

- Pass 1 Results for 72 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
Total Nitrogen, Combustion .....		010.60	4	0.06	0.04	0.01	3	0.06	0.05	0.00
Total Phosphate, Spectrometric .....	958.01	020.20	2	29.85	34.39	0.16	2	29.85	34.39	0.16
Total Phosphate, ICP .....		020.50	1	0.16	0.01	0.02	1	0.16	0.01	0.02
Method Group 020.XX PCT			3	19.95	30.73	0.11	3	19.95	30.73	0.11
Dir Available Phosphate, ICP .....		041.50	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Soluble Potash, STPB Oxalate .....	958.02	050.00	14	60.67	0.77	0.19	12	60.76	0.56	0.09
Soluble Potash, AA (Oxalate) .....		050.30	7	60.55	1.61	0.61	7	60.55	1.61	0.61
Soluble Potash, ICP (Oxalate) .....		050.50	5	59.86	1.25	1.05	4	59.82	0.93	0.31
Soluble Potash, ICP (Citrate) .....		050.51	8	60.77	1.27	0.46	7	60.67	1.25	0.19
Soluble Potash, Flame (Oxalate) .....	983.02(a)	050.60	3	60.99	0.31	0.33	3	60.99	0.31	0.33
Soluble Potash, Flame (Citrate) .....	983.02(b)	050.61	7	61.82	1.56	0.53	7	61.82	1.56	0.53
Soluble Potash, Other .....		050.99	20	60.60	1.32	0.35	18	60.56	1.31	0.25
Method Group 050.XX PCT			65	60.67	1.35	0.43	61	60.66	1.18	0.32
Free Water, Vacuum Oven .....	965.08B	060.00	3	0.08	0.05	0.01	3	0.08	0.05	0.01
Free Water, Other .....		060.99	3	0.12	0.07	0.00	3	0.12	0.07	0.00
Method Group 060.XX PCT			6	0.10	0.06	0.01	6	0.10	0.06	0.01
Acid Soluble Calcium, AA .....	945.04	101.00	1	0.14	0.04	0.06	1	0.14	0.04	0.06
Acid Soluble Calcium, ICP .....		101.30	7	0.15	0.04	0.00	7	0.15	0.04	0.00
Method Group 101.XX PCT			9	0.16	0.05	0.01	8	0.16	0.05	0.00
Acid Soluble Magnesium, AA .....	984.01	121.00	1	0.11	0.00	0.01	1	0.11	0.00	0.01
Acid Soluble Magnesium, ICP .....		121.30	8	0.15	0.01	0.00	7	0.15	0.01	0.00
Method Group 121.XX PCT			9	0.15	0.02	0.00	9	0.15	0.02	0.00
Sulfur, Gravimetric .....	980.02a	144.01	21	17.25	0.29	0.13	20	17.26	0.28	0.11
Sulfur, Gravimetric .....	980.02b	144.02	1	16.60	0.00	0.00	1	16.60	0.00	0.00
Sulfur, Other .....		144.99	23	17.10	0.73	0.24	22	17.22	0.79	0.19
Method Group 144.XX PCT			45	17.16	0.56	0.19	42	17.16	0.53	0.14
Arsenic, Atomic Absorption .....		151.00	1	0.17	0.00	0.00	1	0.17	0.00	0.00
Arsenic, ICP .....		151.30	1	0.10	0.00	0.00	1	0.10	0.00	0.00
Method Group 151.XX PPM			2	0.14	0.04	0.00	2	0.14	0.04	0.00
Acid Soluble Boron, Other .....		165.99	1	0.005	0.007	0.010	1	0.005	0.007	0.010
Cadmium, Atomic Absorption .....		181.00	1	2.85	0.07	0.10	1	2.85	0.07	0.10
Cadmium, ICP .....		181.30	8	2.85	0.38	0.12	6	2.87	0.43	0.03
Method Group 181.XX PPM			9	2.85	0.36	0.12	7	2.86	0.39	0.04
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	2	44.36	2.63	0.35	2	44.36	2.63	0.35
Water Soluble Chlorine, Other .....		190.99	2	49.48	1.22	0.48	2	49.48	1.22	0.48
