

MAGRUDER - Fertilizer Check Sample No. - 200402 Grace 6-6-18 Tob

- Pass 1 Results for 88 Labs - - Pass 2 Results for 88 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	10	3.15	0.11	0.03	9	3.13	0.09	0.02
Ammoniacal Nitrogen, Other		001.99	12	3.19	0.14	0.05	11	3.19	0.14	0.03
Method Group 001.XX PCT			22	3.17	0.13	0.04	21	3.17	0.13	0.03
Nitrate Nitrogen, Robertson	930.01	002.10	1	3.31	0.00	0.00	1	3.31	0.00	0.00
Nitrate Nitrogen, Jones Modified	930.02	002.20	2	2.86	0.35	0.03	2	2.86	0.35	0.03
Nitrate Nitrogen, Other		002.99	6	3.06	0.07	0.04	5	3.06	0.05	0.01
Method Group 002.XX PCT			10	3.02	0.21	0.06	8	3.04	0.21	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	9	6.18	0.26	0.05	9	6.18	0.26	0.05
Ammon & Nitrate N, Other		009.99	1	6.64	0.01	0.02	1	6.64	0.01	0.02
Method Group 009.XX PCT			10	6.23	0.28	0.04	9	6.22	0.30	0.03
Total Nitrogen, Reduced Iron		010.10	1	6.48	0.21	0.29	1	6.48	0.21	0.29
Total Nitrogen, Modified Comprehensive	978.02	010.11	8	6.19	0.13	0.05	8	6.19	0.13	0.05
Total Nitrogen, Salicylic	955.04D	010.12	7	6.19	0.10	0.04	7	6.19	0.10	0.04
Total Nitrogen, Raney	970.03	010.16	1	6.15	0.07	0.10	1	6.15	0.07	0.10
Total Nitrogen, Combustion		010.60	52	6.27	0.11	0.04	51	6.27	0.11	0.04
Total Nitrogen, Other		010.99	3	6.22	0.21	0.08	3	6.22	0.21	0.08
Method Group 010.XX PCT			73	6.25	0.13	0.05	70	6.24	0.12	0.04
Total Phosphate, Grav Quimociac	962.02	020.10	7	6.50	0.13	0.09	6	6.47	0.06	0.06
Total Phosphate, Spectrometric	958.01	020.20	24	6.48	0.14	0.07	22	6.50	0.12	0.04
Total Phosphate, Alka Quimociac	969.02	020.30	1	6.60	0.00	0.00	1	6.60	0.00	0.00
Total Phosphate, Automated	978.01	020.40	6	6.46	0.16	0.11	6	6.46	0.16	0.11
Total Phosphate, ICP		020.50	4	6.86	0.13	0.05	4	6.86	0.13	0.05
Method Group 020.XX PCT			43	6.51	0.19	0.08	38	6.53	0.16	0.05
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	3	0.01	0.01	0.00	3	0.01	0.01	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.03	0.01	0.00	2	0.03	0.01	0.00
Method Group 030.XX PCT			5	0.02	0.01	0.00	4	0.02	0.01	0.00
InDir Available Phosphate, Grav Quim ..	960.02	040.10	2	6.85	0.42	0.04	2	6.85	0.42	0.04
InDir Available Phosphate, Spectrometri	960.02	040.20	2	6.47	0.03	0.04	2	6.47	0.03	0.04
InDir Available Phosphate, Automated ..	960.02	040.40	3	6.40	0.20	0.11	3	6.40	0.20	0.11
Method Group 040.XX PCT			7	6.55	0.31	0.07	6	6.61	0.29	0.03
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	15	6.48	0.06	0.06	14	6.48	0.05	0.04
Dir Available Phosphate, Spectrometric	960.03D	041.20	7	6.39	0.22	0.06	7	6.39	0.22	0.06
Dir Available Phosphate, Automated	978.01	041.40	4	6.45	0.15	0.10	4	6.45	0.15	0.10
Dir Available Phosphate, ICP		041.50	7	6.38	0.26	0.09	8	6.31	0.31	0.10
Dir Available Phosphate, EDTA Extract .	993.01	041.60	10	6.46	0.09	0.05	9	6.47	0.09	0.04
Method Group 041.XX PCT			45	6.42	0.18	0.06	43	6.42	0.18	0.06
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	5.69	0.08	0.11	1	5.69	0.08	0.11
Water Soluble Phosphate, Spectrometric	970.01	048.20	4	5.70	0.07	0.06	4	5.70	0.07	0.06
Water Soluble Phosphate, Other		048.99	1	5.40	0.12	0.17	1	5.40	0.12	0.17

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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
Method Group 048.XX PCT			6	5.65	0.14	0.09	6	5.65	0.14	0.09
Soluble Potash, STPB Oxalate	958.02	050.00	20	19.25	0.16	0.09	20	19.25	0.16	0.09
Soluble Potash, STPB Citrate	969.04	050.10	1	18.08	0.02	0.03	1	18.08	0.02	0.03
Soluble Potash, AA (Oxalate)		050.30	12	18.88	0.72	0.25	12	18.88	0.72	0.25
Soluble Potash, ICP (Oxalate)		050.50	5	18.75	0.49	0.22	4	18.81	0.48	0.06
Soluble Potash, ICP (Citrate)		050.51	7	19.07	0.39	0.12	7	19.07	0.39	0.12
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	7	18.92	0.68	0.09	7	18.92	0.68	0.09
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	6	19.35	0.27	0.09	6	19.35	0.27	0.09
Soluble Potash, Other		050.99	16	19.23	0.52	0.15	15	19.15	0.44	0.12
Method Group 050.XX PCT			77	19.09	0.52	0.15	72	19.08	0.49	0.12
Free Water, Vacuum Oven	965.08B	060.00	7	0.94	0.49	0.02	7	0.94	0.49	0.02
Acid Soluble Calcium, AA	945.04	101.00	14	4.27	0.21	0.07	14	4.27	0.21	0.07
Acid Soluble Calcium, ICP		101.30	20	4.22	0.21	0.07	19	4.25	0.18	0.06
Acid Soluble Calcium, Titrimetric	945.03	101.70	1	4.11	0.04	0.05	1	4.11	0.04	0.05
Acid Soluble Calcium, Other		101.99	2	4.17	0.32	0.02	2	4.17	0.32	0.02
Method Group 101.XX PCT			37	4.24	0.21	0.07	35	4.26	0.19	0.06
Acid Soluble Magnesium, AA	984.01	121.00	20	4.11	0.12	0.08	19	4.11	0.12	0.07
Acid Soluble Magnesium, ICP		121.30	19	4.18	0.20	0.07	18	4.20	0.17	0.06
Acid Soluble Magnesium, Titrimetric ...	964.01	121.70	1	4.18	0.00	0.01	1	4.18	0.00	0.01
Acid Soluble Magnesium, Other		121.99	1	4.32	0.01	0.01	1	4.32	0.01	0.01
Method Group 121.XX PCT			42	4.14	0.19	0.07	39	4.16	0.15	0.06
Water Soluble Magnesium, AA		131.00	4	3.76	0.31	0.07	4	3.76	0.31	0.07
Sulfur, Gravimetric	980.02a	144.01	15	13.44	0.20	0.10	14	13.43	0.20	0.08
Sulfur, Gravimetric	980.02b	144.02	1	13.45	0.08	0.12	1	13.45	0.08	0.12
Sulfur, Turbidimetric	63.845	144.50	1	13.27	0.07	0.10	1	13.27	0.07	0.10
Sulfur, Other		144.99	16	13.47	0.42	0.19	16	13.47	0.42	0.19
Method Group 144.XX PCT			33	13.45	0.32	0.14	31	13.42	0.29	0.12
Arsenic, Atomic Absorption		151.00	3	6.05	1.58	0.42	3	6.05	1.58	0.42
Arsenic, ICP		151.30	5	5.02	1.45	0.92	5	5.02	1.45	0.92
Arsenic, Other		151.99	2	5.58	0.31	0.45	2	5.58	0.31	0.45
Method Group 151.XX PPM			10	5.44	1.37	0.68	10	5.44	1.37	0.68
Acid Soluble Boron, Spectrometric	982.01	165.00	13	0.035	0.004	0.002	12	0.035	0.003	0.001
Acid Soluble Boron, Other		165.99	14	0.035	0.004	0.001	13	0.035	0.003	0.001
Method Group 165.XX PCT			27	0.035	0.004	0.002	25	0.035	0.003	0.001
Water Soluble Boron, Spectrometric	982.01	171.10	1	0.031	0.007	0.010	1	0.031	0.007	0.010
Cadmium, Atomic Absorption		181.00	4	0.91	0.22	0.07	4	0.91	0.22	0.07
Cadmium, ICP		181.30	10	0.95	0.21	0.09	10	0.95	0.21	0.09
Cadmium, Other		181.99	1	0.90	0.00	0.00	1	0.90	0.00	0.00
Method Group 181.XX PPM			15	0.94	0.20	0.08	14	0.94	0.21	0.07

