

- Pass 1 Results for 74 Labs - - Pass 2 Results for 71 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation .	920.03	001.10	2	0.48	0.27	0.10	2	0.48	0.27	0.10
Ammoniacal Nitrogen, Other		001.99	1	0.62	0.00	0.00	1	0.62	0.00	0.00
Method Group 001.XX PCT			3	0.53	0.22	0.07	3	0.53	0.22	0.07
Water Insoluble Nitrogen, Meth I	945.01	003.10	5	4.44	0.37	0.09	5	4.44	0.37	0.09
Water Insoluble Nitrogen, Other		003.99	1	4.25	0.07	0.10	1	4.25	0.07	0.10
Method Group 003.XX PCT			6	4.41	0.34	0.09	6	4.41	0.34	0.09
Ammon & Nitrate N, Devarda	892.01	009.10	2	0.69	0.28	0.05	2	0.69	0.28	0.05
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	6.08	0.12	0.03	4	6.08	0.12	0.03
Total Nitrogen, Salicylic	955.04D	010.12	2	6.18	0.04	0.04	2	6.18	0.04	0.04
Total Nitrogen, Combustion		010.60	48	6.23	0.11	0.07	46	6.22	0.10	0.06
Total Nitrogen, Other		010.99	4	6.19	0.28	0.09	5	6.10	0.31	0.08
Method Group 010.XX PCT			59	6.22	0.14	0.07	56	6.22	0.12	0.06
Total Phosphate, Grav Quimociac	962.02	020.10	9	4.37	0.36	0.07	8	4.42	0.35	0.05
Total Phosphate, Spectrometric	958.01	020.20	10	4.51	0.38	0.12	9	4.50	0.39	0.07
Total Phosphate, Automated	978.01	020.40	2	4.58	0.36	0.07	2	4.58	0.36	0.07
Total Phosphate, ICP		020.50	15	4.73	0.29	0.07	15	4.73	0.29	0.07
Total Phosphate, Other		020.99	3	4.34	0.54	0.05	3	4.34	0.54	0.05
Method Group 020.XX PCT			39	4.55	0.38	0.08	38	4.55	0.38	0.07
InDir Available Phosphate, ICP		040.50	1	6.26	2.09	2.96	1	6.26	2.09	2.96
InDir Available Phosphate, Other		040.99	1	4.39	0.35	0.49	1	4.39	0.35	0.49
Method Group 040.XX PCT			2	5.32	1.63	1.73	2	5.32	1.63	1.73
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	7	3.75	0.41	0.05	6	3.79	0.44	0.03
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	4.20	0.01	0.01	1	4.20	0.01	0.01
Dir Available Phosphate, Automated	978.01	041.40	2	3.30	0.18	0.20	2	3.30	0.18	0.20
Dir Available Phosphate, ICP		041.50	10	4.23	0.13	0.09	9	4.23	0.13	0.05
Dir Available Phosphate, EDTA Extract .	993.01	041.60	13	3.68	0.30	0.12	12	3.66	0.28	0.07
Dir Available Phosphate, Other		041.99	2	3.54	0.37	0.24	2	3.54	0.37	0.24
Method Group 041.XX PCT			35	3.84	0.40	0.10	32	3.84	0.39	0.07
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	0.44	0.01	0.02	1	0.44	0.01	0.02
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	0.39	0.04	0.05	1	0.39	0.04	0.05
Method Group 048.XX PCT			2	0.41	0.04	0.04	2	0.41	0.04	0.04
Soluble Potash, STPB Oxalate	958.02	050.00	2	0.14	0.24	0.21	2	0.14	0.24	0.21
Soluble Potash, AA (Oxalate)		050.30	1	0.42	0.04	0.05	1	0.42	0.04	0.05
Soluble Potash, ICP (Oxalate)		050.50	5	0.45	0.07	0.03	4	0.45	0.07	0.01
Soluble Potash, ICP (Citrate)		050.51	5	0.44	0.24	0.04	4	0.41	0.26	0.01
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	1	0.37	0.01	0.01	1	0.37	0.01	0.01
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	2	0.57	0.10	0.01	2	0.57	0.10	0.01
Soluble Potash, Other		050.99	9	0.48	0.08	0.01	9	0.48	0.08	0.01
Method Group 050.XX PCT			25	0.44	0.17	0.04	23	0.44	0.16	0.02

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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
Free Water, Vacuum Oven	965.08B	060.00	2	3.62	0.37	0.01	2	3.62	0.37	0.01
Free Water, Karl Fischer	972.01	060.20	1	1.44	0.06	0.08	1	1.44	0.06	0.08
Method Group 060.XX PCT			3	2.90	1.16	0.03	3	2.90	1.16	0.03
Acid Soluble Calcium, AA	945.04	101.00	11	2.19	0.15	0.05	11	2.19	0.15	0.05
Acid Soluble Calcium, ICP		101.30	27	2.31	0.18	0.05	26	2.32	0.18	0.04
Acid Soluble Calcium, Other		101.99	3	2.23	0.15	0.17	3	2.23	0.15	0.17
Method Group 101.XX PCT			41	2.27	0.18	0.06	39	2.28	0.17	0.04
Acid Soluble Magnesium, AA	984.01	121.00	2	0.64	0.01	0.01	2	0.64	0.01	0.01
Acid Soluble Magnesium, ICP		121.30	10	0.63	0.03	0.02	9	0.63	0.03	0.01
Method Group 121.XX PCT			12	0.63	0.03	0.02	11	0.64	0.02	0.01
Water Soluble Magnesium, ICP		131.30	1	0.15	0.01	0.01	1	0.15	0.01	0.01
Sulfur, Gravimetric	980.02b	144.02	1	0.86	0.00	0.00	1	0.86	0.00	0.00
Sulfur, Spectrometric		144.70	1	1.11	0.01	0.01	1	1.11	0.01	0.01
Sulfur, Other		144.99	8	0.78	0.16	0.02	7	0.75	0.15	0.02
Method Group 144.XX PCT			10	0.82	0.17	0.02	9	0.80	0.17	0.01
Arsenic, Atomic Absorption		151.00	2	3.73	0.49	0.05	2	3.73	0.49	0.05
Arsenic, ICP		151.30	4	3.75	1.21	0.33	4	3.75	1.21	0.33
