

- Pass 1 Results for 59 Labs - - Pass 2 Results for 59 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	1	0.02	0.01	0.01	1	0.02	0.01	0.01
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	0.11	0.11	0.16	1	0.11	0.11	0.16
Total Nitrogen, Salicylic	955.04D	010.12	1	0.08	0.01	0.01	1	0.08	0.01	0.01
Total Nitrogen, Combustion		010.60	3	6.07	9.36	0.02	3	6.07	9.36	0.02
Method Group 010.XX PCT			4	4.57	8.38	0.02	4	4.57	8.38	0.02
Total Phosphate, Spectrometric	958.01	020.20	1	0.22	0.01	0.01	1	0.22	0.01	0.01
Total Phosphate, Alka Quimociac	969.02	020.30	1	1.43	0.00	0.00	1	1.43	0.00	0.00
Total Phosphate, ICP		020.50	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 020.XX PCT			3	0.55	0.69	0.00	3	0.55	0.69	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	0.19	0.01	0.01	1	0.19	0.01	0.01
Soluble Potash, ICP (Oxalate)		050.50	2	0.20	0.06	0.02	2	0.20	0.06	0.02
Soluble Potash, ICP (Citrate)		050.51	1	0.21	0.01	0.02	1	0.21	0.01	0.02
Method Group 050.XX PCT			3	0.20	0.05	0.02	3	0.20	0.05	0.02
Acid Soluble Calcium, AA	945.04	101.00	1	3.17	0.15	0.21	1	3.17	0.15	0.21
Acid Soluble Calcium, ICP		101.30	14	3.26	0.17	0.04	14	3.26	0.17	0.04
Acid Soluble Calcium, Other		101.99	2	3.16	0.09	0.05	2	3.16	0.09	0.05
Method Group 101.XX PCT			17	3.24	0.16	0.05	15	3.22	0.11	0.04
Acid Soluble Magnesium, AA	984.01	121.00	1	0.38	0.02	0.03	1	0.38	0.02	0.03
Acid Soluble Magnesium, ICP		121.30	15	0.37	0.04	0.01	15	0.37	0.04	0.01
Method Group 121.XX PCT			16	0.37	0.04	0.01	16	0.37	0.04	0.01
Sulfur, Gravimetric	980.02a	144.01	1	0.20	0.02	0.03	1	0.20	0.02	0.03
Sulfur, Other		144.99	9	0.18	0.02	0.01	9	0.18	0.02	0.01
Method Group 144.XX PCT			10	0.18	0.02	0.02	10	0.18	0.02	0.02
Arsenic, Atomic Absorption		151.00	1	33.00	1.41	2.00	1	33.00	1.41	2.00
Arsenic, ICP		151.30	5	32.93	2.39	1.60	5	32.93	2.39	1.60
Arsenic, Other		151.99	1	39.00	4.24	6.00	1	39.00	4.24	6.00
Method Group 151.XX PPM			7	33.80	3.22	2.28	7	33.80	3.22	2.28
Acid Soluble Boron, Spectrometric	982.01	165.00	9	3.620	0.268	0.069	9	3.620	0.268	0.069
Acid Soluble Boron, Other		165.99	21	3.716	0.195	0.084	21	3.716	0.195	0.084
Method Group 165.XX PCT			30	3.687	0.222	0.079	29	3.690	0.224	0.073
Water Soluble Boron, AA	52.950	171.00	1	3.570	0.141	0.200	1	3.570	0.141	0.200
Water Soluble Boron, Spectrometric	982.01	171.10	1	2.485	0.064	0.090	1	2.485	0.064	0.090
Water Soluble Boron, Titrimetric	949.03	171.70	1	3.650	0.014	0.020	1	3.650	0.014	0.020
Water Soluble Boron, Other		171.99	1	3.310	0.014	0.020	1	3.310	0.014	0.020
Method Group 171.XX PCT			4	3.254	0.497	0.082	4	3.254	0.497	0.082
Cadmium, Atomic Absorption		181.00	2	1.70	0.10	0.17	2	1.70	0.10	0.17
Cadmium, ICP		181.30	9	5.34	3.34	1.09	8	4.91	3.08	0.43
Method Group 181.XX PPM			11	4.67	3.33	0.92	10	4.26	3.04	0.38
Water Soluble Chlorine, Titrimetric	928.02	190.00	1	1.21	0.01	0.01	1	1.21	0.01	0.01

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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
Water Soluble Chlorine, Other		190.99	2	0.87	0.03	0.01	2	0.87	0.03	0.01
Method Group 190.XX PCT			3	0.98	0.18	0.01	3	0.98	0.18	0.01
Chromium, Atomic Absorption		191.00	1	65.00	2.83	4.00	1	65.00	2.83	4.00
Chromium, ICP		191.30	11	62.88	18.30	3.56	11	62.88	18.30	3.56
Method Group 191.XX PPM			12	63.06	17.50	3.60	12	63.06	17.50	3.60
