

- Pass 1 Results for 84 Labs - - Pass 2 Results for 84 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	9	9.62	0.53	0.10	8	9.66	0.54	0.06
Ammoniacal Nitrogen, Other		001.99	13	10.02	0.47	0.11	11	10.11	0.44	0.05
Method Group 001.XX PCT			22	9.86	0.53	0.11	19	9.92	0.53	0.06
Nitrate Nitrogen, Other		002.99	4	2.67	4.78	0.01	4	2.67	4.78	0.01
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	1.00	0.02	0.03	1	1.00	0.02	0.03
Nitrogen From Urea, Other		005.99	1	10.11	0.37	0.53	1	10.11	0.37	0.53
Method Group 005.XX PCT			2	5.55	5.26	0.28	2	5.55	5.26	0.28
Ammon & Nitrate N, Devarda	892.01	009.10	5	10.17	0.32	0.10	5	10.17	0.32	0.10
Ammon & Nitrate N, Other		009.99	1	10.79	0.01	0.01	1	10.79	0.01	0.01
Method Group 009.XX PCT			6	10.27	0.38	0.09	6	10.27	0.38	0.09
Total Nitrogen, Modified Comprehensive	978.02	010.11	7	10.10	0.08	0.04	7	10.10	0.08	0.04
Total Nitrogen, Salicylic	955.04D	010.12	3	10.31	0.32	0.03	3	10.31	0.32	0.03
Total Nitrogen, Combustion		010.60	54	10.25	0.13	0.07	52	10.26	0.13	0.07
Total Nitrogen, Other		010.99	4	10.43	0.22	0.10	4	10.43	0.22	0.10
Method Group 010.XX PCT			68	10.25	0.16	0.07	65	10.25	0.15	0.06
Total Phosphate, Grav Quimociac	962.02	020.10	6	30.65	0.65	0.18	6	30.65	0.65	0.18
Total Phosphate, Spectrometric	958.01	020.20	14	30.09	0.58	0.15	14	30.09	0.58	0.15
Total Phosphate, Automated	978.01	020.40	6	30.24	0.34	0.23	6	30.24	0.34	0.23
Total Phosphate, ICP		020.50	7	30.21	0.67	0.37	7	30.21	0.67	0.37
Total Phosphate, Other		020.99	3	30.22	0.43	0.02	3	30.22	0.43	0.02
Method Group 020.XX PCT			36	30.24	0.59	0.20	34	30.24	0.59	0.16
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.11	0.01	0.01	1	0.11	0.01	0.01
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.38	0.00	0.00	1	0.38	0.00	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.14	0.10	0.00	2	0.14	0.10	0.00
Method Group 030.XX PCT			4	0.19	0.13	0.00	4	0.19	0.13	0.00
InDir Available Phosphate, Grav Quim ..	960.02	040.10	2	30.27	0.17	0.01	2	30.27	0.17	0.01
InDir Available Phosphate, Spectrometri	960.02	040.20	1	23.24	0.01	0.01	1	23.24	0.01	0.01
InDir Available Phosphate, Automated ..	960.02	040.40	2	30.08	0.32	0.18	2	30.08	0.32	0.18
Method Group 040.XX PCT			5	28.79	2.93	0.08	5	28.79	2.93	0.08
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	18	30.39	0.32	0.17	17	30.41	0.29	0.12
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	29.36	0.21	0.29	1	29.36	0.21	0.29
Dir Available Phosphate, Automated	978.01	041.40	5	30.27	0.37	0.26	4	30.37	0.14	0.05
Dir Available Phosphate, ICP		041.50	9	29.93	0.27	0.15	9	29.93	0.27	0.15
Dir Available Phosphate, EDTA Extract .	993.01	041.60	11	30.12	0.26	0.30	11	30.12	0.26	0.30
Dir Available Phosphate, Other		041.99	1	30.06	0.04	0.05	1	30.06	0.04	0.05
Method Group 041.XX PCT			46	30.20	0.38	0.22	43	30.22	0.36	0.17
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	19.78	0.55	0.06	3	19.78	0.55	0.06
Soluble Potash, STPB Oxalate	958.02	050.00	15	5.68	0.25	0.14	13	5.71	0.25	0.09
Soluble Potash, STPB Citrate	969.04	050.10	4	5.55	0.35	0.19	3	5.45	0.28	0.04

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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
Soluble Potash, AA (Oxalate)		050.30	10	5.38	0.33	0.09	9	5.36	0.33	0.06
Soluble Potash, AA (Citrate)		050.31	1	5.12	0.01	0.01	1	5.12	0.01	0.01
Soluble Potash, ICP (Oxalate)		050.50	8	5.59	0.17	0.10	8	5.59	0.17	0.10
Soluble Potash, ICP (Citrate)		050.51	8	5.70	0.23	0.05	8	5.70	0.23	0.05
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	7	5.33	0.17	0.06	7	5.33	0.17	0.06
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	10	5.62	0.21	0.10	9	5.63	0.21	0.06
Soluble Potash, Other		050.99	15	5.67	0.33	0.11	14	5.69	0.33	0.08
Method Group 050.XX PCT			79	5.57	0.31	0.10	71	5.57	0.28	0.07
Free Water, Vacuum Oven	965.08B	060.00	6	2.10	0.55	0.06	5	2.08	0.60	0.02
Free Water, Other		060.99	1	5.43	0.03	0.04	1	5.43	0.03	0.04
Method Group 060.XX PCT			7	2.57	1.31	0.06	6	2.64	1.41	0.02
Acid Soluble Calcium, ICP		101.30	15	3.26	0.19	0.09	14	3.26	0.20	0.08
Method Group 101.XX PCT			15	3.26	0.19	0.09	14	3.26	0.20	0.08
Acid Soluble Magnesium, ICP		121.30	18	0.65	0.05	0.01	17	0.65	0.05	0.01
Sulfur, Gravimetric	980.02a	144.01	23	6.65	0.17	0.10	22	6.64	0.17	0.09
Sulfur, Gravimetric	980.02b	144.02	1	7.15	0.07	0.10	1	7.15	0.07	0.10
Sulfur, Other		144.99	24	6.63	0.34	0.12	22	6.62	0.33	0.08
Method Group 144.XX PCT			48	6.65	0.28	0.11	44	6.66	0.25	0.08
Arsenic, Atomic Absorption		151.00	1	6.90	0.14	0.20	1	6.90	0.14	0.20
Arsenic, ICP		151.30	10	6.97	2.67	0.91	9	6.75	2.67	0.66
Arsenic, Other		151.99	1	6.85	0.03	0.04	1	6.85	0.03	0.04
Method Group 151.XX PPM			12	6.96	2.43	0.78	11	6.77	2.41	0.56
Acid Soluble Boron, Spectrometric	982.01	165.00	1	0.022	0.000	0.000	1	0.022	0.000	0.000
Acid Soluble Boron, Other		165.99	7	0.029	0.013	0.001	6	0.025	0.008	0.001
Method Group 165.XX PCT			8	0.028	0.012	0.001	7	0.024	0.008	0.001
Cadmium, Atomic Absorption		181.00	2	7.22	0.73	0.20	2	7.22	0.73	0.20
Cadmium, ICP		181.30	15	5.86	1.16	0.23	14	5.89	1.19	0.19
Cadmium, Other		181.99	1	6.85	0.02	0.03	1	6.85	0.02	0.03
Method Group 181.XX PPM			18	6.07	1.18	0.21	16	6.15	1.21	0.15
Water Soluble Chlorine, Other		190.99	1	4.31	0.03	0.04	1	4.31	0.03	0.04
Chromium, ICP		191.30	16	76.97	7.72	3.10	16	76.97	7.72	3.10
Chromium, Other		191.99	1	70.80	0.42	0.60	1	70.80	0.42	0.60
Method Group 191.XX PPM			17	76.61	7.62	2.95	17	76.61	7.62	2.95
Acid Soluble Cobalt, ICP	965.11	202.30	14	2.83	0.74	0.21	13	2.80	0.75	0.16
Acid Soluble Cobalt, Other		202.99	1	2.73	0.08	0.11	1	2.73	0.08	0.11
Method Group 202.XX PPM			15	2.82	0.71	0.20	14	2.80	0.72	0.16
Acid Soluble Copper, Atomic Absorption	975.01	221.00	5	0.0053	0.0008	0.0006	5	0.0053	0.0008	0.0006
Acid Soluble Copper, ICP		221.30	18	0.0054	0.0004	0.0002	18	0.0054	0.0004	0.0002
Acid Soluble Copper, Other		221.99	1	0.0048	0.0000	0.0001	1	0.0048	0.0000	0.0001