Arsenic, Other		151.99	1	3.75	0.07	0.10	1	3.75	0.07	0.10
Method Group 151.XX PPM			7	3.74	0.92	0.22	6	3.62	0.91	0.09
Acid Soluble Boron, Other		165.99	3	0.010	0.007	0.002	3	0.010	0.007	0.002
Cadmium, Atomic Absorption		181.00	1	0.80	0.14	0.20	1	0.80	0.14	0.20
Cadmium, ICP		181.30	8	1.40	0.67	0.20	7	1.31	0.61	0.03
Method Group 181.XX PPM			9	1.34	0.66	0.20	8	1.25	0.59	0.05
Chromium, Atomic Absorption		191.00	2	168.25	19.29	23.50	2	168.25	19.29	23.50
Chromium, ICP		191.30	11	184.52	16.65	7.16	10	185.42	16.28	4.38
Method Group 191.XX PPM			13	182.02	17.71	9.67	11	184.02	16.13	3.98
Acid Soluble Cobalt, AA		202.00	2	51.50	4.73	3.00	2	51.50	4.73	3.00
Acid Soluble Cobalt, ICP	965.11	202.30	10	64.45	5.67	1.40	10	64.45	5.67	1.40
Method Group 202.XX PPM			12	62.29	7.33	1.67	11	62.95	7.25	1.28
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	0.0238	0.0043	0.0055	2	0.0238	0.0043	0.0055
Acid Soluble Copper, ICP		221.30	18	0.0250	0.0028	0.0008	17	0.0252	0.0027	0.0005
Method Group 221.XX PCT			20	0.0249	0.0030	0.0013	18	0.0251	0.0027	0.0005
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	10	3.96	0.19	0.11	9	3.99	0.16	0.08
Acid Soluble Iron, ICP		241.30	28	4.00	0.22	0.12	25	4.00	0.21	0.07
Acid Soluble Iron, Other		241.99	1	4.12	0.01	0.02	1	4.12	0.01	0.02
Method Group 241.XX PCT			39	3.99	0.21	0.12	36	4.00	0.20	0.08
Lead, Atomic Absorption		251.00	2	21.93	8.76	0.65	2	21.93	8.76	0.65
Lead, ICP		251.30	9	36.78	5.60	1.43	9	36.78	5.60	1.43
Method Group 251.XX PPM			11	34.08	8.41	1.29	11	34.08	8.41	1.29

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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
Acid Soluble Manganese, AA	972.02a	261.00	1	0.150	0.000	0.000	1	0.150	0.000	0.000
Acid Soluble Manganese, AA	972.02b	261.11	1	0.157	0.002	0.003	1	0.157	0.002	0.003
Acid Soluble Manganese, ICP	972.02a	261.30	9	0.155	0.007	0.002	8	0.156	0.007	0.002
Method Group 261.XX PCT			11	0.155	0.007	0.002	10	0.156	0.006	0.002
Mercury, Atomic Absorption		281.00	1	0.23	0.03	0.04	1	0.23	0.03	0.04
Molybdenum, ICP		289.30	8	10.37	1.39	0.21	8	10.37	1.39	0.21
Nickel, Atomic Absorption		291.00	2	47.18	15.60	4.25	2	47.18	15.60	4.25
Nickel, ICP		291.30	10	55.56	4.81	2.15	9	55.06	4.47	1.25
Method Group 291.XX PPM			13	55.78	9.48	2.91	12	55.42	9.67	2.29
Selenium, ICP		301.30	1	6.50	0.99	1.40	1	6.50	0.99	1.40
Selenium, Other		301.99	1	2.01	0.01	0.01	1	2.01	0.01	0.01
Method Group 301.XX PPM			2	4.25	2.65	0.71	2	4.25	2.65	0.71
Sodium, Atomic Absorption	983.04	311.00	1	0.31	0.00	0.00	1	0.31	0.00	0.00
Sodium, Flame Photometric	974.01	311.30	1	0.19	0.01	0.01	1	0.19	0.01	0.01
Sodium, Other		311.99	4	0.23	0.02	0.01	4	0.23	0.02	0.01
Method Group 311.XX PCT			6	0.23	0.04	0.01	6	0.23	0.04	0.01
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	4	0.052	0.003	0.003	3	0.051	0.001	0.001
Acid Soluble Zinc, ICP		321.30	18	0.051	0.004	0.001	17	0.051	0.004	0.001
Method Group 321.XX PCT			24	0.051	0.005	0.002	22	0.052	0.005	0.001

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>			029 4.38 -.23			<u>Combustion</u>			<u>Combustion</u>			040 6.30 1.04		
444	0.71	.88	300	4.25	-.48	230	6.45 X	2.24	035	6.17	-.54	072	6.27	.69
Avg	0.48		230	3.79 X	-1.80	095	6.43	2.00	482	6.17	-.72	025	6.28	.69
504	0.25	-.85	Meth: 009.10 PCT			042	6.35 R	1.94	234	6.15	-.81	360	6.29	.61
Meth: 001.99 PCT			Ammon & Nitrate N			073	6.29 R	1.83	136	6.15	-.88	105	6.24	.59
<u>Ammoniacal Nitrogen</u>			<u>Devarda</u>			451	6.34	1.27	402	6.18	-.88	483	6.27	.57
<u>Other</u>			444	0.93	.87	040	6.30	1.24	390	6.15	-.95	325	6.27	.57
506	0.62	.00	Avg	0.69		072	6.27	.83	443	6.10	-1.22	024	6.29	.55
Meth: 001.XX PCT			504	0.45	-.86	025	6.28	.82	102	6.09	-1.32	007	6.25	.47
<u>Ammoniacal Nitrogen</u>			Meth: 010.11 PCT			360	6.29	.72	041	6.09 X	-1.60	486	6.27	.46
444	0.71	.88	Total Nitrogen			105	6.24	.71	157	6.04	-1.88	029	6.25	.45
506	0.62	.42	<u>Modified Comprehensi</u>			483	6.27	.67	275	5.94	-2.85	055	6.26	.39
Avg	0.53		105	6.21	1.17	325	6.27	.67	426	5.72 s	-5.02	231	6.27	.35
504	0.25	-1.25	220	6.14	.53	024	6.29	.66	Meth: 010.99 PCT			324	6.26	.34
Meth: 003.10 PCT			Avg	6.08		007	6.25	.56	<u>Total Nitrogen</u>			406	6.26	.27
<u>Water Insoluble Nitr</u>			090	6.04	-.37	486	6.27	.55	<u>Other</u>			307	6.25	.26