Acid Soluble Cobalt, AA		202.00	2	39.25	3.30	3.50	2	39.25	3.30	3.50
Acid Soluble Cobalt, ICP	965.11	202.30	9	41.80	7.80	2.95	9	41.80	7.80	2.95
Method Group 202.XX PPM			11	41.33	7.20	3.05	11	41.33	7.20	3.05
Acid Soluble Copper, Atomic Absorption	975.01	221.00	18	7.2524	0.3719	0.1380	18	7.2524	0.3719	0.1380
Acid Soluble Copper, ICP		221.30	27	7.4602	0.3801	0.1107	27	7.4602	0.3801	0.1107
Acid Soluble Copper, Other		221.99	2	7.2362	0.2596	0.1527	2	7.2362	0.2596	0.1527
Method Group 221.XX PCT			47	7.3711	0.3839	0.1229	47	7.3711	0.3839	0.1229
Acid Soluble Iron, Atomic Absorption	980.01	241.00	20	14.62	0.80	0.29	19	14.72	0.64	0.21
Acid Soluble Iron, ICP		241.30	24	15.13	0.82	0.26	23	15.07	0.78	0.23
Acid Soluble Iron, Other		241.99	2	14.44	0.84	1.09	2	14.44	0.84	1.09
Method Group 241.XX PCT			46	14.88	0.85	0.31	44	14.93	0.76	0.24
Lead, Atomic Absorption		251.00	2	40.00	3.65	2.00	2	40.00	3.65	2.00
Lead, ICP		251.30	8	52.15	22.94	3.85	7	52.18	24.48	2.40
Method Group 251.XX PPM			10	49.72	21.03	3.48	9	49.47	22.09	2.31
Acid Soluble Manganese, AA	972.02a	261.00	17	7.274	0.403	0.111	17	7.274	0.403	0.111
Acid Soluble Manganese, AA	972.02b	261.11	2	7.281	0.068	0.078	2	7.281	0.068	0.078
Acid Soluble Manganese, ICP	972.02a	261.30	25	7.590	0.433	0.164	23	7.571	0.409	0.105
Acid Soluble Manganese, ICP	972.02b	261.31	2	7.650	0.122	0.020	2	7.650	0.122	0.020
Acid Soluble Manganese, Other		261.99	5	7.284	0.311	0.118	5	7.284	0.311	0.118
Method Group 261.XX PCT			51	7.445	0.423	0.133	49	7.430	0.407	0.104
Mercury, Atomic Absorption		281.00	1	0.26	0.00	0.01	1	0.26	0.00	0.01
Mercury, Other		281.99	2	0.26	0.01	0.00	2	0.26	0.01	0.00
Method Group 281.XX PPM			3	0.26	0.01	0.01	3	0.26	0.01	0.01
Molybdenum, ICP		289.30	14	575.68	35.53	11.82	13	581.60	28.63	9.57
Nickel, Atomic Absorption		291.00	2	5564.5	566.84	71.00	2	5564.5	566.84	71.00
Nickel, ICP		291.30	6	5342.0	473.20	282.39	5	5455.4	356.89	130.07
Method Group 291.XX PPM			8	5397.6	488.22	229.54	7	5486.6	406.13	113.19
Selenium, ICP		301.30	3	16.13	3.65	0.37	3	16.13	3.65	0.37
Sodium, Other		311.99	9	2.14	0.09	0.05	8	2.15	0.07	0.02
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	19	6.079	0.301	0.135	18	6.110	0.273	0.114
Acid Soluble Zinc, ICP		321.30	29	6.360	0.381	0.129	28	6.370	0.365	0.089
Acid Soluble Zinc, Other		321.99	2	6.414	0.219	0.127	2	6.414	0.219	0.127
Method Group 321.XX PCT			50	6.256	0.372	0.131	48	6.274	0.350	0.100

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 020.50 PCT			Meth: 101.30 PCT			Meth: 101.30 PCT		
Ammoniacal Nitrogen			Total Phosphate			Acid Soluble Calcium			Acid Soluble Calcium		
MgO Distillation		.71	ICP			ICP		.23	ICP		.23
288	0.02		422	0.00	.00	041	7.56 s	25.11	420	3.23	.22
			422	4.14 s	5.10	422	4.14 s	5.10	292	3.24	.20
Meth: 005.00 PCT			Meth: 020.20 PCT			390	3.72	2.68	Avg	3.22	
Nitrogen From Urea			Total Phosphate			035	3.40	.81	131	3.14	-.67
Urease (as N)		.71	389	1.43	1.28	232	3.39	.77	057	3.15	-.73
288	0.11		Avg	0.55		288	3.33	.40	096	3.12	-1.00
			420	0.22	-.48	009	3.31	.27	105	3.17 R	-1.03
			422	0.00	-.79	Avg	3.26		433	3.10	-1.04
Meth: 010.12 PCT			Meth: 048.20 PCT			027	3.25	-.10	022	3.09	-1.17
Total Nitrogen			Water Soluble Phosph			292	3.24	-.12	102	3.02	-1.72
Salicylic			Spectrometric			420	3.24	-.14	065	2.47 s	-6.78