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Water Soluble Chlorine, Titrimetric ...	928.02	190.00	18	2.48	0.08	0.04	17	2.48	0.07	0.03
Water Soluble Chlorine, Other		190.99	4	2.45	0.12	0.03	4	2.45	0.12	0.03
Method Group 190.XX PCT			22	2.47	0.08	0.04	21	2.48	0.08	0.03
Chromium, Atomic Absorption		191.00	1	81.50	0.71	1.00	1	81.50	0.71	1.00
Chromium, ICP		191.30	11	68.93	6.46	4.06	10	69.27	6.09	2.77
Chromium, Other		191.99	1	71.50	0.42	0.60	1	71.50	0.42	0.60
Method Group 191.XX PPM			13	70.10	6.84	3.56	12	70.48	6.53	2.44
Acid Soluble Cobalt, ICP	965.11	202.30	12	5.31	3.32	0.48	11	5.24	3.45	0.35
Acid Soluble Cobalt, Other		202.99	1	10.50	0.14	0.20	1	10.50	0.14	0.20
Method Group 202.XX PPM			13	5.71	3.48	0.46	12	5.68	3.62	0.34
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0013	0.0002	0.0001	4	0.0013	0.0002	0.0001
Acid Soluble Copper, ICP		221.30	14	0.0015	0.0004	0.0002	13	0.0014	0.0003	0.0001
Acid Soluble Copper, Other		221.99	2	0.0012	0.0001	0.0001	2	0.0012	0.0001	0.0001
Method Group 221.XX PCT			20	0.0014	0.0004	0.0002	19	0.0014	0.0003	0.0001
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	15	0.23	0.03	0.01	14	0.22	0.03	0.01
Acid Soluble Iron, ICP		241.30	21	0.22	0.03	0.01	20	0.22	0.03	0.01
Acid Soluble Iron, Other		241.99	1	0.22	0.01	0.02	1	0.22	0.01	0.02
Method Group 241.XX PCT			37	0.22	0.03	0.01	35	0.22	0.03	0.01
Lead, Atomic Absorption		251.00	4	6.88	0.69	0.43	4	6.88	0.69	0.43
Lead, ICP		251.30	8	4.73	1.66	0.36	8	4.73	1.66	0.36
Lead, Other		251.99	1	5.50	0.14	0.20	1	5.50	0.14	0.20
Method Group 251.XX PPM			13	5.45	1.66	0.37	13	5.45	1.66	0.37
Acid Soluble Manganese, AA	972.02a	261.00	15	0.110	0.010	0.005	13	0.109	0.008	0.003
Acid Soluble Manganese, AA	972.02b	261.11	3	0.108	0.003	0.001	3	0.108	0.003	0.001
Acid Soluble Manganese, ICP	972.02a	261.30	16	0.106	0.011	0.005	16	0.106	0.011	0.005
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.112	0.001	0.001	1	0.112	0.001	0.001
Acid Soluble Manganese, Other		261.99	3	0.107	0.010	0.007	3	0.107	0.010	0.007
Method Group 261.XX PCT			38	0.108	0.010	0.005	36	0.108	0.009	0.004
Water Soluble Manganese, Other		271.99	1	0.020	0.000	0.000	1	0.020	0.000	0.000
Mercury, Atomic Absorption		281.00	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Mercury, ICP		281.30	1	0.82	0.12	0.17	1	0.82	0.12	0.17
Mercury, Other		281.99	2	0.21	0.23	0.11	2	0.21	0.23	0.11
Method Group 281.XX PPM			4	0.32	0.36	0.10	4	0.32	0.36	0.10
Molybdenum, ICP		289.30	7	6.32	0.50	0.29	7	6.32	0.50	0.29
Method Group 289.XX PPM			7	6.32	0.50	0.29	7	6.32	0.50	0.29
Nickel, Atomic Absorption		291.00	1	35.00	1.41	2.00	1	35.00	1.41	2.00
Nickel, ICP		291.30	7	36.74	2.67	2.91	7	36.74	2.67	2.91
Nickel, Other		291.99	1	19.60	3.11	4.40	1	19.60	3.11	4.40
Method Group 291.XX PPM			10	31.59	10.99	2.68	10	31.59	10.99	2.68

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Selenium, Atomic Absorption		301.00	1	0.08	0.01	0.01	1	0.08	0.01	0.01
Selenium, Other		301.99	1	0.85	0.07	0.10	1	0.85	0.07	0.10
Method Group 301.XX PPM			2	0.47	0.44	0.05	2	0.47	0.44	0.05
Sodium, Atomic Absorption	983.04	311.00	1	0.44	0.00	0.01	1	0.44	0.00	0.01
Sodium, Flame Photometric	974.01	311.30	2	0.46	0.05	0.02	2	0.46	0.05	0.02
Sodium, Other		311.99	5	0.50	0.03	0.01	5	0.50	0.03	0.01
Method Group 311.XX PCT			8	0.48	0.04	0.01	8	0.48	0.04	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	10	0.121	0.012	0.004	10	0.121	0.012	0.004
Acid Soluble Zinc, ICP		321.30	20	0.124	0.014	0.006	20	0.124	0.014	0.006
Acid Soluble Zinc, Other		321.99	2	0.117	0.003	0.002	2	0.117	0.003	0.002
Method Group 321.XX PCT			32	0.123	0.013	0.005	32	0.123	0.013	0.005

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: 002.99 PCT			Meth: 009.99 PCT			Meth: 010.12 PCT		
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Nitrate Nitrogen</u>			<u>Ammon & Nitrate N</u>			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>						<u>Other</u>			<u>Other</u>			<u>Salicylic</u>		
391	6.25 s	33.53	391	6.25 s	23.74	354	3.07 R	2.05	393	6.64	-.71	254	6.30	1.15
258	3.36 R	2.57	369	6.21 s	23.40	394	3.12	1.11				102	6.25	.71
415	3.31	1.98	393	3.53	2.76	393	3.10	.83	Meth: 009.XX PCT			137	6.24	.68
029	3.18	.58	258	3.36	1.49	300	3.07	.28	<u>Ammon & Nitrate N</u>			185	6.20	.27
220	3.15	.26	415	3.31	1.06	Avg	3.06		258	6.67	1.52	415	6.19	.02
090	3.15	.21	363	3.20 R	.95	419	3.00	-1.01	393	6.64	1.41	Avg	6.19	
Avg	3.13		354	3.28	.84	289	2.99	-1.21	397	6.28 R	.31	416	6.14	-.47
392	3.13	-.27	300	3.23	.44	220	2.80 s	-5.32	392	6.28	.20	211	5.99	-1.98
309	3.10	-.28	247	3.21	.37				420	6.25	.12			
324	3.10	-.34	096	3.22	.33	Meth: 002.XX PCT			391	6.24	.12	Meth: 010.16 PCT		
351	3.08	-.49	419	3.20	.21	<u>Nitrate Nitrogen</u>			257	6.24	.07	<u>Total Nitrogen</u>		
288	2.95	-1.90	029	3.18	.05	258	3.31	1.29	Avg	6.22		<u>Raney</u>		
			Avg	3.17		029	3.16	.59	090	6.05	-.59	419	6.15	-.71
Meth: 001.99 PCT			397	3.15	-.17	354	3.07 R	.54	200	5.82	-1.34	Meth: 010.60 PCT		
<u>Ammoniacal Nitrogen</u>			090	3.15	-.22	394	3.12	.37	309	5.80	-1.41	<u>Total Nitrogen</u>		
<u>Other</u>			220	3.15	-.24	393	3.10	.29	030	4.50 s	-5.77	<u>Combustion</u>		
418	6.46 S	23.20	392	3.13	-.42	300	3.07	.15	Meth: 010.10 PCT			022	6.54	2.45
409	6.29 S	21.98	309	3.10	-.56	Avg	3.04		<u>Total Nitrogen</u>			247	6.46	1.73
369	6.21 S	21.38	324	3.10	-.60	419	3.00	-.18	<u>Reduced Iron</u>			157	6.46	1.69
393	3.53	2.39	351	3.08	-.70	289	2.99	-.23	405	6.48	.71	025	6.44	1.55
363	3.20 R	.85	394	3.07	-.84	220	2.80 R	-1.30	Meth: 010.11 PCT			262	6.42	1.32
354	3.28	.62	420	3.07	-.92	351	2.56	-2.27	<u>Total Nitrogen</u>			394	6.39	1.09
247	3.21	.26	289	2.98	-1.50	Meth: 009.10 PCT			<u>Modified Comprehensi</u>			393	6.38	1.00
300	3.23	.25	288	2.95	-1.73	<u>Ammon & Nitrate N</u>			363	6.35	1.24	411	6.32 R	.85
096	3.22	.15	Meth: 002.10 PCT			<u>Devarda</u>			073	6.34	1.13	381	6.36	.78
320	3.21	.13	<u>Nitrate Nitrogen</u>			258	6.67	1.90	220	6.32	.97	324	6.34	.71
419	3.20	.04	<u>Robertson</u>			397	6.28	.47	Avg	6.19		029	6.34	.64
Avg	3.19		258	3.31	.00	392	6.28	.38	414	6.18	-.11	220	6.34	.63
397	3.15	-.31	Meth: 002.20 PCT			420	6.25	.28	029	6.14	-.53	096	6.34	.63
394	3.07	-.92	<u>Nitrate Nitrogen</u>			391	6.24	.27	288	6.13	-.60	007	6.34	.63
420	3.07	-.98	<u>Jones Modified</u>			257	6.24	.23	090	6.11	-.67	073	6.33	.59
289	2.98	-1.53	029	3.16	.87	Avg	6.18		322	5.99	-1.63	292	6.34	.59
Meth: 001.XX PCT			Avg	2.86		090	6.05	-.52	309	5.50 s	-5.48	095	6.33	.55
<u>Ammoniacal Nitrogen</u>			351	2.56	-.87	200	5.82	-1.39				406	6.31	.45
418	6.46 s	25.37	* X=Excluded from lab performance			309	5.80	-1.46	S/s=Screened Outlier			360	6.31	.44
409	6.29 s	24.05	R=Duplicate Range too large			030	4.50 s	-6.47	A=Analysis beyond 3-s limits			049	6.30	.39