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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 221.XX PCT			24	0.0053	0.0005	0.0003	23	0.0054	0.0004	0.0002
Acid Soluble Iron, ICP		241.30	18	1.38	0.10	0.05	17	1.38	0.10	0.04
Lead, Atomic Absorption		251.00	1	17.50	0.71	1.00	1	17.50	0.71	1.00
Lead, ICP		251.30	11	9.26	4.76	0.37	10	9.59	4.87	0.18
Lead, Other		251.99	1	9.13	0.44	0.62	1	9.13	0.44	0.62
Method Group 251.XX PPM			14	11.18	6.71	0.42	13	11.58	6.80	0.27
Acid Soluble Manganese, ICP	972.02a	261.30	14	0.081	0.005	0.002	13	0.081	0.005	0.001
Acid Soluble Manganese, Other		261.99	1	0.077	0.001	0.001	1	0.077	0.001	0.001
Method Group 261.XX PCT			15	0.081	0.005	0.002	14	0.081	0.004	0.001
Mercury, Atomic Absorption		281.00	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Mercury, Other		281.99	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Method Group 281.XX PPM			2	0.04	0.00	0.00	2	0.04	0.00	0.00
Molybdenum, ICP		289.30	15	8.72	1.60	0.45	15	8.72	1.60	0.45
Molybdenum, Other		289.99	1	9.31	0.01	0.01	1	9.31	0.01	0.01
Method Group 289.XX PPM			16	8.75	1.56	0.42	16	8.75	1.56	0.42
Nickel, Atomic Absorption		291.00	1	18.50	0.71	1.00	1	18.50	0.71	1.00
Nickel, ICP		291.30	12	12.64	2.44	0.55	12	12.64	2.44	0.55
Nickel, Other		291.99	1	13.85	0.07	0.10	1	13.85	0.07	0.10
Method Group 291.XX PPM			14	13.14	2.74	0.55	14	13.14	2.74	0.55
Selenium, ICP		301.30	3	0.17	0.41	0.33	3	0.17	0.41	0.33
Selenium, Other		301.99	1	0.52	0.03	0.04	1	0.52	0.03	0.04
Method Group 301.XX PPM			4	0.26	0.38	0.26	3	0.17	0.27	0.01
Sodium, Other		311.99	5	0.31	0.03	0.01	5	0.31	0.03	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	14	2.182	0.080	0.050	14	2.182	0.080	0.050
Acid Soluble Zinc, ICP		321.30	35	2.200	0.178	0.047	34	2.194	0.176	0.040
Acid Soluble Zinc, Other		321.99	1	2.470	0.000	0.000	1	2.470	0.000	0.000
Method Group 321.XX PCT			51	2.208	0.166	0.047	50	2.204	0.164	0.042

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: 005.XX PCT			Meth: 010.11 PCT			Meth: 010.60 PCT				
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Nitrogen From Urea</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>				
<u>MgO Distillation</u>									<u>Modified Comprehensi</u>			<u>Combustion</u>				
444	10.27	1.11	397	10.20	.52	444	10.11	.87	029	10.03	-.87	106	10.30	.32		
416	10.15	.89	416	10.15	.42	Avg	5.55		073	9.97	-1.69	041	10.28	.31		
405	10.10	.81	409	10.12	.37	232	1.00	-.87	322	9.68 s	-5.29	372	10.28	.24		
117	10.05	.70	405	10.10	.35	Meth: 009.10 PCT			Meth: 010.12 PCT			389	10.28	.18		
Avg	9.66		457	10.10	.33	Ammon & Nitrate N			Total Nitrogen			023	10.27	.18		
029	9.64	-.17	096	10.06	.27	<u>Devarda</u>			<u>Salicylic</u>			292	10.28	.16		
309	9.30 R	-.77	117	10.05	.23	258	10.52	1.08	455	10.73	1.29	Avg	10.26			
456	9.20	-.87	Avg	9.92		200	10.33	.51	Avg	10.31		040	10.24	-.17		
232	9.15	-.95	420	9.63	-.57	444	10.22	.38	254	10.12	-.58	291	10.24	-.17		
230	8.78	-1.63	029	9.64	-.57	Avg	10.17		185	10.08	-.71	402	10.24	-.20		
Meth: 001.99 PCT			368	9.57 R	-.76	090	10.17	-.09	Meth: 010.60 PCT			029	10.24	-.29		
<u>Ammoniacal Nitrogen</u>			234	9.43 R	-1.05	420	9.63	-1.71	Total Nitrogen			390	10.25	-.30		
<u>Other</u>			309	9.30 R	-1.24	Meth: 009.99 PCT			<u>Combustion</u>			177	10.23	-.34		
372	10.75	1.45	456	9.20	-1.38	Ammon & Nitrate N			405			14.85 s	36.61	096	10.20	-.48
393	10.57	1.03	232	9.15	-1.46	<u>Other</u>			230			10.60 s	3.62	232	10.23	-.52
300	10.32	.47	027	9.06	-1.63	393			10.79	-.71	043	10.62 s	3.16	034	10.20	-.53
371	10.23	.26	230	8.78	-2.16	Meth: 009.XX PCT			330			10.55	2.35	409	10.21	-.56
105	10.21	.25	Meth: 002.99 PCT			Ammon & Nitrate N			428			10.55	2.35	027	10.19	-.60
397	10.20	.22	Nitrate Nitrogen			393			10.79	1.36	457	10.48	1.78	255	10.17 X	-.73
409	10.12	.06	<u>Other</u>			258			10.52	.65	102	10.43	1.37	028	10.21	-.75
Avg	10.11		137	10.42	1.62	200			10.33	.18	007	10.40	1.12	233	10.17	-.76
457	10.10	-.09	Avg	2.67		Avg			10.27		073	10.40	1.08	262	10.20	-.93
096	10.06	-.15	393	0.21	-.52	090			10.17	-.29	369	10.36	1.03	325	10.20	-.93
420	9.63	-1.10	027	0.04	-.55	444			10.22	-.34	035	10.37	.99	443	10.15	-.96
368	9.57 R	-1.30	232	0.03	-.55	420			9.63	-1.73	055	10.38	.96	377	10.14	-.98
234	9.43 R	-1.65	Meth: 005.00 PCT			Meth: 010.11 PCT			131			10.38	.92	406	10.10	-1.28
027	9.06	-2.38	Nitrogen From Urea			Total Nitrogen			450			10.35	.83	354	10.15 R	-1.30
Meth: 001.XX PCT			<u>Urease (as N)</u>			Modified Comprehensi			393			10.36	.80	072	10.12	-1.32
<u>Ammoniacal Nitrogen</u>			232	1.00	.71	296			10.35	.77	049	10.35	.68	368	10.09	-1.35
372	10.75	1.57	Meth: 005.99 PCT			105			10.20	1.32	025	10.34	.67	009	10.09	-1.42
393	10.57	1.22	Nitrogen From Urea			114			10.16	.79	231	10.34	.62	426	10.08	-1.51
300	10.32	.75	<u>Other</u>			456			10.12	.69	157	10.28	.61	234	10.02	-1.97
444	10.27	.65	444	10.11	-.71	211			10.12	.23	095	10.30	.40	444	10.01	-2.03
371	10.23	.57				309			10.10	.03	057	10.27	.36	360	9.93 A	-2.82
105	10.21	.55				Avg			10.10		Meth: 010.60 PCT			351	9.73 s	-4.26