185	0.08	-.71	420	0.19	.71	307	3.26	-.31	Meth: 121.00 PCT		
			Meth: 050.50 PCT			131	3.14	-.71	Acid Soluble Magnesi		
Meth: 010.60 PCT			Soluble Potash			057	3.15	-.71	AA		
Total Nitrogen			ICP (Oxalate)			096	3.12	-.90	105	0.38	.71
Combustion			422	0.25	.86	433	3.10	-.95	009	0.39	.31
073	18.15	1.29	Avg	0.20		102	3.02	-1.41	420	0.39	.29
			307	0.15	-.87	065	2.47 s	-4.77	307	0.38	.28
Meth: 010.20 PCT			Meth: 050.51 PCT			Meth: 101.99 PCT			ICP		.19
Total Nitrogen			Soluble Potash			Acid Soluble Calcium			422	0.68 s	7.19
073	18.15	1.62	ICP (Citrate)			Other			041	0.58 s	4.97
			389	0.21	-.71	389	3.23	.87	390	0.46	2.03
			Avg	0.21		Avg	3.16		433	0.43	1.44
185	0.08	-.54	389	0.21	-.71	022	3.09	-.87	232	0.41	.79
422	0.03	-.54	Meth: 050.20 PCT			Meth: 101.20 PCT			389	0.39	.46
307	0.03	-.54	Soluble Potash			Acid Soluble Calcium			009	0.39	.31
			422	0.25	.86	Acid Soluble Calcium			420	0.39	.29
			307	0.15	-.87	390	3.72 A	4.42	Avg	0.37	.20
Meth: 020.20 PCT			Meth: 101.00 PCT			035	3.40	1.59	096	0.37	-.07
Total Phosphate			Acid Soluble Calcium			232	3.39	1.55	057	0.36	-.25
073	18.15	1.62	422	0.25	.98	288	3.33	.99	035	0.36	-.44
			389	0.21	.30	009	3.31	.79	292	0.35	-.67
185	0.08	-.54	Avg	0.20		307	3.26	.60	131	0.33	-1.03
422	0.03	-.54	307	0.15	-1.21	027	3.25	.25	288	0.33	-1.13
307	0.03	-.54	Meth: 101.00 PCT			Meth: 144.01 PCT			Meth: 144.01 PCT		
			Acid Soluble Calcium			Sulfur			Sulfur		
Meth: 020.20 PCT			AA			Gravimetric			Gravimetric		
Total Phosphate			105	3.17	.71	288	0.20	-.71	288	0.20	-.71
073	18.15	1.62									
185	0.08	-.54									
422	0.03	-.54									
307	0.03	-.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
Meth: 144.02 PCT											
Sulfur											
Gravimetric											
292	0.29	S	.00								
Meth: 144.99 PCT											
Sulfur											
Other											
390	0.20		1.26								
422	0.20		1.20								
102	0.19		.59								
009	0.19		.53								
Meth: 151.30 PPM											
Arsenic											
ICP											
102	35.34		1.08								
230	35.05		.89								
Avg	32.93										
037	32.55		-.51								
096	32.00		-.60								
065	29.70		-1.39								
009	11.65	S	-8.90								
Meth: 151.99 PPM											
Arsenic											
Other											
220	39.00		.71								
Meth: 151.11 PPM											
Arsenic											
220	39.00		1.87								
102	35.34		.56								
230	35.05		.39								
Avg	33.80										
136	33.00		-.40								
037	32.55		-.53								
096	32.00		-.66								
065	29.70		-1.30								
009	11.65	s	-6.89								
Meth: 165.00 PCT											
Acid Soluble Boron											
Spectrometric											
029	4.155		2.00								
105	3.874		.96								
137	3.735		.45								
Avg	3.620										
057	3.615		-.13								
296	3.605		-.21								
055	3.520		-.40								
292	3.450		-.63								
037	3.370		-.93								
Meth: 165.99 PCT											
Acid Soluble Boron											
Spectrometric											
029	4.155		2.09								
042	4.031		1.59								
230	4.020		1.48								
433	3.995		1.37								
090	3.930		.43								
422	3.916		1.07								
043	3.905		.97								
232	3.778		.43								
432	3.735		.25								
Avg	3.716										
377	3.710		1.69								
324	3.705		.07								
Avg	3.690										
360	3.680		-.14								
136	3.640		-.23								
255	3.610		-.37								
057	3.615		-.37								
444	3.625		-.38								
296	3.605		-.45								