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.60 PCT			Meth: 010.99 PCT			Meth: 010.XX PCT			Meth: 010.XX PCT			Meth: 020.20 PCT		
Total Nitrogen			Total Nitrogen			Total Nitrogen			Total Nitrogen			Total Phosphate		
<u>Combustion</u>			<u>Other</u>						<u>Total Nitrogen</u>			<u>Spectrometric</u>		
070	6.31	.36	354	6.39	.95	023	6.29	.45	142	6.03	-1.78	257	6.45	-.45
023	6.29	.32	300	6.30	.37	300	6.30	.42	361	6.01	-1.95	288	6.44	-.46
040	6.30	.32	Avg	6.22		296	6.30	.42	211	5.99	-2.08	376	6.45	-.51
136	6.30	.28	289	5.97	-1.21	325	6.29	.39	322	5.99	-2.08	391	6.43	-.55
330	6.30	.27				389	6.28	.34	289	5.97	-2.25	419	6.45	-.56
296	6.30	.22	Meth: 010.XX PCT			102	6.25	.25	114	5.97	-2.29	200	6.38	-1.00
389	6.28	.20	<u>Total Nitrogen</u>			232	6.26	.22	309	5.50 s	-6.07	258	6.41 R	-1.15
325	6.29	.20	022	6.54	2.42	042	6.27	.21	Meth: 020.10 PCT			309	6.35	-1.27
Avg	6.27		405	6.48 R	2.23	035	6.27	.18	<u>Total Phosphate</u>			406	6.32	-1.45
035	6.27	-.07	247	6.46	1.77	041	6.26	.16	<u>Grav Quimociac</u>			324	6.29	-1.76
231	6.26	-.13	157	6.46	1.74	231	6.26	.16	405	7.24 s	12.26	418	6.20 R	-2.95
041	6.26	-.13	025	6.44	1.61	028	6.25	.12	095	6.73 R	4.77	369	5.98 s	-4.31
042	6.27	-.15	354	6.39 R	1.42	106	6.26	.10	414	6.54	1.50	Meth: 020.30 PCT		
106	6.26	-.15	262	6.42	1.40	027	6.25	.09	114	6.50	.55	Total Phosphate		
027	6.25	-.18	394	6.39	1.20	Avg	6.24	-.17	090	6.48	.49	<u>Alka Quimociac</u>		
232	6.26	-.27	393	6.38	1.12	055	6.24	-.21	Avg	6.47		231	6.60	.00
028	6.25	-.27	381	6.36	.92	043	6.22	-.25	411	6.46	-.49	Meth: 020.40 PCT		
055	6.24	-.33	411	6.32 R	.90	376	6.21	-.32	313	6.43	-.58	Total Phosphate		
233	6.22	-.47	363	6.35	.88	034	6.21	-.32	157	6.39	-1.46	<u>Automated</u>		
043	6.22	-.50	324	6.34	.83	137	6.24	-.33	Meth: 020.20 PCT			394	6.59	.78
034	6.21	-.58	029	6.34	.79	185	6.20	-.45	<u>Total Phosphate</u>			193	6.56	.65
376	6.21	-.60	220	6.34	.79	415	6.19	-.46	<u>Spectrometric</u>			320	6.50	.25
377	6.22	-.72	007	6.34	.77	414	6.18	-.52	362	6.75	2.11	096	6.49	.15
009	6.18	-.90	073	6.34	.77	377	6.22	-.53	363	6.72	1.83	Avg	6.46	
024	6.17	-.96	096	6.34	.77	009	6.18	-.60	232	6.69	1.62	035	6.45	-.92
234	6.16	-1.01	292	6.34	.75	024	6.17	-.64	292	6.60	.87	409	6.20	-1.88
422	6.13	-1.29	073	6.33	.72	234	6.16	-.68	247	6.52	.69	042	5.40 s	-7.00
369	6.14	-1.35	095	6.33	.71	416	6.14	-.85	234	6.56	.54	Meth: 020.50 PCT		
131	6.11	-1.56	220	6.32	.62	419	6.15	-.87	392	6.54	.38	Total Phosphate		
351	6.09	-1.65	406	6.31	.59	029	6.14	-.91	416	6.54	.33	<u>ICP</u>		
102	6.08	-1.77	360	6.31	.58	422	6.13	-.94	142	6.51	.15	330	7.07 S	2.24
142	6.03	-2.24	070	6.31	.54	288	6.13	-.98	381	6.50	.09	422	7.00	1.12
361	6.01	-2.42	049	6.30	.51	369	6.14	-1.01	Avg	6.50		389	6.93	.54
114	5.97 s	-2.79	136	6.30	.47	090	6.11	-1.09	397	6.49	-.20	Avg	6.86	
			040	6.30	.47	131	6.11	-1.19	420	6.48	-.27	Meth: 020.50 PCT		
			330	6.30	.46	351	6.09	-1.26	220	6.47	-.28	Total Phosphate		
			254	6.30	.46	102	6.08	-1.37	Avg			ICP		
* 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: 020.50 PCT			Meth: 020.XX PCT			Meth: 030.XX PCT			Meth: 040.XX PCT			Meth: 041.40 PCT		
Total Phosphate			Total Phosphate			Insoluble Phosphate			InDir Available Phos			Dir Available Phosph		
<u>ICP</u>									<u>Automated</u>					
361	6.82	-.37	376	6.45	-.61	363	0.24 s	18.84	289	6.46	-.54	131	6.58	.91
247	6.70	-1.35	419	6.45	-.62	096	0.03	1.25	409	6.18 R	-1.59	025	6.56	.75
			313	6.43	-.66	405	0.03 R	.94				Avg	6.45	
			391	6.43	-.66	409	0.02	.42	Meth: 041.10 PCT			029	6.37	-1.01
Meth: 020.XX PCT			157	6.39	-.99	Avg			Dir Available Phosph			027	6.30	-1.04
Total Phosphate			200	6.38	-1.02	320	0.01	-.42	<u>Grav Quimociac</u>					
405	7.24 s	4.50	258	6.41	-1.06	090	0.00	-1.25	055	6.56	1.50			
330	7.07 s	3.61	035	6.45 R	-1.08	Meth: 040.10 PCT			211	6.54	1.02	Meth: 041.50 PCT		
422	7.00	2.99	309	6.35	-1.21	InDir Available Phos			131	6.50	.67	Dir Available Phosph		
389	6.93	2.50	406	6.32	-1.36	<u>Grav Quim</u>			022	6.51	.65	<u>ICP</u>		
361	6.82	1.83	324	6.29	-1.60	405	7.22	.87	102	6.51	.55	007	6.90	1.91
095	6.73 R	1.57	409	6.20 R	-2.33	Avg			041	6.50	.40	360	6.51	.71
362	6.75	1.38	418	6.20 R	-2.48	090	6.48	-.87	049	6.50	.38	325	6.35	.18
363	6.72	1.17	369	5.98 A	-3.57	Meth: 040.20 PCT			009	6.49	.16	393	6.34	.13
247	6.70	1.11	042	5.40 s	-7.53	InDir Available Phos			Avg	6.48		023	6.33	.06
232	6.69	1.00	Meth: 030.10 PCT			Spectrometri			040	6.48	-.15	Avg	6.38	
292	6.60	.42	Insoluble Phosphate			363			136	6.46	-.56	361	6.15	-.55
231	6.60	.42	<u>Grav Quimociac</u>			405			414	6.47	-1.16	070	6.10	-.73
414	6.54	.38	405	0.03	1.22	289			260	6.42	-1.18	354	5.84 S	-1.56
394	6.59	.34	Avg	0.01		Meth: 040.40 PCT			185	6.43	-1.50	Meth: 041.60 PCT		
193	6.56	.25	320	0.01	-.14	InDir Available Phos			029	6.39	-1.83	Dir Available Phosph		
234	6.56	.17	Meth: 030.20 PCT			Automated			296	6.46 R	-2.69	EDTA Extract		
392	6.54	.08	Insoluble Phosphate			394			322	6.16 s	-6.17	137	6.61	1.55
416	6.54	.03	<u>Spectrometric</u>			096			254	4.95 s	-30.92	095	6.56	1.07
Avg	6.53		363	0.24 S	.00	409			Meth: 041.20 PCT			028	6.53	.74
142	6.51	-.16	Meth: 030.40 PCT			Meth: 040.XX PCT			Dir Available Phosph			296	6.48	.09
381	6.50	-.22	Insoluble Phosphate			InDir Available Phos			<u>Spectrometric</u>			Avg	6.47	
114	6.50	-.22	<u>Automated</u>			405			362	6.70	1.35	043	6.46	-.15
320	6.50	-.22	096			7.22			055	6.50	.60	377	6.46	-.32
096	6.49	-.31	Avg			6.61			022	6.50	.46	073	6.44	-.39
397	6.49	-.31	409			6.57			419	6.45	.34	351	6.35	-1.40
090	6.48	-.35	090			6.48			106	6.42	.21	288	6.35	-1.47
420	6.48	-.41	363			6.48			Avg	6.39		397	6.37 R	-1.62
220	6.47	-.45	096			6.46			415	6.21	-.85	262	5.94 s	-6.09
411	6.46	-.51	409			6.48			030	6.00	-1.80			
247	6.52	-.52	363			6.48								
257	6.45	-.57	096			6.46								
288	6.44	-.60	096			6.46								