* 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: 010.99 PCT			Meth: 010.XX PCT			Meth: 010.XX PCT			Meth: 020.20 PCT			Meth: 020.XX PCT		
Total Nitrogen			Total Nitrogen			Total Nitrogen			Total Phosphate			Total Phosphate		
<u>Other</u>			<u>389 10.28 .23</u>			<u>029 10.03 -1.50</u>			<u>Spectrometric</u>			<u>443 40.87 s 18.11</u>		
117	10.64	.97	292	10.28	.22	234	10.02	-1.62	372	23.62 s	-11.18	457	34.09 s	6.54
072	10.62	.86	023	10.27	.21	444	10.01	-1.67				041	31.84	2.72
Avg	10.43		Avg	10.25		073	9.97	-1.95	Meth: 020.40 PCT			330	31.35	1.93
420	10.29	-.64	040	10.24	-.09	360	9.93 R	-2.36	Total Phosphate			114	30.91	1.13
105	10.18	-1.19	291	10.24	-.09	351	9.73 s	-3.59	<u>Automated</u>			371	30.83	1.01
			402	10.24	-.09	322	9.68 s	-3.90	035	30.82	1.73	035	30.82	.98
Meth: 010.XX PCT			029	10.24	-.21				096	30.40	.55	258	30.79	.94
<u>Total Nitrogen</u>			452	10.22	-.22	Meth: 020.10 PCT			Avg	30.24		368	30.49 R	.75
405	14.85 s	31.63	247	10.23	-.23	Total Phosphate			105	30.20	-.54	406	30.56	.55
455	10.73 A	3.29	177	10.23	-.24	<u>Grav Quimociac</u>			409	30.03	-.65	416	30.55	.52
230	10.60 s	3.19	390	10.25	-.24	041	31.84	1.83	456	29.98	-.80	090	30.52	.48
043	10.62 s	2.80	096	10.20	-.33	114	30.91	.40	042	30.00	-.92	137	30.50	.44
117	10.64	2.70	105	10.20	-.35	Avg	30.65		Meth: 020.50 PCT			450	30.34	.44
072	10.62	2.55	034	10.20	-.39	090	30.52	-.19	Total Phosphate			452	30.49	.42
428	10.55	2.11	232	10.23	-.41	117	30.40	-.39	<u>ICP</u>			096	30.40	.31
330	10.55	2.11	409	10.21	-.43	105	30.36	-.45	330	31.35	1.75	117	30.40	.30
457	10.48	1.61	027	10.19	-.43	444	29.86	-1.27	368	30.49	.69	105	30.36	.23
102	10.43	1.26	255	10.17 X	-.55				402	30.25	.06	231	30.30	.20
007	10.40	1.05	233	10.17	-.58	Meth: 020.20 PCT			402	30.25	.06	292	30.29	.10
073	10.40	1.02	028	10.21	-.61	Total Phosphate			Avg	30.21		402	30.25	.03
369	10.36	.95	114	10.16	-.66	<u>Spectrometric</u>			393	30.19	-.04	Avg	30.24	
035	10.37	.92	443	10.15	-.75	457	34.09 s	6.90	247	29.70	-.77	393	30.19	-.08
055	10.38	.91	325	10.20	-.76	371	30.83	1.28	426	30.15	-.84	200	30.17	-.13
131	10.38	.88	262	10.20	-.76	258	30.79	1.20	389	29.35	-1.29	105	30.20	-.31
450	10.35	.79	377	10.14	-.77	406	30.56	.80	157	28.75 S	-2.61	409	30.03	-.38
393	10.36	.77	105	10.18	-.77	416	30.55	.78	390	27.95 S	-3.67	456	29.98	-.46
296	10.35	.74	254	10.12	-.88	450	30.34	.59	255	26.57 S	-5.45	232	29.96	-.51
049	10.35	.67	211	10.12	-.91	231	30.30	.39	Meth: 020.99 PCT			042	30.00	-.53
025	10.34	.65	456	10.12	-.94	292	30.29	.34	Total Phosphate			324	29.90	-.60
231	10.34	.61	309	10.10	-1.01	200	30.17	.14	<u>Other</u>			444	29.86	-.78
157	10.28	.55	406	10.10	-1.02	Avg	30.09		443	40.87 S	25.11	234	29.72	-.90
095	10.30	.42	354	10.15 R	-1.06	232	29.96	-.29	137	30.50	.66	309	29.70	-.91
106	10.30	.36	072	10.12	-1.07	324	29.90	-.38	452	30.49	.63	247	29.70	-.92
057	10.27	.33	368	10.09	-1.08	234	29.72	-.68	Avg	30.22		426	30.15 R	-.96
041	10.28	.31	009	10.09	-1.14	309	29.70	-.68	455	29.67	-1.29	455	29.67	-.97
420	10.29	.26	185	10.08	-1.15	369	29.62	-.83				369	29.62	-1.06
372	10.28	.26	426	10.08	-1.22	262	28.60	-2.59				389	29.35	-1.51