Method Group 190.XX PCT			4	46.92	3.33	0.41	4	46.92	3.33	0.41
Chromium, ICP .....		191.30	7	3.77	1.70	0.24	6	3.82	1.83	0.11
Acid Soluble Cobalt, AA .....		202.00	1	8.55	0.07	0.10	1	8.55	0.07	0.10
Acid Soluble Cobalt, ICP .....	965.11	202.30	10	8.58	0.48	0.34	9	8.57	0.45	0.23

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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 202.XX PPM			11	8.57	0.45	0.32	10	8.57	0.43	0.22
Acid Soluble Copper, ICP .....		221.30	5	0.0486	0.0694	0.0239	4	0.0232	0.0424	0.0049
Acid Soluble Iron, ICP .....		241.30	9	0.04	0.05	0.00	7	0.03	0.03	0.00
Lead, ICP .....		251.30	2	3.22	3.70	1.69	2	3.22	3.70	1.69
Acid Soluble Manganese, AA .....	972.02a	261.00	1	0.147	0.002	0.003	1	0.147	0.002	0.003
Acid Soluble Manganese, ICP .....	972.02a	261.30	7	0.152	0.004	0.002	6	0.153	0.003	0.001
Acid Soluble Manganese, Other .....		261.99	1	0.170	0.008	0.011	1	0.170	0.008	0.011
Method Group 261.XX PCT			10	0.154	0.008	0.003	9	0.153	0.007	0.002
Mercury, ICP .....		281.30	1	0.01	0.01	0.01	1	0.01	0.01	0.01
Molybdenum, ICP .....		289.30	4	3.72	4.30	1.15	4	3.72	4.30	1.15
Nickel, Atomic Absorption .....		291.00	1	16.50	0.71	1.00	1	16.50	0.71	1.00
Nickel, ICP .....		291.30	7	17.51	0.56	0.41	7	17.51	0.56	0.41
Method Group 291.XX PPM			9	17.05	1.14	0.43	9	17.05	1.14	0.43
Selenium, Other .....		301.99	1	3.15	0.05	0.07	1	3.15	0.05	0.07
Sodium, Other .....		311.99	5	0.17	0.06	0.03	5	0.17	0.06	0.03
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	9	34.600	1.659	0.394	9	34.600	1.659	0.394
Acid Soluble Zinc, ICP .....		321.30	37	36.356	2.554	0.578	36	36.283	2.528	0.483
Acid Soluble Zinc, Other .....		321.99	6	37.633	2.665	0.287	5	36.790	1.960	0.084
Method Group 321.XX PCT			52	36.200	2.557	0.512	51	36.145	2.536	0.444
Water Soluble Zinc, ICP .....		325.30	1	35.520	0.198	0.280	1	35.520	0.198	0.280
Water Soluble Zinc, Other .....		325.99	4	34.883	1.391	0.920	4	34.883	1.391	0.920
Method Group 325.XX PCT			5	35.010	1.257	0.792	5	35.010	1.257	0.792

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index		
Meth: 010.60 PCT			Meth: 050.00 PCT			Meth: 050.50 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT				
Total Nitrogen			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash				
<u>Combustion</u>			<u>STPB Oxalate</u>			<u>ICP (Oxalate)</u>			<u>Other</u>							
354	0.13	1.29	489	60.97	.38	Avg	59.82		451	64.45 S	3.08	483	61.44 R	1.22		
Avg	0.06		049	60.97	.37	292	58.49	-1.43	025	63.95	2.59	029	61.93	1.08		
483	0.06 R	-.29	090	60.83	.33	488	55.25 s	-5.27	487	62.61	1.56	114	61.65	.85		
422	0.04	-.59	470	60.90	.25				255	62.40	1.40	230	61.40	.72		
292	0.03	-.70	Avg	60.76		Meth: 050.51 PCT			390	62.15 R	1.30	040	61.25	.69		
			057	60.75	-.03	Soluble Potash			177	61.10	.42	416	61.22	.48		