* 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.XX PCT			Meth: 041.XX PCT			Meth: 048.XX PCT			Meth: 050.30 PCT			Meth: 050.60 PCT		
<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
007	6.90	2.69	027	6.30	-.73	275	5.40 X	-1.92	<u>AA (Oxalate)</u>			<u>Flame (Oxalate)</u>		
362	6.70	1.52	029	6.37 R	-.78	Meth: 050.00 PCT			369	20.05	1.65	055	19.59	1.01
137	6.61	1.02	415	6.21	-1.24	Soluble Potash			234	19.79	1.25	024	19.45	.79
131	6.58	.89	322	6.16	-1.51	<u>STPB Oxalate</u>			142	19.39	.71	406	19.37	.67
296	6.46 R	.81	361	6.15	-1.58	114	19.68 s	3.35	420	19.25	.54	288	19.05	.19
095	6.56	.77	070	6.10	-1.87	102	19.46	1.36	363	18.89	.47	200	18.97	.10
055	6.56	.76	030	6.00	-2.42	095	19.40	1.15	095	18.99	.19	Avg	18.92	
025	6.56	.76	262	5.94	-2.76	258	19.35	1.15	137	19.02	.19	415	18.39	-.77
360	6.51	.74	354	5.84 s	-3.34	131	19.42	1.10	Avg	18.88		309	17.60	-1.94
211	6.54	.62	254	4.95 s	-8.87	049	19.34	.73	040	18.85	-.32	Meth: 050.61 PCT		
055	6.50	.62	Meth: 048.10 PCT			211	19.34	.60	351	18.60	-.40	Soluble Potash		
028	6.53	.60	Water Soluble Phosph			231	19.34	.59	185	18.25	-.94	<u>Flame (Citrate)</u>		
102	6.51	.48	<u>Grav Quimociac</u>			009	19.32	.50	381	17.94	-1.31	024	19.67	1.19
022	6.51	.47	405	5.69	-.71	055	19.31	.37	073	17.58	-1.81	025	19.64	1.09
131	6.50	.46	Meth: 048.20 PCT			350	19.31	.37	262	6.15 s	-17.65	041	19.40	.23
041	6.50	.43	Water Soluble Phosph			029	19.29	.26	Meth: 050.50 PCT			Avg	19.35	
414	6.47	.42	<u>Spectrometric</u>			Avg	19.25		Soluble Potash			035	19.22	-.54
022	6.50	.40	420	5.73	.87	345	19.24	-.08	<u>ICP (Oxalate)</u>			028	19.20	-.56
049	6.50	.40	362	5.72	.72	257	19.23	-.21	292	19.57	1.59	029	18.96	-1.49
009	6.49	.37	363	5.75	.70	392	19.20	-.34	Avg	18.81		030	11.95 S	-27.41
185	6.43	.34	Avg	5.70		391	19.16	-.58	324	18.70	-.24	Meth: 050.99 PCT		
419	6.45	.32	096	5.61	-1.32	220	19.19	-.67	422	18.51	-.62	<u>Other</u>		
296	6.48	.28	Meth: 048.99 PCT			043	19.14	-.84	157	18.45	-.74	330	20.37 R	2.86
040	6.48	.28	Water Soluble Phosph			416	19.08	-1.06	354	18.52 R	-1.07	027	19.94	1.82
136	6.46	.23	<u>Other</u>			418	18.95 X	-2.00	Meth: 050.51 PCT			360	19.74	1.33
377	6.46	.22	275	5.40 X	.71	073	18.91	-2.28	Soluble Potash			232	19.56	.93
043	6.46	.21	Meth: 048.XX PCT			411	18.78 s	-2.98	<u>ICP (Citrate)</u>			325	19.34	.42
073	6.44	.06	Water Soluble Phosph			090	18.48 s	-5.36	377	19.48	1.06	362	19.28 X	.42
Avg	6.42		<u>Other</u>			Meth: 050.10 PCT			007	19.34	.69	260	19.28	.40
260	6.42	-.06	275			Soluble Potash			389	19.25	.48	376	19.21	.16
106	6.42	-.23	363			<u>STPB Citrate</u>			Avg	19.07		300	19.18	.08
029	6.39	-.26	420			322	18.08	.71	361	18.91	-.40	394	19.16	.06
351	6.35	-.45	362			Meth: 050.10 PCT			070	18.85	-.67	Avg	19.15	
325	6.35	-.48	405			Soluble Potash			393	18.33	-1.91	419	19.10	-.12
288	6.35	-.51	Avg			STPB Citrate			254	17.00 s	-5.27	275	19.13 X	-.14
023	6.33	-.54	096			Meth: 050.10 PCT			* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits					
393	6.34	-.54	5.61			Soluble Potash								
397	6.37	-.64	-.31			STPB Citrate								