* 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: 020.XX PCT</u>			<u>Meth: 040.20 PCT</u>			<u>Meth: 041.10 PCT</u>			<u>Meth: 041.60 PCT</u>			<u>Meth: 041.XX PCT</u>		
<u>Total Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
262	28.60	-2.79	372	23.24	.71	102	30.04	-1.31	397	30.46	1.30	029	30.42	.55
157	28.75 s	-3.00				300	29.88	-1.84	043	30.36	1.02	043	30.36	.49
390	27.95 s	-4.20				049	29.98 R	-2.18	073	30.27	.72	025	30.40	.48
255	26.57 s	-6.22	<u>Meth: 040.40 PCT</u>			405	5.31 s	-86.46	034	30.14	.37	185	30.39	.47
372	23.62 s	-11.24	<u>InDir Available Phos</u>						177	30.14	.13	007	30.29	.41
			<u>Automated</u>						<u>Avg</u>			136	30.37	.40
<u>Meth: 030.10 PCT</u>			096	30.34	.88	<u>Meth: 041.20 PCT</u>			057	30.12	-.23	073	30.27	.33
<u>Insoluble Phosphate</u>			<u>Avg</u>			<u>Dir Available Phosph</u>			351	29.98	-.65	<u>Avg</u>		
<u>Grav Quimociac</u>			409	29.81	-.86	<u>Spectrometric</u>			296	30.08	-1.06	040	30.19	-.16
090	0.11	-.71				055	29.36	.71	231	29.90	-1.16	027	30.17	-.19
			<u>Meth: 040.XX PCT</u>			<u>Meth: 041.40 PCT</u>			028	30.00	-1.25	105	30.19	-.19
<u>Meth: 030.20 PCT</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			105	29.94	-1.60	029	30.18	-.20
<u>Insoluble Phosphate</u>			090	30.42	.56	<u>Automated</u>			<u>Meth: 041.99 PCT</u>			177	30.14	-.24
<u>Spectrometric</u>			096	30.34	.53	072	32.32 S	13.75	<u>Dir Available Phosph</u>			177	30.12	-.30
372	0.38	.00	322	30.13	.46	131	30.52	1.03	<u>Other</u>			034	30.14	-.34
			409	29.81	.35	029	30.42	.43				057	30.08	-.41
<u>Meth: 030.40 PCT</u>			<u>Avg</u>			025	30.40	.15				105	30.06	-.47
<u>Insoluble Phosphate</u>			372	23.24	-1.89	<u>Avg</u>						102	30.04	-.55
<u>Automated</u>												351	29.98	-.71
409	0.22	.87	<u>Meth: 041.10 PCT</u>			027	30.17	-1.49				377	29.95	-.78
Avg	0.14		<u>Dir Available Phosph</u>			095	29.84 R	-5.40				296	30.08	-.85
096	0.06	-.87	<u>Grav Quimociac</u>			<u>Meth: 041.50 PCT</u>			<u>Meth: 041.XX PCT</u>			300	29.88	-.95
			009	30.88	1.59	<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			452	29.87	-1.00
<u>Meth: 030.XX PCT</u>			057	30.69	1.26	<u>ICP</u>						360	29.86	-1.03
<u>Insoluble Phosphate</u>			055	30.76	1.25	325	30.85 s	3.60				072	32.32 s	5.85
372	0.38	1.42	254	30.65	.95	291	30.42	1.79				325	30.85	2.00
409	0.22	.22	131	30.67	.87	007	30.29	1.39				009	30.88	1.82
Avg	0.19		072	30.63	.75	377	29.95	.27				055	30.76	1.53
090	0.11	-.64	296	30.43	.55	<u>Avg</u>						057	30.69	1.46
096	0.06	-1.01	086	30.51	.32	360	29.86	-.32				254	30.65	1.25
			211	30.48	.23	354	29.84	-.33				131	30.67	1.23
<u>Meth: 040.10 PCT</u>			<u>Avg</u>									072	30.63	1.13
<u>InDir Available Phos</u>			185	30.39	-.09	<u>Meth: 041.50 PCT</u>			<u>Meth: 041.XX PCT</u>			131	30.52	.83
<u>Grav Quim</u>			136	30.37	-.17	<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			086	30.51	.79
090	30.42	.87	105	30.19	-.80	<u>ICP</u>						296	30.43	.73
Avg	30.27		040	30.19	-.80	393	29.68	-.92				211	30.48	.72
322	30.13	-.87	029	30.18	-.83	009	29.62	-1.39				397	30.46	.66
			177	30.12	-1.02							291	30.42	.55

* 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: 048.20 PCT			Meth: 050.30 PCT			Meth: 050.51 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT		
Water Soluble Phosph			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>Spectrometric</u>			<u>AA (Oxalate)</u>			<u>ICP (Citrate)</u>			<u>Other</u>					
393	20.34	1.03	073	5.91	1.68	009	5.74	.18	330	6.35	2.05	368	5.81	.87
096	19.86	.21	262	5.67	.92	Avg	5.70		027	5.94	.77	416	5.81	.86
Avg	19.78		450	5.57 R	.88	377	5.59	-.50	072	5.89	.63	131	5.79	.79
372	19.13	-1.18	351	5.51	.43	452	5.43	-1.20	368	5.81	.39	325	5.77	.72
			136	5.48	.36	393	5.31	-1.75	325	5.77	.27	177	5.77	.71
			Avg	5.36					177	5.77	.25	035	5.76	.70
Meth: 050.00 PCT			Meth: 050.31 PCT			Meth: 050.60 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>STPB Oxalate</u>			<u>AA (Citrate)</u>			<u>Flame (Oxalate)</u>			<u>Other</u>					
405	30.03 s	99.06	040	5.27	-.30	105	5.65	1.90	232	5.70	.10	360	5.75	.66
090	6.33	2.52	234	4.95	-1.26	443	5.43	.58	Avg	5.69		043	5.73	.61
114	5.92	.92	185	4.80	-1.69	086	5.38	.54	247	5.67	-.12	009	5.74	.61
049	5.82	.43				Avg	5.33		105	5.59	-.31	137	5.74	.61
416	5.81	.41	Meth: 050.50 PCT			Meth: 050.61 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT		
131	5.79	.38	Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
043	5.73	.31	<u>AA (Citrate)</u>			<u>Flame (Citrate)</u>			<u>Other</u>					
055	5.77	.23	254	5.12	.71	406	5.22	-.71	042	5.50	-.56	324	5.70	.51
Avg	5.71					309	5.15	-1.13	042	5.50 R	-1.06	232	5.70	.48
029	5.61	-.45	Meth: 050.51 PCT			Meth: 050.61 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT		
258	5.58	-.65	Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
231	5.51	-.84	<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>			<u>Other</u>					
057	5.50	-.87	444	5.90	1.86	034	5.92	1.39	405	30.03 s	87.21	029	5.61	.23
397	5.47	-1.03	324	5.70	.75	028	5.88	1.24	330	6.35 A	2.83	377	5.59	.13
009	5.53 R	-1.22	292	5.69	.58	035	5.76	.69	090	6.33	2.70	105	5.59	.10
211	5.41	-1.24	Avg	5.59		456	5.75	.64	444	5.86 R	1.51	095	5.59	.08
072	5.53 R	-1.25	354	5.53	-.44	Avg	5.63		027	5.94	1.32	Avg	5.57	
102	4.73 s	-4.03	390	5.52	-.45	095	5.59	-.21	073	5.91	1.29	354	5.53	-.23
230	2.76 s	-12.27	420	5.50	-.51	057	5.57	-.36	114	5.92	1.28	351	5.51	-.23
			106	5.45	-.83	025	5.43	-.96	034	5.92	1.23	390	5.52	-.23
			426	5.42	-1.35	029	5.41	-1.04	444	5.90	1.20	402	5.50	-.25
Meth: 050.10 PCT			Meth: 050.51 PCT			Meth: 050.61 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>STPB Citrate</u>			<u>ICP (Citrate)</u>			<u>Flame (Citrate)</u>			<u>Other</u>					
444	5.86 R	1.82	023	5.90	.89	105	5.55 R	-1.15	023	5.90	1.17	420	5.50	-.25
300	5.76	1.11	007	5.89	.83	131	5.34	-1.39	072	5.89	1.15	420	5.50	-.25
372	5.45	.18	291	5.88	.80	041	2.65 s	-14.27	007	5.89	1.13	231	5.51	-.28
Avg	5.45		389	5.88	.78				028	5.88	1.12	057	5.50	-.31
322	5.13	-1.12							291	5.88	1.11	136	5.48	-.34
									389	5.88	1.09	106	5.45	-.45
									049	5.82	.87	397	5.47	-.46
												372	5.45	-.46
												452	5.43	-.50