Meth: 020.20 PCT			231	60.59	-.31	<u>ICP (Citrate)</u>			476	61.11	.42	211	61.21	.47		
Total Phosphate			022	60.40	-.64	007	62.40	1.38	402	60.75	.37	406	60.86	.43		
<u>Spectrometric</u>			041	60.20	-.99	096	62.34	1.35	027	60.64	.28	105	61.10	.40		
042	59.63	.87	055	59.42	-2.39	483	61.44 R	1.14	247	60.63	.05	402	60.75	.39		
Avg	29.85		258	58.83 R	-3.50	023	60.77	.08	Avg	60.56		177	61.10	.39		
292	0.07	-.87	102	57.40 s	-5.95	Avg	60.67		444	60.20	-.28	476	61.11	.39		
						291	60.31	-.29	322	60.14	-.32	169	61.07	.35		
Meth: 020.50 PCT			Meth: 050.30 PCT			486			60.04	-.52	481	59.95	-.47	324	60.85	.34
Total Phosphate			Soluble Potash			137			59.99	-.55	360	59.98	-.50	470	61.04	.33
<u>ICP</u>			<u>AA (Oxalate)</u>			377			58.85	-1.46	371	59.85	-.54	489	60.97	.27
483	0.16	.71	185	62.20	1.03	Meth: 050.60 PCT			307	59.84	-.59	049	60.97	.26		
			136	62.15	.99	Soluble Potash			450	59.88 R	-.71	470	60.90	.21		
Meth: 020.XX PCT			040	61.25	.55	<u>Flame (Oxalate)</u>			455	59.55	-.77	090	60.83	.21		
Total Phosphate			309	60.63	.07	169	61.07	.26	460	59.45	-.85	023	60.77	.10		
042	59.63	1.29	Avg	60.55		470	61.04	.17	368	59.33	-.93	057	60.75	.08		
Avg	19.95		351	60.17	-.24	Avg	60.99		493	58.55	-1.53	Avg	60.66			
483	0.16	-.64	157	60.00	-.46	406	60.86	-1.55	482	57.35 S	-2.75	247	60.63	-.03		
292	0.07	-.65	073	57.47	-1.97							309	60.63	-.07		
						Meth: 050.XX PCT						231	60.59	-.07		
Meth: 041.50 PCT			Meth: 050.31 PCT			Meth: 050.61 PCT			<u>Soluble Potash</u>			022	60.40	-.22		
Dir Available Phosph			Soluble Potash			Soluble Potash			456	64.75 A	3.48	291	60.31	-.29		
<u>ICP</u>			<u>AA (Citrate)</u>			<u>Flame (Citrate)</u>			451	64.45 s	3.36	027	60.64	-.31		
354	0.00	.00	472	56.45 S	.00	456	64.75	1.89	025	63.95	2.80	041	60.20	-.39		
						028	62.24	.38	487	62.61	1.66	444	60.20	-.40		
Meth: 050.00 PCT			Meth: 050.50 PCT			131			62.36	.35	255	62.40	1.48	351	60.17	-.41
Soluble Potash			Soluble Potash			029			61.93	.08	007	62.40	1.48	034	60.24	-.42
<u>STPB Oxalate</u>			<u>ICP (Oxalate)</u>			Avg			61.82		131	62.36	1.45	322	60.14	-.44
114	61.65	1.59	422	60.00 R	2.15	105	61.10	-.47	096	62.34	1.44	486	60.04	-.54		
230	61.40 R	1.34	324	60.85	1.17	034	60.24	-1.03	028	62.24	1.39	354	60.02	-.55		
416	61.22	.82	055	59.93	.23	035	60.11	-1.17	390	62.15	1.37	137	59.99	-.57		
211	61.21	.80	354	60.02	.21				185	62.20	1.32	481	59.95	-.60		

\* 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: 050.XX PCT</u>			<u>Meth: 060.XX PCT</u>			<u>Meth: 101.XX PCT</u>			<u>Meth: 144.01 PCT</u>			<u>Meth: 144.99 PCT</u>		
<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Sulfur</u>			<u>Sulfur</u>		
360	59.98	-.63	416	1.79 s	27.08	389	0.07	-1.84	<u>Gravimetric</u>			<u>Other</u>		
