

- Pass 1 Results for 70 Labs - - Pass 2 Results for 69 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	6	8.04	0.85	0.07	5	8.23	0.79	0.02
Ammoniacal Nitrogen, Other		001.99	6	7.63	1.73	0.06	6	7.63	1.73	0.06
Method Group 001.XX PCT			12	7.83	1.35	0.07	11	7.90	1.39	0.05
Nitrate Nitrogen, Jones Modified	930.02	002.20	1	20.40	0.57	0.80	1	20.40	0.57	0.80
Nitrate Nitrogen, Other		002.99	6	8.20	1.16	0.22	5	8.24	1.25	0.05
Method Group 002.XX PCT			7	9.94	4.56	0.30	6	10.27	4.87	0.18
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	16.82	0.05	0.07	1	16.82	0.05	0.07
Percent Biuret, Spec (as Biuret)	960.04	008.10	2	0.94	0.09	0.01	2	0.94	0.09	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	2	15.42	0.21	0.04	2	15.42	0.21	0.04
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	32.11	0.93	0.04	4	32.11	0.93	0.04
Total Nitrogen, Salicylic	955.04D	010.12	4	31.24	0.47	0.42	4	31.24	0.47	0.42
Total Nitrogen, Combustion		010.60	49	32.21	0.39	0.16	46	32.24	0.34	0.12
Total Nitrogen, Other		010.99	2	32.25	0.36	0.32	2	32.25	0.36	0.32
Method Group 010.XX PCT			63	32.05	0.59	0.21	59	32.10	0.55	0.16
Total Phosphate, Spectrometric	958.01	020.20	3	3.40	2.52	0.11	3	3.40	2.52	0.11
Total Phosphate, ICP		020.50	1	5.44	0.04	0.06	1	5.44	0.04	0.06
Method Group 020.XX PCT			4	3.91	2.33	0.09	4	3.91	2.33	0.09
Insoluble Phosphate, ICP		030.50	1	0.28	0.04	0.05	1	0.28	0.04	0.05
InDir Available Phosphate, Other		040.99	1	4.68	0.03	0.04	1	4.68	0.03	0.04
Dir Available Phosphate, ICP		041.50	2	4.64	0.19	0.04	2	4.64	0.19	0.04
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	0.13	0.01	0.01	1	0.13	0.01	0.01
Soluble Potash, ICP (Oxalate)		050.50	3	0.18	0.16	0.01	3	0.18	0.16	0.01
Soluble Potash, Other		050.99	3	0.11	0.09	0.02	3	0.11	0.09	0.02
Method Group 050.XX PCT			6	0.14	0.13	0.01	5	0.13	0.14	0.01
Free Water, Vacuum Oven	965.08B	060.00	2	1.92	0.26	0.07	2	1.92	0.26	0.07
Acid Soluble Calcium, ICP		101.30	9	0.77	0.27	0.03	8	0.77	0.29	0.02
Acid Soluble Magnesium, ICP		121.30	10	0.85	1.13	0.02	10	0.85	1.13	0.02
Sulfur, Gravimetric	980.02a	144.01	12	5.60	1.42	0.11	11	5.20	0.46	0.07
Sulfur, Gravimetric	980.02b	144.02	2	8.87	3.91	0.06	2	8.87	3.91	0.06
Sulfur, Other		144.99	27	10.80	3.22	0.20	27	10.80	3.22	0.20
Method Group 144.XX PCT			42	9.32	3.73	0.16	38	9.26	3.77	0.12
Arsenic, ICP		151.30	4	9.50	2.85	0.82	4	9.50	2.85	0.82
Acid Soluble Boron, Spectrometric	982.01	165.00	1	0.315	0.072	0.102	1	0.315	0.072	0.102
Acid Soluble Boron, Other		165.99	5	0.283	0.042	0.019	4	0.269	0.027	0.007