354	3.605		-.49								
288	3.625	R	-.67								
055	3.520		-.78								
397	3.500		-.90								
009	3.480		-.94								
292	3.450		-1.07								
211	3.450		-1.09								
300	3.395		-1.32								
037	3.370		-1.43								
028	3.255		-1.95								
220	2.545	s	-5.12								
Meth: 171.00 PCT											
Acid Soluble Boron											
Spectrometric											
029	4.155		2.00								
105	3.874		.96								
137	3.735		.45								
Avg	3.620										
057	3.615		-.13								
296	3.605		-.21								
055	3.520		-.40								
292	3.450		-.63								
037	3.370		-.93								
Meth: 165.00 PCT											
Acid Soluble Boron											
Spectrometric											
029	4.155		2.00								
105	3.874		.96								
137	3.735		.45								
Avg	3.620										
057	3.615		-.13								
296	3.605		-.21								
055	3.520		-.40								
292	3.450		-.63								
037	3.370		-.93								
Meth: 165.99 PCT											
Acid Soluble Boron											
Spectrometric											
029	4.155		2.09								
042	4.031		1.59								
230	4.020		1.48								
433	3.995		1.37								
090	3.930		.43								
422	3.916		1.07								
043	3.905		.97								
232	3.778		.43								
432	3.735		.25								
Avg	3.716										
377	3.710		1.69								
324	3.705		.07								
Avg	3.690										
360	3.680		-.14								
136	3.640		-.23								
255	3.610		-.37								
057	3.615		-.37								
444	3.625		-.38								
296	3.605		-.45								
354	3.605		-.49								
288	3.625	R	-.67								
055	3.520		-.78								
397	3.500		-.90								
009	3.480		-.94								
292	3.450		-1.07								
211	3.450		-1.09								
300	3.395		-1.32								
037	3.370		-1.43								
028	3.255		-1.95								
220	2.545	s	-5.12								
Meth: 171.70 PCT											
Water Soluble Boron											
Titrimetric											
416	3.650		-.71								
Meth: 171.99 PCT											
Water Soluble Boron											
Other											
027	3.310		.71								
Meth: 181.00 PPM											
Cadmium											
Atomic Absorption											
220	1.70		.98								
Avg	1.70										
193	1.70		-.73								
Meth: 181.30 PPM											
Cadmium											
ICP											
324	22.10	s	5.58								
390	11.11		2.03								
065	8.78	R	1.63								
037	7.88		.97								
035	5.94		.34								
Avg	4.91										
096	3.80		-.36								
230	3.00		-.62								
102	2.79		-.69								
232	2.40		-.82								
009	2.35		-.83								

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	
Meth: 181.XX PPM												
Cadmium												
324	22.10 s	5.87										
390	11.11	2.26										
065	8.78 R	1.82										
037	7.88	1.19										
035	5.94	.56										
Avg	4.26											
096	3.80	-.17										
230	3.00	-.42										
102	2.79	-.49										
232	2.40	-.62										
009	2.35	-.63										
220	1.70	-.84										
193	1.70	-.85										
Meth: 190.00 PCT												
Water Soluble Chlori												
Titrimetric												
422	1.21	-.71										
Meth: 190.99 PCT												
Water Soluble Chlori												
Other												
009	0.90	.84										
Avg	0.87											
288	0.84	-.89										
Meth: 190.XX PCT												
Water Soluble Chlori												
422	1.21	1.28										
Avg	0.98											
009	0.90	-.48										
288	0.84	-.80										
Meth: 191.00 PPM												
Chromium												
136	41.50	.82										
Avg	39.25											
220	37.00	-.91										