<u>Meth I</u>			114	5.92	-1.31	029	6.25	.53				177	6.25	.24
090	4.75	.86	455	5.45 S	-5.26	055	6.26	.47	493	6.45	1.14	233	6.23	.22
504	4.64	.57	474	4.65 S	-11.91	231	6.27	.41	506	6.39	.98	389	6.25	.22
220	4.63	.53	Meth: 010.12 PCT			324	6.26	.40	300	6.10	.10	377	6.23	.21
Avg	4.44		Total Nitrogen			406	6.26	.32	Avg	6.19		049	6.23	.21
029	4.38	-.26	<u>Salicylic</u>			307	6.25	.30	460	5.80	-.94	023	6.24	.16
230	3.79 X	-1.76	185	6.20	.62	177	6.25	.28	500	5.73 S	-1.15	Avg	6.22	
Meth: 003.99 PCT			Avg	6.18		389	6.25	.26	Meth: 010.XX PCT			354	6.21	-.11
<u>Water Insoluble Nitr</u>			504	6.16	-1.05	377	6.23	.25	<u>Total Nitrogen</u>			292	6.21	-.15
<u>Other</u>			481	5.10 S	-27.30	049	6.23	.25	428	7.05 s	6.73	185	6.20	-.20
300	4.25	.71	Meth: 010.60 PCT			023	6.24	.18	485	6.67 s	4.54	018	6.19	-.26
Meth: 003.XX PCT			Total Nitrogen			Avg	6.22		351	6.74 s	4.23	356	6.19	-.26
<u>Water Insoluble Nitr</u>			<u>Combustion</u>			354	6.21	-.15	034	6.56	2.78	291	6.19	-.27
090	4.75	1.02	428	7.05 s	8.11	292	6.21	-.19	493	6.45	1.91	405	6.19	-.33
504	4.64	.70	485	6.67 s	5.47	106	6.20	-.23	117	6.46	1.90	105	6.21	-.34
220	4.63	.66	291	6.19	-.34	018	6.19	-.33	230	6.45 X	1.86	368	6.18 X	-.35
Avg	4.41		351	6.74 s	5.10	356	6.19	-.33	095	6.43	1.67	043	6.18	-.38
Meth: 003.99 PCT			405	6.19	-.41	291	6.19	-.34	042	6.35 R	1.61	035	6.17	-.43
<u>Water Insoluble Nitr</u>			034	6.56 s	3.35	368	6.18 X	-.44	506	6.39	1.56	482	6.17	-.59
<u>Other</u>			117	6.46	2.29	043	6.18	-.47	073	6.29 R	1.52	504	6.16	-.62
									451	6.34	1.06	234	6.15	-.66

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.XX PCT			Meth: 020.20 PCT			Meth: 020.50 PCT			Meth: 020.XX PCT			Meth: 041.10 PCT		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Dir Available Phosph</u>		
220	6.14	-.67	<u>Spectrometric</u>			<u>ICP</u>			291 4.50 -.15			<u>Grav Quimociac</u>		
136	6.15	-.72	504	4.79	.76	482 2.12 s -8.89			322 4.48 -.20			504 4.30 1.17		
402	6.18	-.72	292	4.77	.70	Meth: 020.99 PCT			368 4.46 X -.24			Avg 3.79		
390	6.15	-.77	324	4.70	.58	<u>Total Phosphate</u>			356 4.35 -.54			055 3.57 R -.52		
443	6.10	-1.00	405	4.60	.24	<u>Other</u>			035 4.27 -.74			485 3.55 -.55		
300	6.10	-1.03	Avg 4.50			500 5.01 1.24			460 4.16 -1.04			185 3.53 -.59		
102	6.09	-1.08	356	4.35	-.40	Avg 4.34			474 4.08 -1.24			072 3.49 -.67		
041	6.09 X	-1.32	231	4.07	-1.12	460 4.16 -.33			157 4.07 -1.25			102 3.40 -.87		
090	6.04	-1.53	489	4.07	-1.13	443 3.84 -.92			231 4.07 -1.26			Meth: 041.20 PCT		
157	6.04	-1.54	177	4.03	-1.22	Meth: 020.XX PCT			489 4.07 -1.28			<u>Dir Available Phosph</u>		
275	5.94	-2.35	481	1.26 s	-8.38	<u>Total Phosphate</u>			177 4.03 -1.37			<u>Spectrometric</u>		
114	5.92	-2.47	Meth: 020.40 PCT			483 5.35 2.08			114 4.01 -1.46			504 4.20 .71		
460	5.80 A	-3.45	<u>Total Phosphate</u>			406 5.16 1.58			090 3.98 -1.50			Meth: 041.40 PCT		
500	5.73 s	-3.98	<u>Automated</u>			444 5.02 1.21			049 3.95 -1.58			<u>Dir Available Phosph</u>		
426	5.72 s	-4.14	105	4.89	.87	234 5.01 1.20			443 3.84 -1.87			<u>Automated</u>		
455	5.45 s	-6.32	Avg 4.58			500 5.01 1.19			482 2.12 s -6.37			095 3.38 .45		
481	5.10 s	-9.17	035	4.27	-.86	426 4.97 1.09			481 1.26 s -8.61			Avg 3.30		
474	4.65 s	-12.81	Meth: 020.10 PCT			105 4.89 .89			Meth: 040.50 PCT			027 3.22 -1.14		
<u>Total Phosphate</u>			Meth: 020.50 PCT			231 4.85 .76			<u>InDir Available Phos</u>			Meth: 041.50 PCT		
<u>Grav Quimociac</u>			<u>Total Phosphate</u>			506 4.61 R .75			<u>ICP</u>			<u>Dir Available Phosph</u>		
105	4.82	1.14	<u>ICP</u>			451 4.82 .72			072 6.26 .71			Meth: 040.99 PCT		
493	4.78	1.01	483	5.35	2.10	105 4.82 .71			Meth: 040.50 PCT			<u>ICP</u>		
444	4.69	.76	444	5.02	.98	504 4.79 .64			<u>InDir Available Phos</u>			023 4.46 1.79		
504	4.60	.52	234	5.01	.97	493 4.78 .58			Meth: 040.99 PCT			325 4.25 R 1.55		
322	4.48	.16	426	4.97	.83	292 4.77 .57			<u>Other</u>			368 4.34 X .86		
Avg	4.42		231	4.85	.39	389 4.75 .52			275 4.39 .71			377 4.33 .82		
157	4.07	-.98	451	4.82	.36	324 4.70 .48			Meth: 040.XX PCT			Avg 4.23		
114	4.01 R	-1.22	389	4.75	.07	444 4.69 .36			<u>InDir Available Phos</u>			354 4.23 -.05		
090	3.98	-1.25	157	4.67	-.29	307 4.67 .35			072 6.26 1.07			043 4.19 -.34		
049	3.95	-1.33	390	4.64	-.33	157 4.67 .33			Avg 5.32			231 4.17 -.50		