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.XX PCT			Meth: 060.00 PCT			Meth: 101.30 PCT			Meth: 121.30 PCT			Meth: 144.01 PCT		
<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>		
443	5.43	-.50	<u>Vacuum Oven</u>			<u>ICP</u>			<u>ICP</u>			<u>Gravimetric</u>		
025	5.43	-.52	Avg	2.08		035	3.18	-.42	393	0.75	1.95	105	6.66	.29
029	5.41	-.58	456	1.80	-.48	433	3.13	-.64	389	0.70	.92	Avg	6.64	
211	5.41	-.59	007	1.75	-.56	390	3.18	-.85	232	0.68	.73	231	6.56	-.54
086	5.38	-.74	416	1.38	-1.17	027	2.77	-2.48	102	0.66	.14	117	6.53	-.66
369	5.36	-.75	Meth: 060.99 PCT			Meth: 101.99 PCT			Avg			096	0.65	.00
450	5.57 R	-.77	<u>Free Water</u>			<u>Acid Soluble Calcium</u>			247			0.65	-.07	
426	5.42	-.78	<u>Other</u>			<u>Other</u>			131			0.64	-.18	
105	5.55 R	-.81	443	5.43	.71	042	2.35 S	.00	420	0.64	-.19	073	6.50	-1.27
428	5.34	-.83	Meth: 060.XX PCT			Meth: 101.XX PCT			035			0.64	-.29	
131	5.34	-.84	<u>Free Water</u>			<u>Acid Soluble Calcium</u>			065			0.63	-.45	
009	5.53 R	-.85	443	5.43	1.97	393	4.38 s	5.71	433	0.63	-.51	Meth: 144.02 PCT		
072	5.53 R	-.90	405	2.93	.21	450	3.58	1.68	057	0.63 R	-.55	<u>Sulfur</u>		
393	5.31	-.95	Avg	2.64		232	3.53	1.44	009	0.62	-.57	<u>Gravimetric</u>		
055	5.29	-1.02	096	2.57	-.05	009	3.30 R	.87	390	0.62	-.73	292	7.15	-.71
040	5.27	-1.09	105	2.17 R	-.35	131	3.38	.69	450	0.62	-.77	Meth: 144.99 PCT		
042	5.50 R	-1.10	456	1.80	-.60	057	3.35	.55	106	0.61	-.81	<u>Sulfur</u>		
200	5.23	-1.21	007	1.75	-.63	389	3.30	.22	027	0.57	-1.64	<u>Other</u>		
406	5.22	-1.27	416	1.38	-.89	106	3.26	.21	372	0.37 s	-5.78	377	10.85 s	12.68
255	5.21 X	-1.32	Meth: 101.30 PCT			247			3.30	.20	Meth: 144.01 PCT			
309	5.15	-1.51	<u>Acid Soluble Calcium</u>			Avg			3.26		<u>Sulfur</u>			
322	5.13	-1.57	<u>ICP</u>			041			3.23	-.24	<u>Gravimetric</u>			
254	5.12	-1.62	393	4.38 s	5.71	102	3.22	-.28	055	6.81 R	1.50	291	7.18	1.68
234	4.95	-2.23	450	3.58	1.68	420	3.20	-.31	043	6.87	1.43	157	7.10	1.43
457	4.92	-2.34	232	3.53	1.44	035	3.18	-.42	029	6.85	1.29	049	7.03 R	1.43
185	4.80	-2.75	009	3.30 R	.87	433	3.13	-.64	262	6.83	1.16	300	7.09	1.42
102	4.73 A	-3.04	131	3.38	.69	390	3.18	-.85	324	6.82	1.10	232	7.07	1.37
371	4.34 s	-4.41	057	3.35	.55	027	2.77	-2.48	057	6.77	.76	131	7.03	1.23
455	4.26 s	-4.67	389	3.30	.22	065	2.80 s	-2.83	405	6.74	.75	137	6.77	.46
230	2.76 s	-10.25	106	3.26	.21	042	2.35 s	-4.63	040	6.65	.66	177	6.71	.33
041	2.65 s	-10.41	247	3.30	.20	Meth: 121.30 PCT			102	6.65	.58	136	6.71	.26
Meth: 060.00 PCT			Avg			Meth: 121.30 PCT			028	6.73	.52	389	6.65	.12
<u>Free Water</u>			041			<u>Acid Soluble Magnesi</u>			397	6.68	.50	Avg	6.62	
<u>Vacuum Oven</u>			102			<u>ICP</u>			095	6.69	.43	452	6.60	-.10
405	2.93	1.40	420	3.20	-.31	041	0.77	2.43	296	6.69	.43	037	6.61	-.14
096	2.57	.80							372	6.71	.40	393	6.59	-.14
105	2.17 R	.27										360	6.55	-.22
												368	6.54	-.24
												457	6.53	-.28