Method Group 165.XX PCT			6	0.288	0.045	0.033	6	0.288	0.045	0.033
Cadmium, ICP		181.30	5	244.31	20.28	5.65	5	244.31	20.28	5.65
Water Soluble Chlorine, Titrimetric	928.02	190.00	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Chromium, ICP		191.30	5	491.91	43.24	18.56	4	478.37	32.73	7.37
Acid Soluble Cobalt, ICP	965.11	202.30	6	73.56	13.32	2.01	6	73.56	13.32	2.01

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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
Acid Soluble Copper, ICP		221.30	10	0.3987	0.0307	0.0179	9	0.3977	0.0304	0.0129
Acid Soluble Iron, ICP		241.30	12	2.28	0.21	0.13	12	2.28	0.21	0.13
Lead, ICP		251.30	5	556.75	54.60	25.25	5	556.75	54.60	25.25
Acid Soluble Manganese, ICP	972.02a	261.30	8	1.748	0.095	0.039	8	1.748	0.095	0.039
Acid Soluble Manganese, Other		261.99	1	1.476	0.001	0.001	1	1.476	0.001	0.001
Method Group 261.XX PCT			10	1.762	0.181	0.033	10	1.762	0.181	0.033
Mercury, Atomic Absorption		281.00	1	0.77	0.00	0.00	1	0.77	0.00	0.00
Mercury, ICP		281.30	1	0.02	0.00	0.01	1	0.02	0.00	0.01
Method Group 281.XX PPM			2	0.39	0.44	0.00	2	0.39	0.44	0.00
Molybdenum, ICP		289.30	6	276.11	130.42	9.03	6	276.11	130.42	9.03
Nickel, ICP		291.30	5	1373.2	124.11	41.36	5	1373.2	124.11	41.36
Selenium, ICP		301.30	2	12.85	1.82	0.40	2	12.85	1.82	0.40
Selenium, Other		301.99	1	5.75	3.06	4.32	1	5.75	3.06	4.32
Method Group 301.XX PPM			3	10.48	4.16	1.71	3	10.48	4.16	1.71
Sodium, Other		311.99	4	0.68	0.04	0.04	3	0.67	0.03	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	7	35.045	3.879	0.542	7	35.045	3.879	0.542
Acid Soluble Zinc, Gravimetric	942.02	321.10	1	37.995	0.007	0.010	1	37.995	0.007	0.010
Acid Soluble Zinc, ICP		321.30	33	35.098	2.004	0.644	32	35.162	1.973	0.547
Acid Soluble Zinc, Other		321.99	4	34.739	2.668	0.522	4	34.739	2.668	0.522
Method Group 321.XX PCT			46	35.277	2.626	0.652	43	34.977	2.082	0.540
Water Soluble Zinc, ICP		325.30	2	19.910	18.037	0.170	2	19.910	18.037	0.170
Water Soluble Zinc, Other		325.99	2	34.440	1.200	1.340	2	34.440	1.200	1.340
Method Group 325.XX PCT			4	27.175	14.155	0.755	4	27.175	14.155	0.755

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 002.20 PCT			Meth: 009.10 PCT			Meth: 010.60 PCT			Meth: 010.60 PCT		
Ammoniacal Nitrogen			Nitrate Nitrogen			Ammon & Nitrate N			Total Nitrogen			Total Nitrogen		
<u>MgO Distillation</u>			<u>Jones Modified</u>			<u>Devarda</u>			<u>Combustion</u>			<u>Combustion</u>		
405	9.72 X	1.87	230	20.40	.71	420	15.61	.88	096	32.57	.94	389	31.85	-1.15
Avg	8.23					Avg	15.42		009	32.55	.91	393	31.70	-1.57
