	-.40	288	0.003 R	-1.13
Meth: 281.99 PPM			009	5.30	-.78	Meth: 301.30 PPM			106	0.003	-.43			
Mercury			057	5.22	-1.12	Selenium			232	0.003	-.49			
<u>Other</u>			102	5.22	-1.44	<u>ICP</u>			330	0.003	-.57			
409	0.07	.87	324	4.45 s	-4.44	409	0.50	.00	423	0.002	-.59			
Avg	0.04		Meth: 291.30 PPM			Meth: 311.99 PCT			433	0.002	-.74			
296	0.00	-.87	Nickel			Sodium			324	0.002	-.99			
Meth: 289.30 PPM			<u>ICP</u>			<u>Other</u>			288	0.003	-1.02			
Molybdenum			035	7.62	1.70	422	0.42	1.49	Meth: 321.99 PCT					
<u>ICP</u>			232	7.35	1.23	288	0.41	.86	Acid Soluble Zinc					
247	5.75	1.52	065	6.12	.16	423	0.40	.41	<u>Other</u>					
433	5.62	.85	Avg	5.97		009	0.40	.26	409	0.034 S	223.45			
106	5.50	.51	247	5.85	-.17	Avg	0.40		220	0.003	.71			
232	5.50	.51	009	5.80	-.30	102	0.39	-.54	Avg	0.003				
065	5.45	.09	106	5.40	-.50	232	0.39	-.58	Meth: 321.XX PCT					
Avg	5.44		390	5.64 R	-1.57	035	0.37	-1.64	<u>Acid Soluble Zinc</u>					
009	5.30	-.78	324	4.15	-1.59	409	0.24 s	-9.42	409	0.034 s	58.47			
057	5.22	-1.12	Meth: 291.99 PPM			Meth: 321.00 PCT			065	0.026 s	43.69			
102	5.22	-1.44	Nickel			Acid Soluble Zinc			035	0.004	2.30			
324	4.45 s	-4.44	<u>Other</u>			<u>Atomic Absorption</u>			095	0.004 X	1.94			
Meth: 289.99 PPM			409	9.91	.71	095	0.004 X	1.67	422	0.004 R	1.54			
Molybdenum						193	0.003	.07	009	0.003	1.22			
<u>Other</u>			Meth: 291.XX PPM			Avg			043	0.003	.51			
220	6.10 S	.00	Nickel			043			193	0.003	.30			
409	6.13 S	.00	409			220			057	0.003	.12			
Avg	0.00		9.91			434			Avg	0.003				
			035			0.002			102	0.003	-.45			
			7.62			-1.01			106	0.003	-.48			
			232						220	0.003	-.48			
			6.41						A=Analysis beyond 3-s limits					

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large

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	5	0.00	1.06	0.03	121.30	14	21.94	76.48	1.64
001.99	11	4.22	9.20	0.85	121.XX	16	17.18	62.89	1.51
001.XX	16	2.28	6.15	0.55	144.01	2	0.00	0.82	0.64
005.00	2	0.00	1.08	0.41	144.99	12	66.53	230.47	0.97
005.99	5	- 0.16	1.01	0.04	144.XX	14	54.57	204.23	0.91
005.XX	6	0.11	1.09	0.06	151.30	7	1.67	4.52	0.33
010.11	6	- 1.00	2.62	0.12	151.99	2	0.00	0.90	0.59
010.12	4	0.00	1.08	0.08	151.XX	10	1.43	4.20	0.49
010.60	47	- 0.09	1.42	0.30	165.00	7	0.000	1.029	0.145
010.99	7	0.42	1.44	0.32	165.99	20	- 1.344	5.879	0.398
010.XX	64	- 0.11	1.58	0.36	165.XX	28	- 0.848	4.406	0.309
020.10	4	0.00	1.07	0.14	171.99	3	0.000	1.115	0.064
020.20	16	1.22	3.45	0.69	171.XX	6	- 1.609	4.052	0.250
020.40	5	- 1.05	2.52	1.94	181.00	2	0.00	0.00	0.00
020.50	10	- 0.04	0.87	0.67	181.30	9	0.08	0.96	0.52
020.XX	37	0.44	2.47	0.75	181.99	2	0.00	0.71	0.71
030.99	2	0.00	0.56	0.77	181.XX	13	1.36	4.71	0.71
030.XX	4	0.00	0.53	0.81	190.99	2	0.00	0.62	0.75
040.99	2	0.00	0.90	0.59	190.XX	3	0.00	0.93	0.50
040.XX	5	0.00	0.89	0.52	191.30	10	0.05	0.96	0.36
041.10	16	0.44	1.48	0.63	191.99	2	0.00	1.18	0.22
041.40	3	0.00	1.12	0.04	191.XX	12	0.00	0.96	0.24
041.50	10	- 0.56	1.54	0.23	202.30	8	0.00	0.89	0.49
041.60	11	0.35	1.48	0.40	202.XX	9	0.00	0.90	0.48
041.XX	34	- 0.18	1.49	0.44	221.00	3	0.0000	1.0989	0.1681
048.99	2	0.00	0.59	0.76	221.30	9	294.37	717.51	116.09
048.XX	3	0.00	0.97	0.45	221.XX	13	250.15	739.80	118.57
050.00	15	0.01	0.95	0.32	241.30	15	- 0.72	7.41	0.41
050.30	9	- 0.14	1.87	0.30	241.XX	17	9.05	40.01	1.78
050.50	7	0.24	1.14	0.41	251.XX	3	0.00	1.12	0.06
050.51	11	0.00	1.01	0.16	261.30	14	17.731	76.501	0.941
050.60	8	0.00	1.03	0.13	261.XX	16	8.425	38.413	0.556
050.61	8	0.00	1.00	0.24	281.99	2	0.00	1.22	0.00
050.99	12	0.28	3.93	2.36	281.XX	2	0.00	1.22	0.00
050.XX	66	0.05	1.63	0.74	289.30	9	- 0.49	1.68	0.53
060.00	5	0.00	1.05	0.10	289.99	2	0.00	0.00	0.00
060.XX	6	0.00	1.03	0.20	289.XX	11	0.14	2.06	1.56
101.30	15	3.23	12.54	0.13	291.30	9	- 0.03	0.90	0.62
101.XX	16	5.73	21.48	0.23	291.XX	10	- 0.05	0.93	0.44

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>
311.99	8	- 1.18	3.44	0.38					
311.XX	8	- 1.18	3.44	0.38					
321.00	5	0.000	1.007	0.298					
321.30	13	3.058	11.059	0.415					
321.99	2	111.72	158.00	0.500					
321.XX	18	5.779	16.700	0.420					