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: 050.XX PCT			Meth: 101.00 PCT			Meth: 101.70 PCT		
Soluble Potash			<u>Soluble Potash</u>			<u>Soluble Potash</u>			Acid Soluble Calcium			Acid Soluble Calcium		
Other									<u>AA</u>			<u>Titrimetric</u>		
022	18.91	- .56	055	19.31	.45	415	18.39	-1.40	Avg	4.27		415	5.68 S	44.49
397	18.81	- .91	420	19.25	.43	090	18.48 R	-1.43	136	4.26	- .08	Avg	4.11	
289	18.40	-1.73	029	19.29	.41	354	18.52 R	-1.43	351	4.20	- .37	200	4.11 X	- .71
042	18.30	-1.96	389	19.25	.35	393	18.33	-1.55	262	4.12	- .76	Meth: 101.99 PCT		
			345	19.24	.31	042	18.30	-1.60	055	4.13	- .77	Acid Soluble Calcium		
			035	19.22	.30	185	18.25	-1.76	397	4.02	-1.27	<u>Other</u>		
			257	19.23	.29	322	18.08	-2.02	296	3.84	-2.11	234	4.45	.86
Meth: 050.XX PCT			220 19.19 .28			309 17.60 -3.01			Meth: 101.30 PCT			Avg 4.17		
<u>Soluble Potash</u>			376 19.21 .27			073 17.58 -3.05			Acid Soluble Calcium			247 3.89 -.87		
330	20.37 R	2.68	028 19.20 .23	392 19.20 .23	254 17.00 s -4.22	<u>ICP</u>						Meth: 101.XX PCT		
027	19.94	1.76	043 19.14 .20	300 19.18 .19	030 11.95 s -14.45	361 4.52 1.52						<u>Acid Soluble Calcium</u>		
234	19.79	1.43	391 19.16 .17	394 19.16 .16	262 6.15 s -26.20	422 4.51 1.48						415 5.68 s 7.41		
114	19.68 R	1.36	275 19.13 X .14	419 19.10 .03	Meth: 060.00 PCT			393 4.42 .96			028 4.62 1.96			
360	19.74	1.33	Avg 19.08	416 19.08 -.02	Free Water			360 4.39 .77			361 4.52 1.37			
024	19.67	1.18	416 19.08 -.02	288 19.05 -.08	<u>Vacuum Oven</u>			023 4.36 .63			422 4.51 1.33			
025	19.64	1.13	288 19.05 -.08	137 19.02 -.14	361 3.43 s 5.11			324 4.32 .49			137 4.50 1.26			
055	19.59	1.06	137 19.02 -.14	200 18.97 -.24	096 1.67 1.49			419 4.34 .48			095 4.47 1.12			
292	19.57	.99	200 18.97 -.24	095 18.99 -.25	320 1.26 .66			300 4.33 .46			234 4.45 .97			
232	19.56	.97	095 18.99 -.25	029 18.96 -.35	362 1.24 .61			102 4.30 .38			289 4.40 .85			
377	19.48	.81	029 18.96 -.35	418 18.95 X -.35	416 1.06 .24			035 4.31 .32			393 4.42 .85			
102	19.46	.77	418 18.95 X -.35	361 18.91 -.35	Avg 0.94			389 4.25 .28			043 4.39 .69			
024	19.45	.76	361 18.91 -.35	022 18.91 -.35	363 0.66 -.58			231 4.26 .20			360 4.39 .67			
131	19.42	.68	022 18.91 -.35	073 18.91 -.43	007 0.50 -.90			394 4.24 -.08			023 4.36 .54			
095	19.40	.67	073 18.91 -.43	070 18.85 -.56	193 0.21 -1.51			232 4.22 -.23			324 4.32 .41			
041	19.40	.64	070 18.85 -.56	411 18.78 -.63	Meth: 101.00 PCT			320 4.10 -.93			419 4.34 .40			
142	19.39	.63	411 18.78 -.63	040 18.85 -.66	Acid Soluble Calcium			292 4.01 -1.34			300 4.33 .38			
258	19.35	.62	040 18.85 -.66	397 18.81 -.69	<u>AA</u>			009 3.97 -1.60			220 4.32 .35			
406	19.37	.59	397 18.81 -.69	324 18.70 -.79	028 4.62 1.75			354 3.97 -1.69			102 4.30 .32			
049	19.34	.54	324 18.70 -.79	363 18.89 R -.79	137 4.50 1.10			376 3.95 -1.70			040 4.31 .29			
211	19.34	.52	363 18.89 R -.79	351 18.60 -.98	095 4.47 .96			106 3.76 R -2.83			035 4.31 .26			
231	19.34	.52	351 18.60 -.98	422 18.51 -1.16	289 4.40 .72			288 2.82 s -8.26			029 4.28 .10			
007	19.34	.51	422 18.51 -1.16	157 18.45 -1.28	043 4.39 .56						136 4.26 .05			
325	19.34	.51	157 18.45 -1.28	289 18.40 -1.39	220 4.32 .26						Avg 4.26			
023	19.32	.49	289 18.40 -1.39	029 4.28 .05	040 4.31 .20						394 4.24 -.12			
009	19.32	.48	029 4.28 .05							231 4.26 -.18				
362	19.28 X	.48												
260	19.28	.46												
350	19.31	.45												

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 101.XX PCT			Meth: 121.00 PCT			Meth: 121.99 PCT			Meth: 121.XX PCT			Meth: 144.01 PCT		
<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>		
232	4.22	-.25	AA			Other			220	4.15	-.70	<u>Gravimetric</u>		
389	4.25	-.26	351	3.98	-1.15	234	4.32	.71	397	4.05	-.77	Avg	13.43	
351	4.20	-.32	296	3.96	-1.28	Avg	4.32		040	4.05	-.89	351	13.38	-.25
262	4.12	-.74	381	3.87	-2.03	247	3.18 S	-161.23	009	4.01	-1.02	028	13.36	-.44
055	4.13	-.75	258	3.56 s	-4.67	Meth: 121.XX PCT			028	4.14 R	-1.17	055	13.34	-.49
200	4.11 X	-.81	309	3.50 s	-5.11	<u>Acid Soluble Magnesi</u>			262	3.99	-1.17	102	13.32	-.56
320	4.10	-.91	Meth: 121.30 PCT			422	5.01 s	5.58	351	3.98	-1.23	095	13.28	-.75
397	4.02	-1.29	<u>Acid Soluble Magnesi</u>			330	4.57	2.69	296	3.96	-1.33	193	13.18	-1.30
292	4.01	-1.30	ICP			231	4.46	1.98	354	3.98	-1.43	397	13.16	-1.39
009	3.97	-1.54	422	5.01 S	4.67	393	4.41	1.64	292	3.89	-1.80	Meth: 144.02 PCT		
354	3.97 R	-1.61	330	4.57	2.13	136	4.35	1.21	381	3.87	-1.92	<u>Sulfur</u>		
376	3.95	-1.63	231	4.46	1.50	360	4.34	1.15	106	3.75 R	-2.85	<u>Gravimetric</u>		
247	3.89	-1.93	393	4.41	1.21	234	4.32	1.01	324	3.70 s	-3.67	292	15.01 S	18.42
296	3.84	-2.19	360	4.34	.77	102	4.30	.95	258	3.56 s	-4.01	136	13.45	.71
106	3.76 R	-2.68	102	4.30	.60	055	4.20	.70	309	3.50 A	-4.36	Avg	13.45	
288	2.82 s	-7.73	023	4.22	.38	035	4.26	.66	247	3.18 s	-6.50	Meth: 144.50 PCT		
Meth: 121.00 PCT			035	4.26	.35	023	4.22	.56	320	2.50 s	-11.01	<u>Sulfur</u>		
<u>Acid Soluble Magnesi</u>			300	4.25	.24	391	4.25	.56	Meth: 131.00 PCT			<u>Turbidimetric</u>		
AA			Avg	4.20		300	4.25	.55	Water Soluble Magnes			289	13.27	.71
136	4.35	1.93	232	4.18	-.19	095	4.18	.35	AA			Meth: 144.99 PCT		
028	4.14 R	1.47	389	4.18	-.22	392	4.19	.23	029	4.03	.91	<u>Sulfur</u>		
391	4.25	1.10	361	4.17	-.24	200	4.19 X	.22	220	3.97	.71	<u>Other</u>		
055	4.20	1.10	288	4.15	-.33	232	4.18	.20	Avg	3.76		330	14.23	1.89
220	4.15	.91	157	4.12	-.51	389	4.18	.19	289	3.73	-.11	394	14.23	1.85
095	4.18	.69	394	4.12	-.51	415	4.18	.13	309	3.30	-1.47	360	13.89	1.10
392	4.19	.66	419	4.10	-.63	361	4.17	.10	Meth: 144.01 PCT			106	13.73	.84
200	4.19 X	.63	009	4.01	-1.14	257	4.17	.04	<u>Sulfur</u>			361	13.79	.74
363	4.15	.60	354	3.98	-1.47	Avg	4.16		<u>Gravimetric</u>			393	13.57	.25
257	4.17	.43	292	3.89	-1.83	029	4.14	-.12	043	13.85	2.14	Avg	13.47	
043	4.14	.28	106	3.75 R	-2.74	288	4.15	-.15	288	13.74	1.64	419	13.40	-.29
029	4.14	.26	324	3.70 S	-3.44	043	4.14	-.20	220	13.66 R	1.52	389	13.40	-.29
137	4.12	.17	320	2.50 s	-9.93	137	4.12	-.31	040	13.49	.65	363	13.36	-.31
Avg	4.11		Meth: 121.70 PCT			157	4.12	-.31	324	13.54	.64	023	13.34	-.36
289	4.07	-.55	<u>Acid Soluble Magnesi</u>			394	4.12	-.31	157	13.45	.46	029	13.27	-.49
397	4.05	-.57	Titrimetric			363	4.15	-.44	137	13.51	.39	376	13.25	-.54
040	4.05	-.80	415	4.18	.71	419	4.10	-.44	296	13.43	.25	A=Analysis beyond 3-s limits		
262	3.99	-1.08	* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large			289	4.07	-.69						