Meth: 020.20 PCT			307	4.67	-.33	402 4.65 .32			275 4.39 -.59			007 4.20 -.83		
<u>Total Phosphate</u>			402	4.65	-.34	390 4.64 .24			Meth: 041.10 PCT			486 4.11 -1.02		
<u>Spectrometric</u>			025	4.55	-.62	504 4.60 .16			<u>Dir Available Phosph</u>			055 4.07 -1.34		
406	5.16	1.69	291	4.50	-.80	405 4.60 .11			<u>Grav Quimociac</u>					
506	4.61 R	.78	368	4.46 X	-.92	Avg 4.55			040 4.45 1.51					
Meth: 020.20 PCT			474	4.08	-2.21	025 4.55 -.03								

* 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: 041.60 PCT			Meth: 041.XX PCT			Meth: 048.XX PCT			Meth: 050.60 PCT			Meth: 050.XX PCT		
<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
<u>EDTA Extract</u>			486	4.11	.70	504	0.39	-.96	<u>Flame (Oxalate)</u>			500	0.52	.51
231	4.29	2.23	055	4.07	.58	Meth: 050.00 PCT			351	0.37	.71	389	0.49	.33
106	3.93 R	1.56	034	3.87	.13	Soluble Potash			Meth: 050.61 PCT			444	0.44	.31
034	3.87	.75	105	3.87	.08	<u>STPB Oxalate</u>			Soluble Potash			368	0.49 X	.29
105	3.87	.74	029	3.85	.06	230			<u>Flame (Citrate)</u>			024	0.49	.29
029	3.85	.67	Avg	3.84		230			095			354	0.47	.21
042	3.75	.50	105	3.83	-.31	Avg			018			506	0.47	.17
Avg	3.66		042	3.75	-.37	072			018			504	0.44	.12
018	3.65	-.12	018	3.65	-.50	Meth: 050.10 PCT			Avg			486	0.45	.05
043	3.58	-.31	043	3.58	-.69	Soluble Potash			024			390	0.44	.03
233	3.56	-.38	233	3.56	-.73	<u>STPB Citrate</u>			Meth: 050.99 PCT			Avg	0.44	
024	3.49	-.62	055	3.57	-.74	444			Soluble Potash			185	0.42	-.21
136	3.45	-.76	485	3.55	-.77	Meth: 050.30 PCT			Other			325	0.40	-.24
220	3.32	-1.24	185	3.53	-.82	Soluble Potash			455			351	0.37	-.42
351	3.28	-1.41	072	3.49	-.91	AA (Oxalate)			474			292	0.35	-.55
Meth: 041.99 PCT			024	3.49	-.91	185			482			460	0.34	-.64
<u>Dir Available Phosph</u>			136	3.45	-1.02	042			500			230	0.28 R	-1.64
<u>Other</u>			102	3.40	-1.15	Meth: 050.50 PCT			389			072	0.00	-2.72
105	3.83	.87	095	3.38	-1.21	Soluble Potash			368			072	0.00	-2.72
Avg	3.54		220	3.32	-1.37	ICP (Oxalate)			Avg			Meth: 060.00 PCT		
230	3.24 X	-.87	351	3.28	-1.48	231			506			Free Water		
Meth: 041.XX PCT			230	3.24 X	-1.59	354			504			<u>Vacuum Oven</u>		
<u>Dir Available Phosph</u>			027	3.22 R	-1.69	Avg			325			007		
023	4.46	1.59	Meth: 048.10 PCT			390			460			Avg		
040	4.45	1.58	Water Soluble Phosph			444			Meth: 050.XX PCT			474		
368	4.34 X	1.29	<u>Grav Quimociac</u>			292			<u>Soluble Potash</u>			Meth: 060.20 PCT		
377	4.33	1.26	504			0.44			095			Free Water		
504	4.30	1.19	Meth: 048.20 PCT			Meth: 050.51 PCT			455			<u>Karl Fischer</u>		
231	4.29	1.16	Water Soluble Phosph			Soluble Potash			444			504		
325	4.25 R	1.16	<u>Spectrometric</u>			ICP (Citrate)			018			1.44		
354	4.23	.99	504			0.39			377			.71		
007	4.20	.96	Meth: 048.XX PCT			377			072			Meth: 060.XX PCT		
106	3.93 R	.93	<u>Water Soluble Phosph</u>			485			482			Free Water		
504	4.20	.91	504			0.44			291			007		
043	4.19	.90	Avg			0.41			486			474		
231	4.17	.85	072			0.00			Avg			Avg		
			Avg			-1.55			482			504		
												1.44		
												-1.25		

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 101.00 PCT			Meth: 101.30 PCT			Meth: 101.XX PCT			Meth: 121.30 PCT			Meth: 144.01 PCT		
Acid Soluble Calcium			Acid Soluble Calcium			Acid Soluble Calcium			Acid Soluble Magnesi			Sulfur		
<u>AA</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Gravimetric</u>		
506	3.24 s	7.35	035	2.23	-.50	426	2.30	.22	090	2.10 s	53.81	114	12.66 S	.00
029	2.39	1.41	177	2.18	-.81	023	2.31	.18	102	0.68	1.82			
157	2.36	1.18	027	2.24 R	-.81	390	2.31	.16	041	0.67 X	1.26			
040	2.32	.90	291	2.14	-1.01	095	2.30	.14	390	0.64	.19			
485	2.27	.56	474	2.10	-1.23	Avg	2.28	.06	482	0.64	.19			
028	2.22	.18	106	2.10	-1.24	485	2.27	-.07	035	0.64	.18			
Avg	2.19		486	1.99	-1.84	489	2.28	-.14	Avg	0.63				
351	2.15	-.26	086	1.95	-2.05	482	2.24	-.26	389	0.63	-.18			
258	2.16	-.28	230	1.46 s	-4.77	157	2.27	-.29	354	0.61	-.86			
481	2.14	-.40				035	2.23	-.30	474	0.61	-1.09			
055	2.13	-.67	Meth: 101.99 PCT			028	2.22	-.36	086	0.60	-1.24			
043	2.07	-.81	Acid Soluble Calcium			177	2.18	-.63	027	0.61 R	-1.73			
493	1.88	-2.13	<u>Other</u>			258	2.16	-.72						
			426	2.30	.48	351	2.15	-.73	Meth: 121.XX PCT			Meth: 144.70 PCT		