055	59.93	-.64	309	0.20	1.59	Meth: 121.00 PCT			055	17.79	1.88	360	17.76	.73
371	59.85	-.69	486	0.13	.40	Acid Soluble Magnesi			114	17.67	1.45	422	17.30 R	.64
157	60.00	-.70	493	0.13	.40	<u>AA</u>			157	17.55	1.05	389	17.45	.30
035	60.11	-.72	Avg	0.10		105 0.11 .71			041	17.54	1.04	177	17.27	.23
307	59.84	-.74	489	0.10	-.12	Meth: 121.30 PCT			324	17.45	.86	486	17.40	.23
450	59.88	-.86	481	0.04	-.98	Acid Soluble Magnesi			102	17.45	.68	291	17.39	.22
455	59.55	-.94	007	0.02	-1.30	<u>ICP</u>			416	17.37	.39	157	17.30	.10
460	59.45	-1.03	Meth: 101.00 PCT			483 0.17 R 1.96			073	17.36	.34	Avg	17.14	
055	59.42	-1.06	Acid Soluble Calcium			057 0.17 1.68			233	17.35	.33	027	17.06	-.22
368	59.33	-1.13	<u>AA</u>			035 0.16 .79			105	17.32	.22	368	16.97	-.33
377	58.85	-1.54	105	0.14	-.71	390 0.16 .49			057	17.27	.02	351	16.95	-.41
258	58.83	-1.59	Meth: 101.30 PCT			Avg 0.15			Avg	17.26		023	16.87	-.47
422	60.00 R	-1.79	Acid Soluble Calcium			354 0.15 -.03			028	17.13	-.53	029	16.85	-.54
493	58.55	-1.79	<u>ICP</u>			102 0.14 -.89			230	17.10	-.69	450	16.78	-.57
292	58.49	-1.85	483	0.25 s	2.61	022 0.14 X -.98			371	17.05	-.79	354	16.78	-.58
102	57.40	-2.77	390	0.19	1.15	482 0.14 -1.04			231	17.05	-.79	025	16.70	-.66
073	57.47 R	-2.78	035	0.18	.86	389 0.04 s -11.66			040	17.05	-.94	255	16.32	-1.16
482	57.35 s	-3.14	482	0.16	.26	Meth: 121.XX PCT			481	16.97	-1.08	307	16.12 R	-1.49
472	56.45 s	-3.62	102	0.16	.25	<u>Acid Soluble Magnesi</u>			444	16.96	-1.12	096	15.75	-1.87
488	55.25 s	-4.86	Avg	0.15		483 0.17 1.29			029	16.94 R	-1.57	472	15.74	-1.89
Meth: 060.00 PCT			022	0.14 X	-.22	057 0.17 1.12			493	16.70	-2.16	Meth: 144.XX PCT		
Free Water			354	0.14	-.25	035 0.16 .59			Meth: 144.02 PCT			<u>Sulfur</u>		
<u>Vacuum Oven</u>			389	0.07	-2.05	390 0.16 .41			Sulfur			390	19.50 s	5.12
416	1.79 S	35.15	Meth: 101.XX PCT			354 0.15 .10			Gravimetric			117	18.85 s	3.19
493	0.13	.93	Acid Soluble Calcium			Avg 0.15			292			16.60	.00	
489	0.10	.33	483	0.25	1.77	102 0.14 -.42			Meth: 144.99 PCT			102	18.28	2.12
Avg	0.08		390	0.19	.64	022 0.14 X -.47			Sulfur			049	18.19	1.94
007	0.02	-1.24	035	0.18	.41	482 0.14 -.51			Other			483	18.15	1.86
Meth: 060.99 PCT			Avg	0.16		105 0.11 -2.10			390			19.50 s	3.40	
Free Water			482	0.16	-.05	389 0.04 s -6.89			117			18.85 S	2.08	
<u>Other</u>			102	0.16	-.06				102			18.28	1.36	
309	0.20	1.09	022	0.14 X	-.42				049			18.19	1.24	
486	0.13	.08	354	0.14	-.45				483			18.15	1.18	
Avg	0.12		105	0.14 R	-.69				482			18.05	1.15	
481	0.04	-1.14							389			17.45	.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
<u>Meth: 144.XX PCT Sulfur</u>			<u>Meth: 151.00 PPM Arsenic Atomic Absorption</u>			<u>Meth: 181.XX PPM Cadmium</u>			<u>Meth: 191.30 PPM Chromium ICP</u>			<u>Meth: 202.XX PPM Acid Soluble Cobalt</u>		