Atomic Absorption												
220	65.00	.71										
Meth: 191.30 PPM												
Chromium												
ICP												
035	91.40	1.59										
009	87.65	1.35										
037	81.11	1.00										
390	76.95	.78										
102	64.10	.09										
Avg	62.88											
096	61.35	-.10										
065	49.19 X	-.79										
230	47.65	-.83										
232	45.75	-.94										
324	45.30	-.96										
444	41.23	-1.19										
Meth: 191.XX PPM												
Chromium												
035	91.40	1.65										
009	87.65	1.41										
037	81.11	1.03										
390	76.95	.80										
220	65.00	.16										
102	64.10	.09										
Avg	63.06											
096	61.35	-.12										
065	49.19 X	-.84										
230	47.65	-.88										
232	45.75	-.99										
324	45.30	-1.01										
444	41.23	-1.25										
Meth: 202.00 PPM												
Acid Soluble Cobalt												
AA												
162	8.7350 s	3.99										
136	7.6500	1.08										
Avg	7.6050	.95										
220	7.4810	.73										
220	7.5000	.70										
296	7.3800	.59										
Meth: 202.30 PPM												
Acid Soluble Cobalt												
ICP												
390	51.60	1.26										
037	48.59	.87										
035	46.20	.58										
057	45.65	.53										
009	45.75	.52										
Avg	41.80											
230	38.40	-.46										
102	39.36	-.54										
324	32.45	-1.20										
065	28.19 X	-1.82										
232	0.00 s	-5.36										
Meth: 202.XX PPM												
Acid Soluble Cobalt												
390	51.60	1.43										
037	48.59	1.01										
035	46.20	.69										
057	45.65	.64										
009	45.75	.62										
136	41.50	.21										
Avg	41.33											
230	38.40	-.44										
102	39.36	-.55										
220	37.00	-.66										
324	32.45	-1.24										
065	28.19 X	-1.92										
232	0.00 s	-5.74										
Meth: 221.00 PCT												
Acid Soluble Copper												
Atomic Absorption												
162	8.7350 s	3.99										
136	7.6500	1.08										
137	7.6050	.95										
040	7.4810	.73										
220	7.5000	.70										
296	7.3800	.59										
Meth: 221.30 PPM												
Acid Soluble Copper												
ICP												
390	51.60	1.26										
037	48.59	.87										
035	46.20	.58										
057	45.65	.53										
009	45.75	.52										
Avg	41.80											
230	38.40	-.46										
102	39.36	-.54										
324	32.45	-1.20										
065	28.19 X	-1.82										
232	0.00 s	-5.36										
Meth: 221.99 PCT												
Acid Soluble Copper												
Other												
042	7.4474	.88										
Avg	7.2362											
022	7.0250	-.85										
Meth: 221.XX PCT												
Acid Soluble Copper												
ICP												
041	9.0100 s	4.08										
102	8.4232 S	2.64										
090	8.2600	2.11										
035	8.1915	1.95										
288	7.7900	.99										
390	7.8200	.98										
230	7.7400	.74										
291	7.7050	.65										
360	7.6800	.60										
432	7.6350	.60										
292	7.6800	.58										
377	7.6400	.48										
057	7.5450	.32										
330	7.5300	.30										
232	7.5260	.23										
300	7.5350	.20										
009	7.4700	.19										
131	7.5225	.17										
Meth: 221.30 PCT												
Acid Soluble Copper												
ICP												
389	7.5200	.17										
Avg	7.4602											
027	7.3400	-.33										
324	7.3000	-.43										
420	7.2250	-.63										
444	7.1400	-.84										