			489	2.28	.33	027	2.24 R	-.74	Acid Soluble Magnesi			Sulfur		
			Avg	2.23		291	2.14	-.82	<u>Other</u>			Other		
			042	2.13	-1.47	481	2.14	-.83	090	2.10 s	58.93	072	0.98 R	1.56
						055	2.13	-.97	102	0.68	1.95	102	0.88	.89
			Meth: 101.XX PCT			474	2.10	-1.06	041	0.67 X	1.34	086	0.88	.84
			<u>Acid Soluble Calcium</u>			106	2.10	-1.07	504	0.64	.44	389	0.85	.66
			506	3.24 s	5.70	043	2.07	-1.20	105	0.64	.28	483	0.83	.52
			433	2.68	2.29	042	2.13 R	-1.38	390	0.64	.17	482	0.75	.00
			483	2.60	1.85	486	1.99	-1.68	035	0.64	.17	Avg	0.75	
			090	2.60	1.84	086	1.95	-1.89	Avg	0.64		354	0.55	-1.33
			444	2.51	1.33	493	1.88	-2.31	482	0.64	-.20	390	0.51	-1.59
			231	2.51	1.30	230	1.46 s	-4.68	389	0.63	-.24			
			041	2.43 X	.85				354	0.61	-.98			
			029	2.39	.68	Meth: 121.00 PCT			474	0.61	-1.24	Meth: 144.XX PCT		
			114	2.39	.64	Acid Soluble Magnesi			086	0.60	-1.40	<u>Sulfur</u>		
			324	2.38	.59	<u>AA</u>			027	0.61 R	-1.92	114	12.66 s	67.83
			368	2.38 X	.58	105	0.64	.50				474	1.11	1.74
			157	2.36	.50	Avg	0.64		Meth: 131.30 PCT			072	0.98 R	1.05
			102	2.33	.45	504	0.64	-1.12	Water Soluble Magnes			102	0.88	.47
			389	2.36	.45				<u>ICP</u>			086	0.88	.43
			307	2.35	.43				027	0.15	-.71	292	0.86	.33
			220	2.33	.28							389	0.85	.27
			040	2.32	.27							483	0.83	.15
												Avg	0.80	
												482	0.75	-.29

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 144.XX PCT</u>			<u>Meth: 165.99 PCT</u>			<u>Meth: 191.00 PPM</u>			<u>Meth: 202.00 PPM</u>			<u>Meth: 221.00 PCT</u>		
<u>Sulfur</u>			<u>Acid Soluble Boron</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
354	0.55	-1.43	354	0.018	1.05	481	170.00	.09	481	55.00	.98	043	0.2340 S	48.35
390	0.51	-1.65	483	0.011	.20	Avg	168.25		Avg	51.50		506	0.0250	1.18
<u>Meth: 151.00 PPM</u>			<u>Avg</u>			<u>506</u>			<u>506</u>			<u>Avg</u>		
<u>Arsenic</u>			<u>0.010</u>			<u>166.50</u>			<u>48.00</u>			<u>0.0238</u>		
<u>Atomic Absorption</u>			<u>389</u>			<u>-1.22</u>			<u>-.74</u>			<u>504</u>		
136	4.15	.87	<u>-1.16</u>			<u>Meth: 191.30 PPM</u>			<u>Meth: 202.30 PPM</u>			<u>Meth: 221.30 PCT</u>		
Avg	3.73		<u>Meth: 181.00 PPM</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
506	3.30	-.86	<u>Cadmium</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
<u>Meth: 151.30 PPM</u>			<u>Atomic Absorption</u>			102	211.44	1.61	035	73.55	1.61	102	0.0300	1.77
<u>Arsenic</u>			136	0.80	-.71	086	205.76	1.27	474	73.50	1.60	482	0.0300	1.77
<u>ICP</u>			<u>Meth: 181.30 PPM</u>			035	205.50	1.23	102	69.63	.92	444	0.0285	1.23
368	6.95 S	2.68	<u>Cadmium</u>			Avg	185.42		Avg	64.45		433	0.0278	.95
041	4.78 X	.85	<u>ICP</u>			220	182.50	-.18	368	62.40 X	-.36	041	0.0266 X	.52
474	4.50	.74	035	2.05 R	1.66	027	183.50	-.19	086	62.14	-.42	307	0.0260	.29
230	3.77 X	.04	220	2.20	1.46	368	181.50 X	-.24	220	62.00	-.44	220	0.0260	.28
Avg	3.75		474	2.00	1.13	041	175.50 X	-.66	482	61.70	-.51	Avg	0.0252	
102	1.95	-1.49	230	1.67 X	.59	230	173.50 X	-.76	230	58.05 X	-1.14	368	0.0252 X	-.03
<u>Meth: 151.99 PPM</u>			Avg	1.31		482	172.00	-.86	027	58.00	-1.15	389	0.0249	-.16
<u>Arsenic</u>			102	1.02	-.48	444	175.50 R	-1.24	<u>Meth: 202.XX PPM</u>			086	0.0247	-.19
<u>Other</u>			086	0.85	-.76	474	163.00	-1.38	<u>Acid Soluble Cobalt</u>			474	0.0238	-.52
220	3.75	.71	041	0.80 X	-.84	<u>Meth: 191.XX PPM</u>			035	73.55	1.46	402	0.0235	-.65
<u>Meth: 151.XX PPM</u>			368	0.65 X	-1.09	<u>Chromium</u>			474	73.50	1.46	095	0.0235	-.65
<u>Arsenic</u>			<u>Meth: 181.XX PPM</u>			102	211.44	1.71	102	69.63	.92	027	0.0235	-.65
368	6.95 s	3.70	<u>Cadmium</u>			086	205.76	1.37	041	63.53 X	.26	230	0.0223 X	-1.08
041	4.78 X	1.28	035	2.05 R	1.78	035	205.50	1.33	Avg	62.95		390	0.0218	-1.28
474	4.50 R	1.11	220	2.20	1.61	Avg	184.02		368	62.40 X	-.08	035	0.0221 R	-1.61
136	4.15	.59	474	2.00	1.27	220	182.50	-.10	086	62.14	-.13	354	0.0205	-1.74
230	3.77 X	.17	230	1.67 X	.71	027	183.50	-.16	220	62.00	-.14	<u>Meth: 221.XX PCT</u>		
220	3.75	.16	Avg	1.25		368	181.50 X	-.16	482	61.70	-.21	<u>Acid Soluble Copper</u>		
Avg	3.62		102	1.02	-.39	041	175.50 X	-.59	230	58.05 X	-.69	043	0.2340 s	76.94
506	3.30	-.35	086	0.85	-.67	482	172.00	-.79	027	58.00	-.70	102	0.0300	1.82
102	1.95	-1.83	041	0.80 X	-.76	481	170.00	-.87	481	55.00 R	-1.17	482	0.0300	1.82