102	17.45	.55	136	0.17	.00	368	9.89 s	18.02	096	3.82		096	8.95	.91
486	17.40	.45				096	3.40	1.37	Avg	3.82		368	8.90	.77
291	17.39	.43	<u>Meth: 151.30 PPM Arsenic ICP</u>			230	3.17	.79	102	3.36	-.26	230	8.75	.44
416	17.37	.39	450	0.10	.00	482	3.01	.37	450	3.50 R	-.32	102	8.73	.39
177	17.27	.38				102	2.89	.06	368	3.19	-.34	481	8.65	.27
073	17.36	.37	<u>Meth: 151.XX PPM Arsenic</u>			Avg	2.86		230	3.14	-.37	Avg	8.57	
233	17.35	.36	136	0.17	.87	136	2.85	-.13	482	2.93	-.49	136	8.55	-.12
105	17.32	.30	Avg	0.14		035	2.84 R	-.51	486	2.60	-.67	035	8.27	-.68
157	17.30	.26	450	0.10	-.87	450	2.80 R	-.54	<u>Meth: 202.00 PPM Acid Soluble Cobalt AA</u>			482	7.97	-1.44
057	17.27	.21				486	2.58	-.72	136	8.55	-.71	450	7.90	-1.96
137	17.19	.06	<u>Meth: 165.99 PCT Acid Soluble Boron Other</u>			481	2.15	-1.82	<u>Meth: 202.30 PPM Acid Soluble Cobalt ICP</u>			255	6.94 s	-3.97
Avg	17.16		354	0.005	.71	<u>Meth: 190.00 PCT Water Soluble Chlori Titrimetric</u>			057	8.66 R	1.48	<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>		
028	17.13	-.11				444	46.63	.86	486	9.00	1.06	486	0.1500 R	3.21
027	17.06	-.22	<u>Meth: 181.00 PPM Cadmium Atomic Absorption</u>			Avg	44.36		255	0.0915	1.62	Avg	0.0232	
371	17.05	-.22	136	2.85	.71	422	42.09	-.87	057	8.66 R	1.48	433	0.0009	-.53
230	17.10	-.22				<u>Meth: 190.99 PCT Water Soluble Chlori Other</u>			486	9.00	1.06	057	0.0006	-.53
231	17.05	-.23	<u>Meth: 181.30 PPM Cadmium ICP</u>			389	50.50	.84	368	8.90	.73	354	0.0000	-.55
040	17.05	-.35	368	9.89 s	16.59	Avg	49.48		230	8.75	.41	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>		
481	16.97	-.37	096	3.40	1.25	027	48.46	-.89	102	8.73	.37	035	0.15 R	4.43
368	16.97	-.38	230	3.17	.72	<u>Meth: 190.XX PCT Water Soluble Chlori</u>			481	8.65	.25	389	0.09	2.34
444	16.96	-.39	482	3.01	.34	389	50.50	1.08	Avg	8.57		Avg	0.03	
351	16.95	-.51	102	2.89	.05	027	48.46	.48	035	8.27	-.65	354	0.02	-.22
023	16.87	-.59	Avg	2.87		Avg	46.92		482	7.97	-1.37	057	0.02	-.25
029	16.94	-.68	035	2.84 R	-.47	444	46.63	-.09	450	7.90	-1.86	049	0.02	-.32
029	16.85	-.70	450	2.80 R	-.49	422	42.09	-1.45	<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			102	0.01	-.44
450	16.78	-.73	486	2.58	-.67	<u>Meth: 191.30 PPM Chromium ICP</u>			255	6.94 S	.00	482	0.02 R	-.45
354	16.78	-.75	481	2.15	-1.69	096	7.70	2.12	<u>Meth: 202.XX PPM Acid Soluble Cobalt</u>			022	0.01 X	-.54
025	16.70	-.87							057	8.66 R	1.57	483	0.01	-.57
493	16.70	-.94							486	9.00	1.12			
292	16.60	-1.05												
255	16.32	-1.60												
307	16.12 R	-2.10												
096	15.75	-2.65												
472	15.74	-2.68												