037	7.1300	-.87										
354	7.0690	-1.03										
422	7.0170	-1.17										
433	6.8200	-1.68										
233	6.8335	-1.69										
255	6.7600	-1.84										
065	4.8580 s	-6.85										

* 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: 221.XX PCT														
<u>Acid Soluble Copper</u>														
137	7.6050	.61	065	4.8580 s	-6.55									
057	7.5450	.50												
040	7.4810	.48	Meth: 241.00 PCT											
330	7.5300	.48	<u>Acid Soluble Iron</u>											
296	7.3800	.47	<u>Atomic Absorption</u>											
232	7.5260	.43	137	15.55	1.29									
300	7.5350	.43	055	15.44	1.22									
131	7.5225	.40	211	15.40	1.06									
220	7.5000	.40	157	15.30	.90									
389	7.5200	.39	177	15.28	.88									
009	7.4700	.32	040	15.27	.87									
042	7.4474	.30	136	15.20	.74									
177	7.4670	.28	105	15.15	.67									
211	7.4650	.25	037	14.92	.32									
029	7.4150	.16	028	14.75	.09									
Avg	7.3711		Avg	14.72										
027	7.3400	-.11	029	14.69	-.26									
351	7.3350	-.11	351	14.44	-.44									
428	7.3600	-.18	095	14.41	-.54									
324	7.3000	-.20	043	14.37	-.55									
095	7.2550	-.30	428	14.38	-.66									
055	7.3350	-.31	030	14.18	-1.12									
420	7.2250	-.40	296	13.78	-1.48									
028	7.3550	-.41	162	13.74	-1.54									
105	7.2050	-.49	220	13.50	-1.91									
043	7.1750	-.56	193	12.62 R	-3.55									
444	7.1400	-.60	397	10.98 s	-5.83									
037	7.1300	-.63	Meth: 241.30 PCT											
354	7.0690	-.79	<u>Acid Soluble Iron</u>											
022	7.0250	-.92	<u>ICP</u>											
422	7.0170	-.93	035	16.62	2.01									
433	6.8200	-1.44	330	16.48 R	1.92									
233	6.8335	-1.44	390	16.35	1.65									
255	6.7600	-1.59	389	16.25	1.55									
260	6.7600	-1.60	324	15.95	1.14									
234	6.4950	-2.29	354	15.48	.55									
157	6.3050	-2.78	027	15.39	.41									
030	5.8850 s	-4.18												
Meth: 221.XX PCT														
<u>Acid Soluble Copper</u>														
042	14.52 R	-1.44												
296	13.78	-1.52												
162	13.74	-1.57												
220	13.50	-1.88												
444	13.38	-2.06												
193	12.62 R	-3.24												
065	13.39 s	-3.46												
090	11.15 s	-4.97												
102	11.04 s	-5.12												
397	10.98 s	-5.17												
288	10.95 s	-5.22												
292	7.52 s	-9.70												
300	2.27 s	-16.57												
Meth: 251.00 PPM														
Lead														
<u>Atomic Absorption</u>														
220	43.00	.87												
Avg	40.00													
136	37.00	-.87												
Meth: 251.30 PPM														
Lead														
<u>ICP</u>														
035	145.00 S	3.79												
102	91.41	1.60												
009	76.70	1.00												
324	58.20	.25												
230	52.80	.03												
Avg	52.18													
232	52.00 R	-.29												
037	32.41	-.81												
444	30.61	-.88												
065	23.10	-1.20												

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index				
Meth: 291.00 PPM																		
Nickel																		
Atomic Absorption																		
220	6054.0	.87													Meth: 321.99 PCT	232	6.159	-.34
Avg	5564.5														Acid Soluble Zinc	211	6.115	-.46
136	5075.0	-.86													Other	037	6.105	-.49
Meth: 291.30 PPM																		
Nickel																		
ICP																		
035	5876.5	1.18													Meth: 321.99 PCT	397	6.076	-.57