<u>Meth: 151.00 PPM</u>			136	0.80	-.78	444	175.50 R	-1.21	506	48.00	-2.06	444	0.0285	1.28
<u>Arsenic</u>			368	0.65 X	-1.01	474	163.00	-1.30	<u>Meth: 221.00 PCT</u>			433	0.0278	1.01
<u>Atomic Absorption</u>			<u>Meth: 181.00 PPM</u>			506	166.50 R	-1.82	<u>Acid Soluble Copper</u>			041	0.0266 X	.58
136	4.15	.87	<u>Cadmium</u>			<u>Meth: 191.00 PPM</u>			<u>Acid Soluble Cobalt</u>			307	0.0260	.35
Avg	3.73		035	2.05 R	1.78	<u>Chromium</u>			<u>AA</u>			<u>Atomic Absorption</u>		
506	3.30	-.35	220	2.20	1.61	481	170.00	.09	481	55.00	.98	043	0.2340 S	48.35
102	1.95	-1.83	474	2.00	1.27	Avg	168.25		Avg	51.50		506	0.0250	1.18
<u>Meth: 151.30 PPM</u>			035	205.50	1.23	506	166.50	-1.22	506	48.00	-.74	Avg	0.0238	
<u>Arsenic</u>			Avg	185.42		<u>Meth: 202.30 PPM</u>			<u>Acid Soluble Cobalt</u>			<u>Atomic Absorption</u>		
<u>ICP</u>			220	182.50	-.18	<u>Chromium</u>			<u>ICP</u>			<u>Atomic Absorption</u>		
368	6.95 S	2.68	027	183.50	-.19	102	211.44	1.61	035	73.55	1.61	043	0.2340 S	48.35
041	4.78 X	.85	368	181.50 X	-.24	086	205.76	1.27	474	73.50	1.60	506	0.0250	1.18
474	4.50	.74	041	175.50 X	-.66	035	205.50	1.23	102	69.63	.92	Avg	0.0238	
230	3.77 X	.04	230	173.50 X	-.76	Avg	185.42		Avg	64.45		504	0.0225	-.31
Avg	3.75		482	172.00	-.86	220	182.50	-.18	041	63.53 X	-.36	<u>Meth: 221.30 PCT</u>		
102	1.95	-1.49	444	175.50 R	-1.24	027	183.50	-.19	086	62.40 X	-.36	<u>Acid Soluble Copper</u>		
<u>Meth: 151.99 PPM</u>			474	163.00	-1.38	368	181.50 X	-.24	220	62.00	-.44	<u>ICP</u>		
<u>Arsenic</u>			<u>Meth: 191.XX PPM</u>			041	175.50 X	-.66	482	61.70	-.51	102	0.0300	1.77
<u>Other</u>			<u>Chromium</u>			230	173.50 X	-.76	230	58.05 X	-1.14	482	0.0300	1.77
220	3.75	.71	102	211.44	1.71	482	172.00	-.86	027	58.00	-1.15	444	0.0285	1.23
<u>Meth: 151.XX PPM</u>			086	205.76	1.37	444	175.50 R	-1.24	<u>Meth: 202.XX PPM</u>			433	0.0278	.95
<u>Arsenic</u>			035	205.50	1.33	474	163.00	-1.38	<u>Acid Soluble Cobalt</u>			041	0.0266 X	.52
368	6.95 s	3.70	Avg	184.02		<u>Meth: 191.00 PPM</u>			035	73.55	1.46	307	0.0260	.29
041	4.78 X	1.28	220	182.50	-.10	<u>Chromium</u>			474	73.50	1.46	220	0.0260	.28
474	4.50 R	1.11	027	183.50	-.16	102	211.44	1.71	102	69.63	.92	Avg	0.0252	
136	4.15	.59	368	181.50 X	-.16	086	205.76	1.37	041	63.53 X	.26	368	0.0252 X	-.03
230	3.77 X	.17	041	175.50 X	-.59	035	205.50	1.33	Avg	62.95		389	0.0249	-.16
220	3.75	.16	230	173.50 X	-.69	Avg	184.02		368	62.40 X	-.08	086	0.0247	-.19
Avg	3.62		482	172.00	-.79	220	182.50	-.10	086	62.14	-.13	474	0.0238	-.52
506	3.30	-.35	481	170.00	-.87	027	183.50	-.16	220	62.00	-.14	402	0.0235	-.65
102	1.95	-1.83	444	175.50 R	-1.21	368	181.50 X	-.16	482	61.70	-.21	095	0.0235	-.65
<u>Meth: 151.00 PPM</u>			474	163.00	-1.30	041	175.50 X	-.59	230	58.05 X	-.69	027	0.0235	-.65
<u>Arsenic</u>			506	166.50 R	-1.82	230	173.50 X	-.69	027	58.00	-.70	230	0.0223 X	-1.08
<u>Atomic Absorption</u>			<u>Meth: 181.00 PPM</u>			482	172.00	-.79	<u>Meth: 202.XX PPM</u>			390	0.0218	-1.28
136	4.15	.87	<u>Cadmium</u>			481	170.00	-.87	<u>Acid Soluble Cobalt</u>			035	0.0221 R	-1.61
Avg	3.73		035	2.05 R	1.78	444	175.50 R	-1.21	035	73.55	1.46	354	0.0205	-1.74
506	3.30	-.35	220	2.20	1.61	474	163.00	-1.30	474	73.50	1.46	<u>Meth: 221.XX PCT</u>		
102	1.95	-1.83	474	2.00	1.27	<u>Meth: 191.00 PPM</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
<u>Meth: 151.30 PPM</u>			035	205.50	1.23	<u>Chromium</u>			<u>AA</u>			<u>Atomic Absorption</u>		
<u>Arsenic</u>			Avg	185.42		481	170.00	.09	481	55.00	.98	043	0.2340 S	48.35
<u>ICP</u>			220	182.50	-.18	Avg	168.25		Avg	51.50		506	0.0250	1.18
368	6.95 S	2.68	027	183.50	-.19	506	166.50	-1.22	506	48.00	-.74	Avg	0.0238	
041	4.78 X	.85	368	181.50 X	-.24	<u>Meth: 202.30 PPM</u>			<u>Acid Soluble Cobalt</u>			<u>Atomic Absorption</u>		
474	4.50	.74	041	175.50 X	-.66	<u>Chromium</u>			<u>ICP</u>			<u>Atomic Absorption</u>		
230	3.77 X	.04	230	173.50 X	-.76	102	211.44	1.61	035	73.55	1.61	043	0.2340 S	48.35
Avg	3.75		482	172.00	-.86	086	205.76	1.27	474	73.50	1.60	506	0.0250	1.18
102	1.95	-1.49	444	175.50 R	-1.24	035	205.50	1.23	102	69.63	.92	Avg	0.0238	
<u>Meth: 151.99 PPM</u>			474	163.00	-1.38	Avg	185.42		Avg	64.45		504	0.0225	-.31
<u>Arsenic</u>			<u>Meth: 191.XX PPM</u>			220	182.50	-.18	<u>Meth: 202.30 PPM</u>			<u>Meth: 221.30 PCT</u>		