\* 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: 251.30 PPM			Meth: 261.XX PCT			Meth: 291.XX PPM			Meth: 321.00 PCT			Meth: 321.30 PCT		
Lead			Acid Soluble Manganese			Nickel			Acid Soluble Zinc			Acid Soluble Zinc		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>		
035	6.25	.91	354	0.150	-.42	096	21.55 s	3.95	351	33.048	-.94	354	34.695	-.65
Avg	3.22		105	0.147	-.98	049	18.00	.89	029	32.500	-1.31	096	34.600	-.67
450	0.20	-.82	022	0.147 X	-1.18	368	17.93	.81				131	34.250	-.81
Meth: 261.00 PCT			Meth: 281.30 PPM			035			Meth: 321.30 PCT			255		
Acid Soluble Manganese			Mercury			102			Acid Soluble Zinc			482		
<u>AA</u>			<u>ICP</u>			Avg			<u>ICP</u>			041		
105	0.147	.71	450	0.01	.71	481	16.90	-.14	057	43.250	2.76	472	29.655	-2.62
Meth: 261.30 PCT			Meth: 289.30 PPM			482			049			483		
Acid Soluble Manganese			Molybdenum			136			422			114		
<u>ICP</u>			<u>ICP</u>			486			027			Meth: 321.99 PCT		
390	0.167 s	4.35	255	9.70	1.42				360	39.210	1.16	Acid Soluble Zinc		
102	0.157	1.47	057	4.82	.34	Meth: 301.99 PPM			035	39.050	1.11	Other		
057	0.156	1.20	Avg	3.72		Selenium			090	39.030	1.09	117		
Avg	0.153		450	0.35	-.78	<u>Other</u>			102	38.330	.82	460		
035	0.152	-.45	433	0.00	-.86	255			231	38.250	.78	487		
354	0.150	-.75	Meth: 291.00 PPM			Meth: 311.99 PCT			022	38.047 X	.77	Avg		
482	0.150	-.75	Nickel			Sodium			389	37.750	.58	481		
389	0.150	-.75	<u>Atomic Absorption</u>			<u>Other</u>			307	37.520	.51	470		
022	0.147 R	-2.25	136	16.50	.71	057	0.27	1.72	073	36.765	.24	Meth: 321.XX PCT		
Meth: 261.99 PCT			Meth: 291.30 PPM			Avg			042	36.450	.15	Acid Soluble Zinc		
Acid Soluble Manganese			Nickel			035			292	36.335	.07	057		
<u>Other</u>			<u>ICP</u>			102			291	36.310	.01	117		
483	0.170	.71	096	21.55 s	7.25	354	0.16	-.52	402	35.760	-.22	049		
Meth: 261.XX PCT			049			Meth: 321.00 PCT			136	35.750	-.22	422		
Acid Soluble Manganese			368			Acid Soluble Zinc			377	35.720	-.24	027		
<u>ICP</u>			17.93			<u>Atomic Absorption</u>			230	35.800	-.25	360		
483	0.170 R	2.68	035	17.55	.81	105			371	35.590	-.27	035		
390	0.167	2.17	230	17.80	.55	169			055	35.595	-.28	090		
102	0.157	.71	102	17.69	.32	258			486	35.500	-.31	034		
057	0.156	.57	Avg	17.51		35.595			324	35.800	-.37	102		
Avg	0.153		481	16.90	-1.10	.66			390	35.350	-.37	460		
035	0.152	-.26	482	16.70	-1.49	.46			444	35.320	-.38	231		
482	0.150	-.42	486	14.40 s	-5.55	Avg			433	35.230	-.42	022		
389	0.150	-.42				34.600			488	34.950	-.54	487		
						040			450	34.840	-.61			
						028			368	34.687	-.63			
						493								

\* 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: 321.XX PCT			Meth: 321.XX PCT								
<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>								
389	37.750	.63	472	29.655	-2.56						
307	37.520	.56	483	27.700 s	-3.34						