009	5502.0	.56													Acid Soluble Zinc	296	6.075	-.57
102	5606.4	.42													Other	055	6.145	-.60
Avg	5455.4														ICP	028	6.125	-.61
232	5404.5	-.14													Acid Soluble Zinc	389	6.050	-.66
037	4888.0	-1.61													Other	420	6.070	-.66
065	4775.0 R	-2.40													ICP	220	6.015	-.75
390	0.59 S	-15.28													Acid Soluble Zinc	105	5.960	-.90
Meth: 291.00 PCT																		
Acid Soluble Zinc																		
Atomic Absorption																		
040	7.911 s	8.93													Other	234	5.925	-1.00
162	6.590	1.78													Acid Soluble Zinc	043	5.900	-1.07
029	6.425	1.38													Other	444	5.850	-1.22
137	6.415	1.12													ICP	351	5.831	-1.27
428	6.365	1.06													Acid Soluble Zinc	233	5.785	-1.44
136	6.360	.92													Other	095	5.755	-1.51
177	6.300	.70													ICP	307	6.100 R	-1.87
055	6.145	.62													Acid Soluble Zinc	157	5.595	-1.94
028	6.125	.57													Other	433	5.575	-2.00
211	6.115	.06													ICP	030	5.530 R	-2.24
Avg	6.110														Acid Soluble Zinc	065	1.353 s	-14.07
296	6.075	-.13													Other			
397	6.076	-.13													ICP			
220	6.015	-.37													Acid Soluble Zinc			
105	5.960	-.55													Other			
234	5.925	-.68													ICP			
043	5.900	-.77													Acid Soluble Zinc			
351	5.831	-1.03													Other			
095	5.755	-1.36													ICP			
157	5.595	-1.89													Acid Soluble Zinc			
030	5.530 R	-2.32													Other			
037	12.10	-1.10													ICP			

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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
010.60	3	0.00	1.12	0.00	261.00	18	- 0.254	1.449	0.182
010.XX	4	0.00	1.08	0.00	261.11	2	0.000	0.813	0.648
020.XX	3	0.00	1.12	0.00	261.30	27	- 0.381	2.901	0.371
050.50	2	0.00	1.21	0.14	261.31	2	0.000	1.218	0.092
050.XX	3	0.00	1.09	0.19	261.99	5	0.000	1.027	0.237
101.30	17	1.51	6.38	0.36	261.XX	54	- 0.257	2.232	0.289
101.99	2	0.00	1.15	0.29	281.99	2	0.00	1.19	0.22
101.XX	20	2.18	8.87	0.54	281.XX	3	0.00	1.07	0.27
121.30	17	0.70	2.24	0.39	289.30	15	- 0.46	1.55	0.35
121.XX	19	0.22	2.96	0.39	289.XX	15	- 0.46	1.55	0.35
144.99	9	0.00	0.93	0.41	291.00	2	0.00	1.22	0.07
144.XX	11	0.44	1.70	0.43	291.30	7	- 2.46	5.76	0.60
151.30	6	- 1.48	3.73	0.35	291.XX	9	- 1.70	4.55	0.47
151.XX	8	- 0.86	2.58	0.42	301.30	3	0.00	1.12	0.05
165.00	10	- 0.401	1.591	0.144	301.XX	3	0.00	1.12	0.05
165.99	21	0.000	0.973	0.275	311.99	9	- 0.09	0.99	0.68
165.XX	31	- 0.174	1.325	0.220	311.XX	9	- 0.09	0.99	0.68
171.XX	4	0.000	1.072	0.111	321.00	20	0.224	1.820	1.392
181.00	2	0.00	0.03	0.87	321.30	31	- 0.359	2.730	0.376
181.30	10	0.68	1.99	0.34	321.99	2	0.000	1.154	0.291
181.XX	12	0.61	1.94	0.31	321.XX	52	- 0.135	2.350	0.738
190.99	2	0.00	1.18	0.22					
190.XX	3	0.00	1.12	0.04					
191.30	11	0.00	1.02	0.13					
191.XX	12	0.00	1.01	0.14					
202.00	2	0.00	0.96	0.54					
202.30	10	- 0.54	1.94	0.24					
202.XX	12	- 0.48	1.91	0.26					
221.00	20	0.0155	1.5552	0.4276					
221.30	30	- 0.007	1.8143	0.2267					
221.99	2	0.0000	1.1504	0.2972					
221.XX	52	0.0028	1.6614	0.3108					
241.00	21	- 0.43	1.71	0.38					
241.30	30	- 1.40	3.79	0.57					
241.99	2	0.00	0.14	0.86					
241.XX	53	- 0.99	3.03	0.51					
251.00	2	0.00	1.16	0.27					
251.30	9	0.42	1.55	0.12					
251.XX	11	0.40	1.59	0.12					