<u>Other</u>			<u>Chromium</u>			027	183.50	-.19	<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
220	3.75	.71	102	211.44	1.71	368	181.50 X	-.24	<u>ICP</u>			<u>ICP</u>		
<u>Meth: 151.XX PPM</u>			086	205.76	1.37	041	175.50 X	-.66	035	73.55	1.61	102	0.0300	1.77
<u>Arsenic</u>			035	205.50	1.33	230	173.50 X	-.76	474	73.50	1.60	482	0.0300	1.77
368	6.95 s	3.70	Avg	184.02		482	172.00	-.86	102	69.63	.92	444	0.0285	1.23
041	4.78 X	1.28</												

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 221.XX PCT			Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 241.XX PCT			Meth: 251.XX PPM		
<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Lead</u>		
220	0.0260	.33	<u>ICP</u>			035	4.50 s	3.26	474	3.70	-1.50	027	34.00	-.12
368	0.0252 X	.04	086	4.35	1.71	324	4.38	1.93	027	3.83 R	-1.61	086	32.42	-.24
Avg	0.0251		090	4.28	1.33	483	4.38	1.91	506	3.69	-1.79	230	30.90 X	-.38
389	0.0249	-.12	433	4.25	1.18	086	4.35	1.81	307	3.14 s	-4.27	136	29.50	-.55
086	0.0247	-.14	231	4.22	1.05	055	4.06 R	1.79	482	0.92 s	-15.33	481	14.35	-2.35
474	0.0238	-.46	041	4.01 R	.98	090	4.28	1.42	Meth: 251.00 PPM			Meth: 261.00 PCT		
402	0.0235	-.60	106	4.05	.84	485	4.26	1.32	<u>Lead</u>			<u>Acid Soluble Mangane</u>		
095	0.0235	-.60	444	4.10	.46	433	4.25	1.26	<u>Atomic Absorption</u>			<u>AA</u>		
027	0.0235	-.60	368	4.05 X	.22	231	4.22	1.13	136	29.50	.87	504	0.150	.00
504	0.0225	-.96	389	4.03	.19	041	4.01 R	1.02	Avg	21.93		Meth: 261.11 PCT		
230	0.0223 X	-1.03	390	4.03	.13	106	4.05	.89	481	14.35	-.87	<u>Acid Soluble Mangane</u>		
390	0.0218	-1.22	023	4.01	.04	029	4.08	.81	Meth: 251.30 PPM			<u>AA</u>		
035	0.0221 R	-1.58	Avg	4.00		042	4.12	.62	<u>Lead</u>			105 0.157 .71		
354	0.0205	-1.69	426	4.00	-.24	444	4.10	.52	<u>ICP</u>			Meth: 261.30 PCT		
506	0.0250 R	-1.84	095	3.91	-.46	481	4.08	.39	035	63.10 S	4.71	<u>Acid Soluble Mangane</u>		
Meth: 241.00 PCT			354	3.92	-.49	105	4.03	.30	220	49.00	2.19	<u>ICP</u>		
<u>Acid Soluble Iron</u>			402	3.90	-.52	368	4.05 X	.27	474	43.00	1.11	474 0.194 s 5.58		
<u>Atomic Absorption</u>			220	3.88	-.60	426	4.00	.25	102	36.92	.07	390 0.164 1.05		
485	4.26	1.66	177	3.87	-.66	389	4.03	.23	Avg	36.78		102 0.162 .75		
029	4.08	1.02	102	3.86	-.74	504	4.03	.19	368	35.55 X	-.31	307 0.160 .61		
481	4.08	.52	486	3.84	-.79	390	4.03	.18	041	34.70 X	-.39	482 0.160 .53		
105	4.03	.39	234	3.81	-.96	023	4.01	.07	482	34.55	-.41	389 0.157 .31		
504	4.03	.26	157	3.80	-1.01	Avg	4.00		027	34.00	-.53	041 0.158 X .17		
Avg	3.99		291	3.76	-1.18	043	3.96	-.24	086	32.42	-.80	Avg 0.156		
043	3.96	-.27	230	3.76 X	-1.21	095	3.91	-.44	230	30.90 X	-1.06	354 0.149 -1.18		
258	3.95	-.56	474	3.70	-1.49	258	3.95	-.46	Meth: 251.XX PPM			035 0.146 R -1.70		
040	3.83	-1.03	027	3.83 R	-1.58	354	3.92	-.48	<u>Lead</u>			086 0.144 -1.91		
493	3.73	-1.66	307	3.14 S	-4.16	402	3.90	-.50	035	63.10 s	3.46	Meth: 261.XX PCT		
506	3.69 R	-2.20	482	0.92 s	-14.82	220	3.88	-.58	220	49.00	1.78	<u>Acid Soluble Mangane</u>		
Meth: 241.30 PCT			Meth: 241.99 PCT			177 3.87 -0.64			474 43.00 1.06			474 0.194 s 6.05		
<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			102 3.86 -0.72			102 36.92 .34			390 0.164 1.22		
<u>ICP</u>			<u>Other</u>			486 3.84 -0.78			368 35.55 X .23			102 0.162 .90		
035	4.50 s	3.11	042	4.12	.71	040	3.83	-.85	041	34.70 X	.10	307 0.160 .73		
324	4.38	1.82				234	3.81	-.95	482	34.55	.09	482 0.160 .66		
483	4.38	1.80				157	3.80	-1.01	Meth: 251.00 PPM					
055	4.06 R	1.72				291	3.76	-1.17	<u>Lead</u>					
						230	3.76 X	-1.21	035	63.10 s	3.46			
						493	3.73	-1.35	220	49.00	1.78			
									474	43.00	1.06			
									102	36.92	.34			
									368	35.55 X	.23			
									041	34.70 X	.10			
									482	34.55	.09			
									Avg	34.08				

* 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: 261.XX PCT			Meth: 291.30 PPM			Meth: 301.99 PPM			Meth: 321.00 PCT			Meth: 321.XX PCT		
<u>Acid Soluble Manganese</u>			<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
389	0.157	.37	<u>ICP</u>			<u>Other</u>			<u>Atomic Absorption</u>			483	0.058	1.31
041	0.158 X	.28	444	75.13 s	4.57	485	2.01	.71	506	0.065 S	13.88	481	0.055 R	1.23
105	0.157	.26	102	63.54	1.92	Meth: 301.XX PPM			481	0.055 R	5.89	041	0.056 X	.88