090	8.04	-.25	Meth: 002.99 PCT			291	15.24	-.85	073	32.54	.87	230	31.70 R	-1.80
230	7.96	-.35	Nitrate Nitrogen			Meth: 010.10 PCT			371	32.50	.75	095	31.50	-2.17
456	7.74	-.62	<u>Other</u>			Total Nitrogen			330	32.45	.74	027	31.35	-2.59
232	7.72	-.65	420	10.58	1.87	<u>Reduced Iron</u>			360	32.45	.64	377	31.35	-2.59
330	7.05 R	-1.51	Avg	8.24		470	28.25 S	.00	131	32.46	.62	428	31.20 R	-3.14
Meth: 001.99 PCT			371	7.98	-.21	Meth: 010.11 PCT			040	32.35	.54	157	31.15 s	-3.42
Ammoniacal Nitrogen			027	7.65	-.47	Total Nitrogen			055	32.40	.46	325	30.90 s	-3.99
<u>Other</u>			368	7.99 R	-.48	<u>Modified Comprehensi</u>			049	32.39	.42	042	30.70 s	-4.70
137	31.79 S	13.96	232	7.61	-.51	114	32.91	.86	247	32.36	.36	420	30.53 s	-4.97
409	10.64	1.74	450	7.39	-.68	260	32.62	.55	007	32.35	.35	Meth: 010.99 PCT		
096	7.79	.09	Meth: 002.XX PCT			090	32.24	.15	029	32.27	.33	Total Nitrogen		
027	7.63	.02	Nitrate Nitrogen			Avg	32.11		405	32.33	.28	<u>Other</u>		
Avg	7.63		230	20.40	2.08	416	30.66	-1.56	292	32.34	.27	200	32.47 X	.61
450	7.53	-.07	420	10.58	.06	Meth: 010.12 PCT			034	32.34	.27	Avg	32.25	
368	7.24	-.23	Avg	10.27		Total Nitrogen			354	32.33	.26	255	32.03	-1.06
420	4.95	-1.55	371	7.98	-.47	<u>Salicylic</u>			086	32.28	.18	Meth: 010.XX PCT		
Meth: 001.XX PCT			368	7.99 R	-.48	185	31.82	1.27	043	32.25	.16	Total Nitrogen		
Ammoniacal Nitrogen			027	7.65	-.54	117	31.25	.75	291	32.27	.08	422	34.29 s	3.99
137	31.79 s	17.19	232	7.61	-.55	Avg	31.24		255	32.24	-.08	233	32.93	1.51
409	10.64	1.97	450	7.39	-.59	455	30.97	-.57	231	32.20	-.15	114	32.91	1.46
405	9.72 X	1.30	Meth: 005.00 PCT			275	32.19	-.17	275	32.19	-.17	023	32.85	1.38
090	8.04	.09	Nitrogen From Urea			232	32.19	-.17	232	32.19	-.17	368	32.75	1.22
230	7.96	.04	<u>Urease (as N)</u>			037	32.20	-.21	037	32.20	-.21	409	32.72	1.13
Avg	7.90		232	16.82	.71	234	32.21	-.24	234	32.21	-.24	451	32.27 R	1.07
096	7.79	-.09	Meth: 008.10 PCT			Meth: 010.60 PCT			136	32.15	-.27	324	32.65	1.00
456	7.74	-.12	Percent Biuret			Total Nitrogen			028	32.15	-.49	260	32.62	.94
232	7.72	-.13	<u>Spec (as Biuret)</u>			<u>Combustion</u>			450	32.12	-.56	096	32.57	.84
027	7.63	-.20	450	1.02	.87	422	34.29 s	5.96	041	32.06	-.57	009	32.55	.82
450	7.53	-.27	Avg	0.94		233	32.93	2.01	351	32.05	-.58	073	32.54	.80
368	7.24	-.48	090	0.86	-.87	023	32.85	1.80	102	32.03	-.63	371	32.50	.72
330	7.05 R	-.62	Meth: 008.10 PCT			451	32.27 R	1.64	162	32.01	-.74	330	32.45	.69
420	4.95	-2.13	Percent Biuret			368	32.75	1.55	035	31.98	-.77	200	32.47 X	.68