* 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: 144.99 PCT			Meth: 144.XX PCT			Meth: 151.30 PPM			Meth: 165.00 PCT			Meth: 181.30 PPM		
Sulfur			Sulfur			Arsenic			Acid Soluble Boron			Cadmium		
<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>Spectrometric</u>			<u>ICP</u>		
351	6.59	-.49	389	6.65	-.06	372	12.30	2.08	393	0.022 X	-.71	368	6.95	.89
354	6.39	-.78	105	6.66	-.18	065	8.99 R	1.03				232	6.85	.82
027	6.35	-.80	452	6.60	-.25	247	8.85	.79	Meth: 165.99 PCT			065	6.72	.74
023	6.27	-1.05	037	6.61	-.27	037	7.63	.38	Acid Soluble Boron			102	6.68	.66
450	6.25	-1.10	393	6.59	-.32	037	7.63	.38	<u>Other</u>			247	6.55	.56
009	6.55 R	-1.15	102	6.65	-.38	450	7.00	.09	444	0.054 R	3.49	296	6.45	.47
230	6.13	-1.47	231	6.56	-.43	Avg	6.75		009	0.042	2.11	009	6.26	.33
390	5.90	-2.15	040	6.65	-.44	393	6.47	-.11	Avg	0.025		035	6.09	.17
035	5.62 S	-3.00	360	6.55	-.45	009	6.35	-.44	433	0.024	-.06	393	6.02	.13
255	5.44 S	-3.51	368	6.54	-.47	405	4.50	-.86	232	0.021	-.45	Avg	5.89	
			114	6.55	-.51	230	4.16	-.97	409	0.020	-.51	450	5.48 R	-.47
			117	6.53	-.51	102	3.50	-1.24	106	0.020	-.55	037	5.29	-.59
			457	6.53	-.52	Meth: 151.99 PPM			389	0.020	-.55	372	4.50	-1.16
Meth: 144.XX PCT			371	6.49	-.69	Arsenic			Meth: 165.XX PCT			230	3.66	-1.87
Sulfur			351	6.59	-.70	<u>Other</u>			Acid Soluble Boron			452	3.42	-2.07
377	10.85 s	16.83	200	6.44	-.87	409	6.85	.71	444	0.054 R	3.82	Meth: 181.99 PPM		
291	7.18	2.10	073	6.50	-.90	Meth: 151.XX PPM			009	0.042	2.32	Cadmium		
292	7.15	1.99	444	6.37	-1.17	<u>Arsenic</u>			Avg	0.024		<u>Other</u>		
049	7.03 R	1.78	354	6.39	-1.18	368	23.90 s	7.12	433	0.024	-.03	409	6.85	-.71
157	7.10	1.76	027	6.35	-1.23	372	12.30	2.30	393	0.022 X	-.27	Meth: 181.XX PPM		
300	7.09	1.75	457	6.29	-1.48	065	8.99 R	1.13	232	0.021	-.44	Cadmium		
232	7.07	1.68	023	6.27	-1.55	247	8.85	.86	409	0.020	-.51	<u>Other</u>		
131	7.03	1.49	009	6.55 R	-1.58	037	7.63	.41	389	0.020	-.55	409	6.85	-.71
055	6.81 R	.95	450	6.25	-1.63	450	7.00	.09	106	0.020	-.55	Meth: 181.00 PPM		
043	6.87	.88	230	6.13	-2.13	136	6.90	.07	Cadmium			457	7.85	1.40
029	6.85	.79	390	5.90 A	-3.04	409	6.85	.03	Atomic Absorption			405	7.00	.70
262	6.83	.70	035	5.62 s	-4.17	Avg	6.77		457	7.85	.87	368	6.95	.66
324	6.82	.66	255	5.44 s	-4.85	393	6.47	-.13	Avg	7.22		409	6.85	.57
137	6.77	.46	Meth: 151.00 PPM			009	6.35	-.49	405	4.50	-.97	065	6.72	.52
405	6.74	.44	Arsenic			405	4.50	-.97	230	4.16	-1.09	102	6.68	.44
057	6.77	.44	<u>Atomic Absorption</u>			230	4.16	-1.09	136	6.60	-.87	136	6.60	.38
177	6.71	.32	136	6.90	-.71	102	3.50	-1.39	Meth: 181.30 PPM			247	6.55	.33
397	6.68	.31	Meth: 151.30 PPM			Cadmium			Cadmium			296	6.45	.25
028	6.73	.28	Arsenic			<u>ICP</u>			ICP			009	6.26	.14
095	6.69	.25	ICP			368 23.90 s 6.41			405 7.00 .93			Avg	6.15	
296	6.69	.24	368 23.90 s 6.41									035	6.09	-.06
372	6.71	.20										393	6.02	-.13
136	6.71	.20												
Avg	6.66													

* 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
<u>Meth: 181.XX PPM</u>			<u>Meth: 191.XX PPM</u>			<u>Meth: 202.30 PPM</u>			<u>Meth: 221.00 PCT</u>			<u>Meth: 221.99 PCT</u>		
<u>Cadmium</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>		
450	5.48 R	-.64	035	85.05	1.22	ICP			<u>Atomic Absorption</u>			<u>Other</u>		
037	5.29 R	-.78	405	85.50	1.17	393	2.58	-.32	043	0.0059	.86	409	0.0048	-.71
372	4.50	-1.36	450	84.00	1.00	232	2.50	-.42	136	0.0058	.65			
230	3.66	-2.05	368	83.55	.91	057	2.59	-.45	028	0.0055	.45	<u>Meth: 221.XX PCT</u>		
452	3.42	-2.25	452	83.42	.90	296	2.40	-.55	Avg	0.0053		<u>Acid Soluble Copper</u>		
			037	78.41	.61	372	1.60	-1.61	457	0.0050	-.38	102	0.0100 s	10.38
<u>Meth: 190.99 PCT</u>			247	81.00	.59	230	1.42	-1.85	428	0.0043	-1.73	262	0.0100 s	10.38
<u>Water Soluble Chlori</u>			390	78.30	.56	<u>Meth: 202.99 PPM</u>			<u>Meth: 221.30 PCT</u>			354	0.0075 s	4.88
<u>Other</u>			065	78.05	.25	<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			095	0.0064	2.23
009	4.31	-.71	009	77.80	.18	<u>Other</u>			<u>ICP</u>			402	0.0060	1.36
			Avg	76.61		409	2.73	.71	102	0.0100 s	10.52	043	0.0059	1.32
<u>Meth: 191.30 PPM</u>			102	75.69	-.14	<u>Acid Soluble Cobalt</u>			354	0.0075 s	4.95	037	0.0058	.98
<u>Chromium</u>			393	72.37	-.56	452	33.13 s	41.90	095	0.0064	2.27	136	0.0058	.94
<u>ICP</u>			232	72.35	-.60	037	7.25 s	6.16	402	0.0060	1.40	433	0.0058	.90
035	85.05	1.16	409	70.80	-.76	037	4.21	1.95	028	0.0058	1.00	247	0.0057	.67
405	85.50	1.11	096	70.50	-.87	136	4.21	1.95	028	0.0055	.66	028	0.0055	.66
450	84.00	.95	027	68.87	-1.03	037	3.49	.95	433	0.0058	.93	452	0.0056	.46
368	83.55	.85	372	56.75	-2.61	035	3.20 R	.78	247	0.0057	.69	035	0.0055	.33
452	83.42	.85	230	42.60 s	-4.46	450	3.20 R	.78	452	0.0056	.48	Avg	0.0054	
037	78.41	.59				102	3.32	.73	035	0.0055	.34	324	0.0053	-.21
247	81.00	.54	<u>Meth: 202.00 PPM</u>			368	3.30	.71	Avg	0.0054		065	0.0053	-.33
390	78.30	.53	<u>Acid Soluble Cobalt</u>			009	3.22	.58	324	0.0053	-.20	232	0.0052	-.34
065	78.05	.21	<u>AA</u>			065	3.09	.40	065	0.0053	-.32	450	0.0052	-.49
009	77.80	.14	136	7.25 S	.00	065	3.09	.40	232	0.0052	-.33	057	0.0052	-.50
Avg	76.97					Avg	2.80		450	0.0052	-.49	368	0.0052	-.55
102	75.69	-.18	<u>Meth: 202.30 PPM</u>			247	2.75	-.10	057	0.0052	-.49	393	0.0051	-.59
393	72.37	-.60	<u>Acid Soluble Cobalt</u>			409	2.73	-.13	368	0.0052	-.54	389	0.0052	-.65
232	72.35	-.64	<u>ICP</u>			393	2.58	-.33	393	0.0051	-.58	009	0.0051	-.67
096	70.50	-.90	452	33.13 s	40.34	232	2.50	-.43	389	0.0052	-.65	457	0.0050	-.89
027	68.87	-1.06	037	4.21	1.87	057	2.59	-.46	009	0.0051	-.66	372	0.0050	-.89
372	56.75	-2.62	035	3.49	.91	296	2.40	-.57	372	0.0050	-.88	409	0.0048	-1.24
230	42.60 s	-4.46	450	3.20 R	.75	372	1.60	-1.66	426	0.0045	-2.17	426	0.0045	-2.16
			102	3.32	.70	230	1.42	-1.91	041	0.0030 s	-5.45	428	0.0043 R	-3.21
<u>Meth: 191.99 PPM</u>			368	3.30	.67	<u>Meth: 221.00 PCT</u>			230	0.0030 s	-5.45	041	0.0030 s	-5.40
<u>Chromium</u>			009	3.22	.55	<u>Acid Soluble Copper</u>			377	0.0013 s	-9.28	230	0.0030 s	-5.40
<u>Other</u>			065	3.09	.38	<u>Atomic Absorption</u>						377	0.0013 s	-9.18
409	70.80	.71	Avg	2.80		262	0.0100 S	6.01						
			247	2.75	-.10									