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 144.99 PCT			Meth: 144.XX PCT			Meth: 151.XX PPM			Meth: 165.99 PCT			Meth: 165.XX PCT		
<u>Sulfur</u>			<u>Sulfur</u>			<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Acid Soluble Boron</u>		
Other			029	13.27	-.53	040	7.64	1.60	Other			023	0.033	-.87
009	13.19	-.70	289	13.27	-.54	049	6.31	.97	009	0.036	.53	288	0.032	-.89
231	13.15	-.77	376	13.25	-.61	136	6.35	.69	232	0.036	.50	393	0.032	-.91
232	13.01	-1.12	193	13.18	-.84	102	5.89	.35	422	0.035	.32	220	0.032	-1.17
422	12.78	-1.65	009	13.19	-.84	220	5.65	.30	Avg	0.035		055	0.030	-1.53
354	12.51 S	-2.63	397	13.16	-.91	409	5.50	.08	231	0.035	-.15	043	0.028	-2.31
131	11.92 S	-3.70	231	13.15	-.93	Avg	5.44		394	0.034	-.24	Meth: 171.10 PCT		
262	11.05 S	-5.77	232	13.01	-1.44	106	5.05	-.38	324	0.034	-.26	Water Soluble Boron		
035	1.46 s	-28.60	422	12.78	-2.21	288	5.18	-.52	106	0.033	-.65	<u>Spectrometric</u>		
Meth: 144.XX PCT			354	12.51 s	-3.65	231	4.17	-.94	288	0.032	-.76	296	0.031	-.71
<u>Sulfur</u>			131	11.92 s	-5.18	023	2.70 X	-2.00	393	0.032	-.78	Meth: 181.00 PPM		
292	15.01 s	5.50	262	11.05 s	-8.17	Meth: 165.00 PCT			043	0.028	-2.12	Cadmium		
330	14.23 A	2.91	035	1.46 s	-41.27	Acid Soluble Boron			Meth: 165.XX PCT			Atomic Absorption		
394	14.23	2.86	Meth: 151.00 PPM			<u>Spectrometric</u>			<u>Acid Soluble Boron</u>			040		
360	13.89	1.77	Arsenic			397	0.050 s	4.60	397	0.050 s	4.53	136		
043	13.85	1.48	<u>Atomic Absorption</u>			296	0.038 R	2.53	296	0.038 R	2.47	Avg		
106	13.73 R	1.35	040	7.64	1.01	137	0.040	1.52	360	0.042	2.04	397		
361	13.79	1.26	136	6.35	.25	257	0.038	.86	354	0.040 R	1.85	289		
288	13.74	1.14	Avg	6.05		392	0.038	.73	137	0.040	1.57	0.60		
220	13.66	1.06	231	4.17	-1.19	391	0.037	.64	257	0.038	.92	-1.49		
393	13.57	.54	Meth: 151.30 PPM			029	0.037	.55	409	0.038	.89	Meth: 181.30 PPM		
324	13.54	.47	Arsenic			258	0.037	.55	392	0.038	.81	Cadmium		
040	13.49	.46	<u>ICP</u>			028	0.037	.42	391	0.037	.71	<u>ICP</u>		
157	13.45	.32	049	6.31	1.13	Avg	0.035		258	0.037	.64	324		
137	13.51	.30	289	0.033	-.74	289	0.033	-.74	029	0.037	.64	049		
136	13.45	.23	040	0.034	-.75	040	0.034	-.75	300	0.037	.64	106		
296	13.43	.18	288	5.18	.46	023	0.033	-.98	028	0.037	.51	232		
Avg	13.42		106	5.05	.24	220	0.032	-1.32	232	0.036	.46	Avg		
351	13.38	-.14	Avg	5.02		055	0.030	-1.71	009	0.036	.45	035		
028	13.36	-.27	023	2.70 X	-1.61	Meth: 165.99 PCT			422	0.035	.31	419		
363	13.36	-.29	Meth: 151.99 PPM			Acid Soluble Boron			Avg	0.035		393		
055	13.34	-.30	Arsenic			<u>Other</u>			231	0.035	-.21	376		
102	13.32	-.34	<u>Other</u>			360	0.042	2.05	394	0.034	-.33	231		
419	13.40	-.35	220	5.65	1.16	354	0.040 R	1.85	324	0.034	-.35	009		
389	13.40	-.35	Avg	5.57		409	0.038	.95	289	0.033	-.60	0.75		
023	13.34	-.37	409	5.50	-.40	300	0.037	.71	040	0.034	-.65	-.96		
095	13.28	-.48	* X=Excluded from lab performance			S/s=Screened Outlier			106	0.033	-.77	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: 181.99 PPM			Meth: 190.00 PCT			Meth: 190.XX PCT			Meth: 191.XX PPM			Meth: 202.XX PPM		
<u>Cadmium</u>			<u>Water Soluble Chlori</u>			<u>Water Soluble Chlori</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>		
<u>Other</u>			<u>Titrimetric</u>			<u>Titrimetric</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>		
409	0.90	.00	394	2.44	-.68	394	2.44	-.52	220	81.50	1.69	009	11.25	1.54
			027	2.42	-.88	027	2.42	-.69	389	77.50	1.14	409	10.50	1.33
			391	2.40	-1.23	391	2.40	-1.01	049	76.29	1.02	232	9.90	1.17
Meth: 181.XX PPM			391			200			419			389		
<u>Cadmium</u>			200			040			009			040		
324	1.40	2.25	040	2.36	-1.79	296	2.41 R	-1.79	393	72.63	.33	419	6.90	.36
049	1.16	1.13	296	2.41 R	-2.09	095	2.29	-2.32	409	71.50	.16	Avg	5.68	
106	1.10	.93	232	0.25 s	-31.89	232	0.25 s	-27.66	Avg	70.48		324	5.55	-.04
040	1.10	.87							102	67.12	-.52	049	5.56	-.06
232	0.95 R	.73	Meth: 190.99 PCT			Meth: 191.00 PPM			232	66.80	-.57	102	4.89	-.23
136	1.05	.61	<u>Water Soluble Chlori</u>			<u>Chromium</u>			231	64.81	-.87	106	3.35	-.66
Avg	0.94		<u>Other</u>			<u>Atomic Absorption</u>			324	62.45	-1.23	320	2.00	-1.02
397	0.91	-.10	234	2.81 S	3.00	220	81.50	.71	376	60.65	-1.51	023	0.98	-1.30
409	0.90	-.17	288	2.60	1.25				288	65.50 R	-1.51	231	0.00	-1.57
035	0.86	-.39	360	2.47	.16	Meth: 191.30 PPM			035	39.20 s	-4.83	Meth: 221.00 PCT		
419	0.85	-.48	009	2.46	.05	<u>Chromium</u>			023	7.40 s	-9.66	<u>Acid Soluble Copper</u>		
393	0.81	-.61	Avg	2.45		<u>ICP</u>			Meth: 202.30 PPM			<u>Atomic Absorption</u>		
376	0.80	-.65	095	2.29	-1.38	389	77.50	1.41	<u>Acid Soluble Cobalt</u>			040		
231	0.80	-.66				049	76.29	1.27	<u>ICP</u>			296		
009	0.75	-.93	Meth: 190.XX PCT			419	70.50	.93	009			028		
289	0.60	-1.65	<u>Water Soluble Chlori</u>			009	74.00	.80	232			Avg		
			<u>Titrimetric</u>			393	72.63	.55	040			095		
			<u>Other</u>			Avg	69.27		419			Meth: 221.30 PCT		
			<u>Water Soluble Chlori</u>			102	67.12	-.36	419			<u>Acid Soluble Copper</u>		
			<u>Titrimetric</u>			232	66.80	-.42	049			<u>ICP</u>		
			<u>Other</u>			231	64.81	-.73	324			422		
			<u>Water Soluble Chlori</u>			324	62.45	-1.12	Avg			354		
			<u>Titrimetric</u>			376	60.65	-1.42	102			300		
			<u>Other</u>			288	65.50 R	-1.53	106			292		
			<u>Water Soluble Chlori</u>			035	39.20 S	-4.98	320			389		
			<u>Titrimetric</u>			023	7.40 s	-10.16	023			330		
			<u>Other</u>			Meth: 191.99 PPM			231			009		
			<u>Water Soluble Chlori</u>			<u>Chromium</u>			Meth: 202.99 PPM			102		
			<u>Titrimetric</u>			<u>Other</u>			<u>Acid Soluble Cobalt</u>			393		
			<u>Other</u>			<u>Water Soluble Chlori</u>			<u>Other</u>			Avg		
			<u>Water Soluble Chlori</u>			<u>Titrimetric</u>			409			035		
			<u>Titrimetric</u>			<u>Other</u>			10.50			0.0014		
			<u>Other</u>			<u>Water Soluble Chlori</u>			.71			-.09		
			<u>Titrimetric</u>			<u>Other</u>			A=Analysis beyond 3-s limits					
			<u>Other</u>			<u>Water Soluble Chlori</u>								