Avg	0.156		041	60.10 R	1.61	<u>Selenium</u>			043	0.052	.90	307	0.055	.71
504	0.150	-.92	035	60.90	1.31	368			504	0.052	.50	102	0.053	.27
354	0.149	-1.16	086	56.30	.37	Avg			Avg	0.051		043	0.052	.16
035	0.146 R	-1.72	220	55.50	.15	485			105	0.050	-1.20	504	0.052	.06
086	0.144	-1.94	Avg	55.06		-0.85			Meth: 321.30 PCT			Avg	0.052	
Meth: 281.00 PPM			474	53.00	-.46	Meth: 311.00 PCT			Acid Soluble Zinc			368	0.051 X	-.05
Mercury			482	53.00	-.57	Sodium			<u>ICP</u>			390	0.052	-.06
<u>Atomic Absorption</u>			230	51.60 X	-.79	<u>Atomic Absorption</u>			433	0.064 s	2.91	402	0.052	-.11
230	0.23 X	.71	027	51.00	-.91	504			354	0.060	2.01	389	0.051	-.14
Meth: 289.30 PPM			368	50.70 X	-.98	Meth: 311.30 PCT			483	0.058	1.56	105	0.050	-.30
Molybdenum			Meth: 291.XX PPM			Sodium			041	0.056 X	1.07	292	0.050	-.35
<u>ICP</u>			<u>Nickel</u>			<u>Flame Photometric</u>			307	0.055	.86	482	0.050	-.35
220	19.00 s	6.24	444	75.13	2.08	086			102	0.053	.36	095	0.050	-.40
035	11.80	1.03	102	63.54	.85	.71			402	0.052	.12	474	0.050	-.46
086	11.71	.97	041	60.10 R	.72	Meth: 311.99 PCT			390	0.052	.05	220	0.049	-.64
041	11.35 X	.73	506	60.35	.67	Sodium			368	0.051 X	.01	086	0.048	-.75
368	11.10 X	.53	035	60.90	.57	<u>Other</u>			Avg	0.051		027	0.045	-1.56
Avg	10.37		086	56.30	.15	474			389	0.051	-.10	035	0.043 R	-2.11
102	10.20	-.15	220	55.50	.05	.123			482	0.050	-.34	230	0.041 X	-2.23
230	10.25 X	-.20	Avg	55.42		.59			292	0.050	-.34			
433	8.53	-1.32	474	53.00	-.25	Avg			072	0.050	-.34			
474	8.00	-1.70	482	53.00	-.29	0.23			095	0.050	-.41			
Meth: 291.00 PPM			230	51.60 X	-.40	0.21			474	0.050	-.47			
Nickel			027	51.00	-.46	0.21			220	0.049	-.67			
<u>Atomic Absorption</u>			368	50.70 X	-.49	-1.11			086	0.048	-.79			
506	60.35	.89	481	34.00	-2.21	Meth: 311.XX PCT			027	0.045 R	-1.73			
Avg	47.18		Meth: 301.30 PPM			Sodium			035	0.043 s	-2.36			
481	34.00	-.84	Selenium			504			230	0.041 X	-2.48			
			<u>ICP</u>			474			Meth: 321.XX PCT					
			368			0.23			<u>Acid Soluble Zinc</u>					
			6.50 X			0.21			506			0.065 s		
			.71			0.21			433			0.064		
						-0.52			354			0.060		
						-0.73						1.71		
						-1.03								

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

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.10	2	0.00	1.19	0.20	144.99	8	0.19	1.10	0.12
001.XX	3	0.00	1.09	0.20	144.XX	11	6.26	20.44	0.21
003.10	5	0.00	1.05	0.14	151.00	2	0.00	1.22	0.07
003.XX	6	0.00	1.04	0.15	151.30	5	0.53	1.49	0.28
009.10	2	0.00	1.22	0.11	151.XX	8	0.58	1.56	0.29
009.XX	2	0.00	1.22	0.11	165.99	3	0.000	1.103	0.148
010.11	6	- 2.86	4.97	0.24	165.XX	3	0.000	1.103	0.148
010.12	3	- 9.10	15.77	0.53	181.30	8	0.15	1.05	0.40
010.60	53	0.33	1.87	0.66	181.XX	9	0.15	1.07	0.39
010.99	5	0.00	1.05	0.16	191.00	2	0.00	0.13	0.86
010.XX	66	- 0.36	2.64	0.51	191.30	11	- 0.06	0.98	0.36
020.10	9	- 0.13	1.04	0.13	191.XX	13	- 0.12	0.98	0.52
020.20	11	- 0.74	2.70	0.25	202.00	2	0.00	1.05	0.45
020.40	2	0.00	1.22	0.10	202.30	10	0.00	1.02	0.15
020.50	16	- 0.56	2.43	0.14	202.XX	12	- 0.09	1.02	0.16
020.99	3	0.00	1.11	0.07	221.00	3	16.113	27.911	0.8526
020.XX	36	- 0.45	1.99	0.28	221.30	18	- 0.063	1.0142	0.2926
040.XX	2	0.00	0.81	0.65	221.XX	21	3.6104	16.825	0.5829
041.10	7	- 0.07	0.97	0.08	241.00	10	- 0.19	1.08	0.51
041.40	2	0.00	0.63	0.74	241.30	31	- 0.56	2.93	0.60
041.50	10	0.01	0.92	0.57	241.XX	42	- 0.42	2.64	0.57
041.60	13	0.07	1.00	0.38	251.00	2	0.00	1.22	0.04
041.99	2	0.00	1.13	0.33	251.30	10	0.47	1.77	0.16
041.XX	30	- 0.08	1.02	0.31	251.XX	12	0.29	1.39	0.10
050.00	2	0.00	0.84	0.63	261.30	10	0.400	2.091	0.251
050.50	5	- 0.03	0.93	0.33	261.XX	12	0.372	2.058	0.254
050.51	5	0.11	0.96	0.12	289.30	9	0.69	2.28	0.26
050.61	3	17.29	29.95	1.03	289.XX	9	0.69	2.28	0.26
050.99	10	2.28	7.27	0.33	291.00	2	0.00	1.19	0.19
050.XX	26	1.96	6.98	0.74	291.30	11	0.51	1.63	0.47
060.00	2	0.00	1.22	0.01	291.XX	13	0.04	0.97	0.23
060.XX	3	0.00	1.12	0.02	301.XX	2	0.00	1.20	0.19
101.00	12	0.59	2.27	0.55	311.99	4	0.00	1.05	0.21
101.30	28	- 0.19	1.32	0.19	311.XX	6	0.00	1.04	0.10
101.99	3	0.00	0.61	0.76	321.00	5	3.282	5.682	3.064
101.XX	42	- 0.01	1.48	0.34	321.30	20	- 0.030	1.274	0.364
121.00	2	0.00	0.04	0.87	321.XX	24	- 0.043	1.028	0.360
121.30	11	4.80	16.28	0.56					
121.XX	13	4.45	16.40	0.57					