* 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: 241.30 PCT Acid Soluble Iron			Meth: 251.30 PPM Lead			Meth: 261.30 PCT Acid Soluble Manganese			Meth: 261.XX PCT Acid Soluble Manganese			Meth: 289.30 PPM Molybdenum		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			372 0.060 s -5.14			<u>ICP</u>		
106	1.58	1.94	102	7.76	-.38	433	0.081	.04	444	0.060 s	-5.86	372	6.20	-1.57
065	1.42 R	1.40	009	7.05	-.52	Avg	0.081		027	0.028 s	-11.75	230	4.98	-2.33
035	1.51	1.25	372	6.40	-.65	057	0.081	-.15	Meth: 281.00 PPM Mercury			Meth: 289.99 PPM Molybdenum		
389	1.48	.97	065	5.97 R	-.78	106	0.080	-.26	<u>Atomic Absorption</u>			<u>Other</u>		
131	1.46	.80	230	4.88	-.97	035	0.081	-.28	230	0.03	.71	409	9.31	.71
102	1.45	.66	Meth: 251.99 PPM Lead			009	0.080	-.29	Meth: 281.99 PPM Mercury			Meth: 289.XX PPM Molybdenum		
247	1.44	.56	<u>Other</u>			232	0.079	-.45	<u>Other</u>					
057	1.42	.50	409	9.13	.71	065	0.080	-.45	Meth: 281.XX PPM Mercury			Meth: 289.30 PPM Molybdenum		
041	1.40	.38	Meth: 251.XX PPM Lead			096	0.077	-.98	009	0.04	.71	452	17.96 s	5.92
096	1.39	.14	452	28.05	2.42	393	0.072	-1.94	Meth: 281.XX PPM Mercury			035	11.10	1.51
Avg	1.38		393	22.93	1.67	372	0.060 s	-5.19	<u>Other</u>			065	10.53	1.16
009	1.38	-.16	136	17.50	.87	444	0.060 s	-5.91	Meth: 281.99 PPM Mercury			393	10.21 X	.94
232	1.34	-.46	Avg	11.58		027	0.028 s	-11.80	009	0.04	.89	037	9.64	.63
444	1.31	-.75	296	10.40	-.18	Meth: 261.99 PCT Acid Soluble Manganese			Meth: 281.XX PPM Mercury			450	9.50	.58
390	1.33	-.78	450	10.00	-.23	<u>Other</u>			Avg 0.04			247	9.50	.48
450	1.30	-.82	368	10.00	-.23	409	0.077	.71	230 0.03 -.84			232	9.35	.45
433	1.30	-.83	409	9.13	-.36	Meth: 261.XX PCT Acid Soluble Manganese			Meth: 289.30 PPM Molybdenum			057	8.90	.40
393	1.22	-1.59	232	8.45	-.46	041	0.091	2.15	<u>ICP</u>			409	9.31	.36
027	1.20	-1.78	405	8.00	-.53	389	0.088	1.65	452	17.96 s	5.77	Avg	8.75	
372	0.73 s	-6.45	102	7.76	-.56	102	0.085 R	1.45	035	11.10	1.49	368	8.65	-.07
Meth: 251.00 PPM Lead			009	7.05	-.67	131	0.083	.49	065	10.53	1.15	433	8.50	-.17
<u>Atomic Absorption</u>			372	6.40	-.76	247	0.083	.44	393	10.21 X	.94	296	7.95	-.52
136	17.50	.71	065	5.97 R	-.84	433	0.081	.10	037	9.64	.63	102	7.89	-.57
Meth: 251.30 PPM Lead			230	4.88	-.99	Avg	0.081		450	9.50	.58	009	7.85	-.58
<u>ICP</u>			Meth: 261.30 PCT Acid Soluble Manganese			057	0.081	-.10	247	9.50	.49	372	6.20	-1.64
452	28.05 s	3.79	041	0.091	2.08	106	0.080	-.19	232	9.35	.45	230	4.98	-2.42
393	22.93	2.74	389	0.088	1.58	009	0.080	-.22	057	8.90	.39	Meth: 291.00 PPM Nickel		
296	10.40	.17	102	0.085 R	1.40	035	0.081	-.27	Avg 8.72			<u>Atomic Absorption</u>		
368	10.00	.09	131	0.083	.42	232	0.079	-.39	368	8.65	-.05	136 18.50 .71		
450	10.00	.08	247	0.083	.37	065	0.080	-.41	433	8.50	-.14			
Avg	9.59					096	0.077	-.91	296	7.95	-.49			
232	8.45	-.24				409	0.077	-.94	102	7.89	-.53			
405	8.00	-.33				393	0.072	-1.87	009	7.85	-.54			