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 221.30 PCT			Meth: 221.XX PCT			Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 251.30 PPM		
Acid Soluble Copper			Acid Soluble Copper			Acid Soluble Iron			Acid Soluble Iron			Lead		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
049	0.0014	-.24	232	0.0010	-1.34	157	0.21	-.27	193	0.22	.08	102	3.82	-.55
106	0.0013	-.41	095	0.0010	-1.53	231	0.21	-.29	Avg	0.22	-.23	231	3.28	-.90
288	0.0013	-.56	Meth: 241.00 PCT			102	0.21	-.45	029	0.21	-.25	106	3.25	-.90
419	0.0012	-.91	Acid Soluble Iron			035	0.20	-.59	055	0.22	-.29	049	2.80	-1.16
231	0.0010	-1.38	<u>Atomic Absorption</u>			292	0.20	-.66	247	0.22	-.38	Meth: 251.99 PPM		
232	0.0010	-1.38	289	0.26	1.40	288	0.21 R	-.73	220	0.22	-.38	Lead		
Meth: 221.99 PCT			397	0.25 R	1.10	106	0.20	-.86	157	0.21	-.39	Other		
Acid Soluble Copper			095	0.25	1.07	394	0.19	-1.03	231	0.21	-.41	409 5.50 .71		
<u>Other</u>			137	0.25	1.01	320	0.17	-1.86	102	0.21	-.58	Meth: 251.XX PPM		
409	0.0013	.87	351	0.24	.64	300	0.17	-1.95	035	0.20	-.71	<u>Lead</u>		
Avg	0.0012		028	0.23	.39	Meth: 241.99 PCT			292	0.20	-.79	393	53.40 s	28.81
220	0.0012	-.87	296	0.23	.35	Acid Soluble Iron			288	0.21 R	-.83	136	7.90	1.49
Meth: 221.XX PCT			136	0.23	.20	<u>Other</u>			106	0.20	-1.00	324	7.05	.97
Acid Soluble Copper			Avg	0.22		247	0.22	.71	394	0.19	-1.18	419	6.70	.79
422	0.0220 s	72.47	043	0.22	-.16	Meth: 241.XX PCT			320	0.17	-2.05	296	6.60	.70
354	0.0032 s	6.54	193	0.22	-.17	Acid Soluble Iron			300	0.17	-2.14	040	6.56	.68
300	0.0020 R	4.13	029	0.21	-.42	354	0.26	1.57	381	0.16	-2.37	397	6.44	.60
292	0.0020	2.17	055	0.22	-.44	409	0.26	1.55	Meth: 251.00 PPM			389	6.20	.45
389	0.0019	1.85	220	0.22	-.44	289	0.26	1.50	Lead			409	5.50	.07
330	0.0018	1.47	040	0.20	-1.08	330	0.26	1.33	<u>Atomic Absorption</u>			Avg	5.45	
009	0.0015	.41	381	0.16	-2.62	397	0.25 R	1.19	136	7.90	1.60	376	4.75	-.42
040	0.0015	.40	Meth: 241.30 PCT			095	0.25	1.18	Avg	6.88		102	3.82	-.98
102	0.0015	.30	Acid Soluble Iron			137	0.25	1.12	296	6.60	-.49	231	3.28	-1.32
393	0.0014	.27	<u>ICP</u>			389	0.25	.95	040	6.56	-.54	106	3.25	-1.33
035	0.0014	.06	354	0.26	1.60	351	0.24	.77	397	6.44	-.64	049	2.80	-1.59
296	0.0014	.06	409	0.26	1.58	028	0.23	.53	Meth: 251.30 PPM			Meth: 261.00 PCT		
Avg	0.0014		330	0.26	1.37	419	0.23	.52	Lead			Acid Soluble Manganese		
028	0.0014	-.04	389	0.25	1.01	296	0.23	.48	<u>ICP</u>			<u>AA</u>		
049	0.0014	-.13	419	0.23	.57	009	0.23	.47	393	53.40 s	29.30	258	0.130 R	2.83
409	0.0013	-.23	009	0.23	.55	324	0.23	.39	324	7.05	1.40	289	0.120	1.34
106	0.0013	-.29	324	0.23	.47	360	0.23	.36	419	6.70	1.21	381	0.118	1.11
288	0.0013	-.45	360	0.23	.44	023	0.22	.34	389	6.20	.88	220	0.115	.95
220	0.0012	-.83	023	0.22	.37	422	0.23	.26	376	4.75	.03	296	0.117	.94
419	0.0012	-.83	422	0.23	.35	Avg	0.22		Avg	4.73		043	0.115	.68
231	0.0010	-1.34	Avg	0.22		136	0.23	.25	Meth: 251.30 PPM			Meth: 261.00 PCT		
* X=Excluded from lab performance			232	0.21	-.12	043	0.22	.20	Lead			Acid Soluble Manganese		
S/s=Screened Outlier			R=Duplicate Range too large			A=Analysis beyond 3-s limits			ICP			AA		

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 261.00 PCT			Meth: 261.30 PCT			Meth: 261.XX PCT			Meth: 281.30 PPM			Meth: 289.XX PPM		
Acid Soluble Manganese			Acid Soluble Manganese			<u>Acid Soluble Manganese</u>			Mercury			<u>Molybdenum</u>		
<u>AA</u>			<u>ICP</u>			137	0.110	.27	<u>ICP</u>			049	10.75 s	10.79
029	0.111	.20	035	0.095	-1.04	360	0.110	.27	049	0.82	.71	009	6.80	.96
137	0.110	.13	292	0.095	-1.16	392	0.109	.19				232	6.80	.96
Avg	0.109		389	0.094	-1.21	040	0.108	.12	Meth: 281.99 PPM			231	6.65	.79
392	0.109	-.19	300	0.051 s	-5.17	Avg	0.108		Mercury			422	6.46	.29
351	0.106	-.35				354	0.107	-.14	<u>Other</u>			Avg	6.32	
257	0.105	-.77	Meth: 261.31 PCT			351	0.106	-.17	409	0.40	.92	102	6.05	-.55
028	0.101	-1.04	Acid Soluble Manganese			095	0.105	-.34	Avg	0.21		288	5.80	-1.32
391	0.097	-1.50	<u>ICP</u>			232	0.104	-.55	220	0.03	-.81	419	5.70	-1.38
397	0.101 R	-1.62	324	0.112	-.71	231	0.105	-.61	Meth: 281.XX PPM			220	3.95 s	-4.78
055	0.095	-1.75				257	0.105	-.61	<u>Mercury</u>					
193	0.059 s	-6.10	Meth: 261.99 PCT			393	0.105	-.61	049	0.82	1.42	Meth: 291.00 PPM		
			Acid Soluble Manganese			422	0.101	-.71	409	0.40	.36	Nickel		
			<u>Other</u>			028	0.101	-.79	Avg	0.32		<u>Atomic Absorption</u>		
			419	0.115	.94	106	0.097	-1.19	220	0.03	-.81	220	35.00	.71
			409	0.110	.34	391	0.097	-1.20	231	0.02	-.83	Meth: 291.30 PPM		
			Avg	0.107		320	0.096	-1.24	Meth: 289.30 PPM			Nickel		
			157	0.095	-1.23	035	0.095	-1.34	<u>Molybdenum</u>			<u>ICP</u>		
			394	0.056 S	-4.78	397	0.101 R	-1.37	049	10.75 s	10.79	049	39.18	1.28
						055	0.095	-1.43	009	6.80	.96	009	38.20	.58
						292	0.095	-1.47	232	6.80	.96	102	37.59	.32
						157	0.095	-1.50	231	6.65	.79	Avg	36.74	
						389	0.094	-1.54	422	6.46	.29	232	35.30	-.54
						193	0.059 s	-5.35	Avg	6.32		231	34.91	-.69
						394	0.056 s	-5.57	102	6.05	-.55	419	36.00	-1.16
						300	0.051 s	-6.16	288	5.80	-1.32	288	36.00	-1.52
									419	5.70	-1.38	023	4.12 s	-12.23
						Meth: 271.99 PCT			Meth: 289.99 PPM			Meth: 291.99 PPM		
						Water Soluble Mangan			<u>Molybdenum</u>			Nickel		
						<u>Other</u>			<u>Other</u>			<u>Other</u>		
						220	0.020	.00	220	3.95 s	.00	035	19.60	-.71
						Meth: 281.00 PPM			Meth: 291.XX PPM			Nickel		
						Mercury			<u>Nickel</u>					
						<u>Atomic Absorption</u>			049			39.18		
						231	0.02	.00	009			38.20		
									009			38.20		