105	37.240	.43	114	22.920 s	-5.22						
073	36.765	.29	Meth: 325.30 PCT								
042	36.450	.18	Water Soluble Zinc								
169	36.595	.18	<u>ICP</u>								
292	36.335	.10	137	35.520	.71						
291	36.310	.07	Meth: 325.99 PCT								
Avg	36.145		Water Soluble Zinc								
402	35.760	-.16	<u>Other</u>								
136	35.750	-.17	157	36.450	1.40						
377	35.720	-.19	027	35.000	.12						
230	35.800	-.21	Avg	34.883							
371	35.590	-.22	450	34.840	-.37						
055	35.595	-.22	493	33.240	-1.18						
486	35.500	-.25	Meth: 325.XX PCT								
258	35.595	-.29	<u>Water Soluble Zinc</u>								
177	35.352	-.32	157	36.450	1.47						
390	35.350	-.32	137	35.520	.42						
444	35.320	-.33	Avg	35.010							
481	35.295	-.34	027	35.000	-.09						
324	35.800	-.34	450	34.840	-.43						
433	35.230	-.36	493	33.240	-1.41						
488	34.950	-.49									
450	34.840	-.55									
368	34.687	-.58									
354	34.695	-.59									
096	34.600	-.61									
040	34.483	-.66									
131	34.250	-.76									
255	33.915	-.88									
470	33.890	-.89									
028	33.350	-1.10									
493	33.240	-1.15									
482	33.150	-1.19									
351	33.048	-1.22									
029	32.500	-1.46									
041	32.500	-1.46									

\* 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
010.60	4	- 0.04	0.92	0.11	261.XX	10	0.255	1.232	0.372
010.XX	4	- 0.04	0.92	0.11	289.30	4	0.00	1.06	0.19
020.20	2	0.00	1.22	0.00	289.XX	4	0.00	1.06	0.19
020.XX	3	0.00	1.12	0.00	291.30	9	0.19	3.31	0.46
050.00	15	- 0.55	1.99	0.29	291.XX	10	0.39	1.56	0.25
050.30	7	0.00	1.01	0.25	311.99	5	0.00	1.01	0.28
050.50	6	- 0.78	2.17	1.20	311.XX	5	0.00	1.01	0.28
050.51	8	0.08	0.98	0.35	321.00	9	0.000	1.016	0.161
050.60	3	0.00	0.37	0.86	321.30	39	- 0.195	1.396	0.182
050.61	7	0.00	1.02	0.21	321.99	6	0.430	1.418	0.138
050.99	22	0.06	1.26	0.37	321.XX	54	- 0.137	1.291	0.164
050.XX	67	- 0.09	1.40	0.43	325.99	4	0.000	0.944	0.455
060.00	4	8.78	17.59	0.55	325.XX	4	0.352	0.577	0.505
060.99	3	0.00	1.12	0.04					
060.XX	7	3.87	10.27	0.33					
101.30	8	0.32	1.33	0.11					
101.XX	9	- 0.05	0.97	0.20					
121.30	9	- 1.08	4.11	0.20					
121.XX	10	- 0.69	2.38	0.13					
144.01	21	- 0.06	0.98	0.35					
144.99	25	0.06	1.14	0.42					
144.XX	44	0.14	1.29	0.49					
151.XX	2	0.00	1.22	0.00					
181.30	9	1.81	5.57	0.62					
181.XX	10	1.77	5.74	0.64					
190.00	2	0.00	1.22	0.07					
190.99	2	0.00	1.18	0.22					
190.XX	4	0.00	1.08	0.07					
191.30	7	- 0.02	0.96	0.11					
191.XX	7	- 0.02	0.96	0.11					
202.30	10	0.02	0.88	0.61					
202.XX	12	- 0.30	1.39	0.67					
221.30	5	0.5974	1.6270	0.5364					
221.XX	5	0.5974	1.6270	0.5364					
241.30	9	0.45	1.75	0.08					
241.XX	9	0.45	1.75	0.08					
251.30	2	0.00	1.16	0.29					
251.XX	2	0.00	1.16	0.29					
261.30	8	0.318	1.937	0.552					