* 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: 291.30 PPM Nickel			Meth: 291.XX PPM Nickel			Meth: 321.00 PCT Acid Soluble Zinc			Meth: 321.30 PCT Acid Soluble Zinc			Meth: 321.XX PCT Acid Soluble Zinc		
<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>		
035	15.05	.99	393	0.00 s	-4.81	200	2.565 s	4.77	023	2.202	.22	057	2.396 R	1.44
450	15.00	.97	Meth: 301.30 PPM Selenium			457	2.290	1.43	433	2.216	.13	389	2.410	1.25
247	14.50	.79	<u>ICP</u>			028	2.280	1.24	035	2.210	.11	330	2.400	1.19
037	13.98	.64	368	7.50 S	17.98	029	2.245	1.04	450	2.205	.10	457	2.290	.58
009	13.65	.45	450	0.50	1.47	177	2.248	.85	Avg	2.194		117	2.290	.53
102	13.38	.31	Avg	0.17		055	2.215	.80	291	2.185	-.06	452	2.285	.49
065	13.18	.28	372	0.00	-.41	397	2.200	.55	247	2.190	-.06	028	2.280	.48
368	13.30	.27	393	0.00 X	-.41	258	2.210	.43	131	2.184	-.09	009	2.205	.46
Avg	12.64		Meth: 301.99 PPM Selenium			351	2.192	.15	409	2.150	-.26	360	2.270	.41
296	12.40	-.19	296	0.52	.71	Avg	2.182		402	2.140	-.33	300	2.270	.40
232	11.45	-.49	<u>Other</u>			040	2.158	-.37	368	2.123	-.41	393	2.270	.40
372	8.75	-1.59	296	0.52	.71	371	2.155	-.38	095	2.131	-.43	231	2.240	.38
230	7.04	-2.30	Meth: 301.XX PPM Selenium			296	2.140	-.54	444	2.095	-.67	324	2.260	.36
393	0.00 s	-5.18	368	7.50 s	27.06	043	2.112	-.88	255	2.024 X	-.97	037	2.230	.34
Meth: 291.99 PPM Nickel			450	0.50 R	2.20	428	2.069	-1.40	390	2.010	-1.10	055	2.215	.34
<u>Other</u>			296	0.52	1.29	262	2.035	-1.91	027	1.946	-1.41	177	2.248	.29
409	13.85	-.71	Avg	0.17		Meth: 321.30 PCT Acid Soluble Zinc			041	1.925	-1.53	354	2.240	.22
Meth: 291.XX PPM Nickel			372	0.00	-.64	<u>ICP</u>			426	1.902	-1.67	258	2.210	.13
136	18.50	1.97	393	0.00 X	-.64	377	7.700 s	31.25	114	1.900	-1.67	450	2.205	.09
035	15.05	.70	Meth: 311.99 PCT Sodium			292	2.585	2.22	232	1.864	-1.88	433	2.216	.08
450	15.00	.68	<u>Other</u>			106	2.555	2.06	230	1.410 s	-4.45	035	2.210	.07
247	14.50	.53	247	0.35	1.13	102	2.500	1.74	065	1.228 s	-5.49	Avg	2.204	
037	13.98	.43	232	0.32	.40	057	2.396 R	1.39	372	0.840 s	-7.69	351	2.192	-.08
409	13.85	.26	009	0.32	.29	389	2.410	1.23	Meth: 321.99 PCT Acid Soluble Zinc			247	2.190	-.10
009	13.65	.25	102	0.32	.18	330	2.400	1.17	<u>Other</u>			291	2.185	-.12
065	13.18	.16	Avg	0.31		117	2.290	.55	137	2.470	.00	131	2.184	-.14
102	13.38	.10	035	0.27	-1.72	452	2.285	.51	Meth: 321.XX PCT Acid Soluble Zinc			023	2.202	-.23
368	13.30	.06	Meth: 321.00 PCT Acid Soluble Zinc			360	2.270	.43	377	7.700 s	33.42	397	2.200	-.24
Avg	13.14		393	2.270	.43	009	2.205	.43	292	2.585	2.32	040	2.158	-.30
296	12.40	-.31	300	2.270	.43	397	2.270	.43	200	2.565	2.20	371	2.155	-.31
232	11.45	-.62	324	2.260	.39	300	2.270	.43	106	2.555	2.15	409	2.150	-.33
372	8.75	-1.61	231	2.240	.38	324	2.260	.39	106	2.555	2.15	296	2.140	-.39
230	7.04	-2.23	037	2.230	.35	231	2.240	.38	102	2.500	1.80	402	2.140	-.41
			354	2.240	.26	037	2.230	.35	137	2.470	1.62	368	2.123	-.49
						354	2.240	.26				095	2.131	-.51
												043	2.112	-.56
												444	2.095	-.77

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

Laboratory Averages & Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
Meth: 321.XX PCT											
<u>Acid Soluble Zinc</u>											
428	2.069	-.82									
262	2.035	-1.06									
255	2.024 X	-1.10									
390	2.010	-1.23									
027	1.946	-1.57									
041	1.925	-1.70									
426	1.902	-1.84									
114	1.900	-1.85									
232	1.864	-2.07									
230	1.410 s	-4.83									
065	1.228 s	-5.94									
372	0.840 s	-8.29									

* 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	9	- 0.07	0.99	0.14	050.99	17	- 0.52	1.65	0.27
001.99	13	- 0.21	1.07	0.21	050.XX	75	0.75	10.33	0.40
001.XX	22	- 0.13	0.99	0.17	060.00	6	0.02	0.95	0.10
002.99	4	0.00	1.08	0.00	060.XX	7	- 0.05	0.97	0.04
002.XX	4	0.00	1.08	0.00	101.30	17	0.21	1.76	0.51
005.XX	2	0.00	1.22	0.04	101.XX	18	- 0.06	2.06	0.49
009.10	5	0.00	1.04	0.19	121.30	19	- 0.32	1.63	0.18
009.XX	6	0.00	1.04	0.15	121.XX	19	- 0.32	1.63	0.18
010.11	8	- 0.66	2.08	0.28	144.01	23	0.04	0.95	0.42
010.12	3	0.00	1.12	0.05	144.99	27	0.27	2.79	0.33
010.60	58	0.59	4.97	0.52	144.XX	50	0.15	2.76	0.38
010.99	4	0.00	1.04	0.26	151.30	11	0.66	2.13	0.24
010.XX	69	0.44	4.00	0.51	151.XX	13	0.62	2.17	0.25
020.10	6	0.00	1.03	0.19	165.99	7	0.497	1.625	0.136
020.20	16	- 0.27	3.51	0.16	165.XX	8	0.475	1.652	0.138
020.40	6	0.00	0.96	0.38	181.00	2	0.00	1.21	0.13
020.50	10	- 1.10	2.09	0.72	181.30	15	- 0.02	0.98	0.14
020.99	4	6.25	12.53	1.20	181.XX	18	- 0.07	0.97	0.13
020.XX	41	0.02	3.83	0.51	191.30	17	- 0.26	1.44	0.26
030.40	2	0.00	1.22	0.04	191.XX	18	- 0.25	1.42	0.26
030.XX	4	0.00	1.08	0.03	202.30	15	2.72	10.45	0.31
040.10	2	0.00	1.22	0.02	202.XX	17	2.86	10.21	0.31
040.40	2	0.00	1.16	0.28	221.00	6	1.0020	2.5758	0.4913
040.XX	5	0.00	1.06	0.02	221.30	23	- 0.210	3.6572	0.3540
041.10	19	- 4.63	19.84	0.48	221.XX	30	0.0982	3.7466	0.4938
041.40	6	1.65	6.15	1.63	241.30	19	- 0.32	1.76	0.38
041.50	10	0.34	1.40	0.53	241.XX	19	- 0.32	1.76	0.38
041.60	11	0.00	0.69	0.72	251.30	12	0.25	1.47	0.07
041.99	3	- 55.80	70.28	23.09	251.XX	14	- 0.06	1.00	0.05
041.XX	40	- 2.18	11.15	0.97	261.30	17	- 1.203	3.284	1.042
048.20	3	0.00	1.11	0.08	261.XX	18	- 1.122	3.192	1.015
048.XX	3	0.00	1.11	0.08	281.XX	2	0.000	1.140	0.316
050.00	18	4.53	23.79	0.69	289.30	16	0.36	1.74	0.18
050.10	4	0.36	1.16	0.55	289.XX	17	0.35	1.73	0.18
050.30	10	0.06	0.98	0.24	291.30	13	- 0.40	1.73	0.14
050.50	8	0.00	0.94	0.40	291.XX	15	- 0.32	1.58	0.13
050.51	8	0.00	1.03	0.11	301.30	4	4.49	9.00	0.71
050.60	7	0.00	1.01	0.22	301.XX	5	5.65	11.99	0.96
050.61	11	- 1.33	4.39	0.36	311.99	5	0.00	1.04	0.17

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.XX	5	0.00	1.04	0.17					
321.00	15	0.317	1.526	0.377					
321.30	39	0.379	5.414	0.201					
321.XX	54	0.278	4.932	0.205					