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 291.XX PPM			Meth: 311.99 PCT			Meth: 321.30 PCT			Meth: 321.XX PCT					
<u>Nickel</u>			<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>					
102	37.59	.55	Other			ICP			391	0.134	.83			
288	36.00	.54	422	0.54	1.33	049	0.158	2.40	028	0.133	.80			
419	36.00	.49	102	0.52	.54	330	0.145	1.54	376	0.132	.73			
232	35.30	.34	009	0.51	.31	288	0.140	1.18	393	0.130	.57			
220	35.00	.32	Avg	0.50		102	0.134	.73	040	0.126	.52			
231	34.91	.30	288	0.48	-1.00	376	0.132	.60	389	0.125	.42			
Avg	31.59		035	0.47	-1.16	393	0.130	.44	023	0.125	.29			
035	19.60	-1.11	Meth: 311.XX PCT			389	0.125	.36	009	0.123	.19			
023	4.12 X	-2.50	<u>Sodium</u>			023	0.125	.23	095	0.124	.13			
Meth: 301.00 PPM			422	0.54	1.31	Avg	0.124		Avg	0.123				
Selenium			102	0.52	.82	324	0.123	-.11	324	0.123	-.06			
<u>Atomic Absorption</u>			009	0.51	.63	009	0.123	-.20	300	0.120	-.19			
040	0.08	.71	232	0.50	.47	231	0.120	-.27	231	0.120	-.19			
Meth: 301.99 PPM			Avg	0.48		300	0.120	-.27	220	0.120	-.26			
Selenium			035	0.47	-.26	232	0.121	-.44	232	0.121	-.44			
Other			288	0.48	-.27	354	0.119	-.56	296	0.119	-.47			
409	0.85	-.71	193	0.44	-1.08	320	0.119	-.63	392	0.117	-.47			
Meth: 301.XX PPM			320	0.41	-1.79	419	0.115	-.66	354	0.119	-.55			
Selenium			Meth: 321.00 PCT			292	0.115	-.71	419	0.115	-.61			
409	0.85	.87	<u>Acid Soluble Zinc</u>			035	0.112	-.84	320	0.119	-.63			
Avg	0.47		<u>Atomic Absorption</u>			422	0.110	-1.01	409	0.114	-.66			
040	0.08	-.86	193	0.170 s	4.01	106	0.093	-2.22	043	0.115	-.69			
Meth: 311.00 PCT			029	0.138	1.36	Meth: 321.99 PCT			292	0.115	-.69			
Sodium			391	0.134	1.00	<u>Acid Soluble Zinc</u>			035	0.112	-.82			
<u>Atomic Absorption</u>			028	0.133	.96	<u>Other</u>			258	0.110	-.95			
193	0.44	.71	040	0.126	.62	220	0.120	.91	422	0.110	-.99			
Meth: 311.30 PCT			095	0.124	.24	Avg	0.117		257	0.098	-1.87			
Sodium			Avg	0.121		409	0.114	-.81	106	0.093	-2.30			
<u>Flame Photometric</u>			392	0.117	-.41	Meth: 321.XX PCT								
232	0.50	.85	296	0.119	-.45	<u>Acid Soluble Zinc</u>								
Avg	0.46		043	0.115	-.66	193	0.170 s	3.63						
320	0.41	-.89	258	0.110	-.92	049	0.158	2.67						
			257	0.098	-1.91	330	0.145	1.75						
						288	0.140	1.36						
						029	0.138	1.17						
						102	0.134	.88						

* 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	11	3.28	10.10	0.26	050.99	16	0.17	1.19	0.26
001.99	15	4.44	9.23	0.35	050.XX	75	- 0.59	3.60	0.30
001.XX	26	3.72	8.93	0.32	060.00	8	0.64	2.05	0.03
002.20	2	0.00	1.22	0.04	060.XX	8	0.64	2.05	0.03
002.99	7	- 0.65	2.03	1.16	101.00	14	0.00	0.99	0.22
002.XX	10	- 0.10	0.99	0.25	101.30	21	- 0.51	2.06	0.47
009.10	10	- 0.65	2.26	0.12	101.70	2	22.25	31.46	0.60
009.XX	11	- 0.51	1.97	0.10	101.99	2	0.00	1.22	0.05
010.11	9	- 0.61	2.05	0.22	101.XX	39	- 0.11	2.01	0.35
010.12	7	0.00	1.01	0.23	121.00	22	- 0.43	1.68	0.49
010.60	53	- 0.04	1.04	0.25	121.30	22	- 0.49	2.64	0.48
010.99	3	0.00	1.07	0.27	121.99	2	- 80.61	114.00	1.58
010.XX	70	- 0.04	1.23	0.30	121.XX	47	- 0.56	2.41	0.46
020.10	8	2.04	4.43	0.99	131.00	4	0.00	1.07	0.14
020.20	25	- 0.29	1.33	0.47	131.XX	4	0.00	1.07	0.14
020.40	7	- 0.95	2.64	0.95	144.01	15	0.08	0.99	0.37
020.50	5	0.32	1.16	0.72	144.02	2	9.19	13.00	0.97
020.XX	45	- 0.15	1.79	0.54	144.99	20	- 2.02	6.50	0.39
030.10	3	0.00	1.08	0.25	144.XX	38	- 1.27	7.00	0.44
030.40	2	0.00	1.22	0.00	151.00	3	0.00	1.11	0.13
030.XX	6	3.28	7.67	0.38	151.30	5	0.00	0.97	0.39
040.10	2	0.00	1.22	0.05	151.99	2	0.00	0.34	0.83
040.20	2	0.00	0.45	0.80	151.XX	10	0.00	0.97	0.31
040.40	3	0.00	1.01	0.39	165.00	14	0.388	1.515	0.712
040.XX	7	- 0.22	1.11	0.19	165.99	14	0.107	1.045	0.334
041.10	17	- 2.10	7.16	2.66	165.XX	28	0.246	1.285	0.543
041.20	7	0.00	1.02	0.18	181.00	4	0.00	1.05	0.21
041.40	4	0.00	0.95	0.45	181.30	10	0.00	0.98	0.30
041.50	8	0.00	1.01	0.19	181.XX	15	0.00	0.96	0.28
041.60	11	- 0.66	2.04	0.42	190.00	19	- 1.74	7.36	0.51
041.XX	42	- 0.32	1.68	0.54	190.99	5	0.60	1.63	0.13
048.20	4	0.00	0.90	0.52	190.XX	24	- 1.02	5.81	0.40
048.XX	6	0.00	0.97	0.37	191.30	13	- 1.21	3.12	0.53
050.00	23	- 0.22	1.58	0.74	191.XX	15	- 1.01	2.83	0.46
050.30	13	- 1.36	4.99	0.22	202.30	12	0.02	0.98	0.10
050.50	5	- 0.12	0.97	0.40	202.XX	13	0.01	0.98	0.10
050.51	8	- 0.66	2.09	0.18	221.00	4	0.0000	1.0590	0.1840
050.60	7	0.00	1.04	0.09	221.30	16	4.6091	16.514	0.8737
050.61	7	- 3.92	10.40	0.20	221.99	2	0.0000	1.0838	0.4033

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
221.XX	22	3.6833	15.456	0.8179					
241.00	15	0.06	1.00	0.21					
241.30	21	- 0.02	0.98	0.22					
241.XX	37	0.01	0.98	0.22					
251.00	4	0.00	1.00	0.36					
251.30	9	3.26	9.81	0.19					
251.XX	14	2.06	7.76	0.17					
261.00	16	- 0.280	1.914	0.511					
261.11	3	0.000	1.076	0.249					
261.30	17	- 0.304	1.566	0.293					
261.99	4	- 1.194	2.528	0.348					
261.XX	41	- 0.374	1.806	0.383					
281.99	2	0.00	1.15	0.31					
281.XX	4	0.00	1.06	0.18					
289.30	8	1.11	3.26	2.20					
289.XX	9	0.46	3.62	2.08					
291.30	8	- 1.53	4.36	0.74					
291.XX	10	0.00	1.01	0.17					
301.XX	2	0.00	1.22	0.08					
311.30	2	0.00	1.19	0.20					
311.99	5	0.00	1.03	0.21					
311.XX	8	0.00	1.02	0.17					
321.00	11	0.362	1.527	0.264					
321.30	20	0.000	0.979	0.253					
321.99	2	0.000	1.143	0.312					
321.XX	32	0.144	1.148	0.260					