			<u>Spec (as Biuret)</u>			409	32.72	1.40	307	32.07	-.80	360	32.45	.64
			Avg			324	32.65	1.19	177	31.90	-1.03			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index		
Meth: 010.XX PCT			Meth: 010.XX PCT			Meth: 040.99 PCT			Meth: 050.XX PCT			Meth: 121.30 PCT				
<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>InDir Available Phos</u>			<u>Soluble Potash</u>			<u>Acid Soluble Magnesi</u>				
131	32.46	.64	027	31.35	-1.37	Other			420	0.03	-.74	ICP				
055	32.40	.54	377	31.35	-1.37	479	4.68	.71	325	0.00	-.96	420	0.05	-.70		
040	32.35	.53	117	31.25 R	-1.68	Meth: 041.50 PCT			Meth: 060.00 PCT			Meth: 144.01 PCT				
049	32.39	.51	428	31.20	-1.73	<u>Dir Available Phosph</u>			<u>Free Water</u>			<u>Sulfur</u>				
247	32.36	.47	157	31.15 R	-1.92	ICP			Vacuum Oven			Gravimetric				
007	32.35	.46	455	30.97	-2.06	325	4.80	.87	416	2.15	.88	470	14.77 s	20.64		
034	32.34	.42	325	30.90	-2.26	Avg	4.64		Avg	1.92		114	9.98 R	10.32		
292	32.34	.42	254	30.91	-2.26	354	4.48	-.86	479	1.70	-.86	029	6.31	2.40		
405	32.33	.42	416	30.66	-2.63	Meth: 048.20 PCT			Meth: 101.30 PCT			296	5.84	1.37		
354	32.33	.42	042	30.70 R	-2.71	<u>Water Soluble Phosph</u>			<u>Acid Soluble Calcium</u>			095	5.32	.27		
029	32.27	.36	420	30.53	-2.87	Spectrometric			ICP			Avg	5.20			
086	32.28	.33	470	28.25 s	-7.02	420	0.13	.71	090	20.09 s	67.31	324	5.11	-.21		
291	32.27	.30	Meth: 020.20 PCT			Meth: 050.50 PCT			422	1.25	1.68	102	5.08	-.27		
043	32.25	.28	<u>Total Phosphate</u>			<u>Soluble Potash</u>			479	0.86	.32	043	5.07	-.28		
450	32.12	.27	Spectrometric			ICP (Oxalate)			389	0.83	.20	055	5.07	-.37		
028	32.15	.27	479	5.12	.68	422	0.38	1.25	354	0.77 R	.16	254	5.00	-.43		
090	32.24	.26	232	4.94	.61	Avg	0.18		009	0.80	.10	073	4.86	-.79		
255	32.24	.25	Avg	3.40		420	0.15	-1.29	131	0.79	.07	231	4.80	-.87		
234	32.21	.23	420	0.15	-1.29	Meth: 050.99 PCT			Avg	0.77		230	4.76	-.95		
037	32.20	.21	Meth: 020.50 PCT			<u>Soluble Potash</u>			232	0.74	-.10	Meth: 144.02 PCT				
275	32.19	.18	<u>Total Phosphate</u>			Other			041	0.73	-.17	<u>Sulfur</u>				
231	32.20	.17	ICP			479	0.18	.89	420	0.16	-2.12	Gravimetric				
232	32.19	.17	422	5.44	.71	232	0.14	.41	Meth: 121.30 PCT			292	12.25	.87		
136	32.15	.09	Meth: 020.XX PCT			Avg			0.11			Avg	8.87			
Avg	32.10		<u>Total Phosphate</u>			325			0.00	-1.24	Acid Soluble Magnesi			200	5.48 X	-.87
351	32.05	-.15	422	5.44	.66	Meth: 050.XX PCT			131	3.05	1.94	Meth: 144.99 PCT				
102	32.03	-.15	479	5.12	.52	<u>Soluble Potash</u>			090	3.04	1.94	<u>Sulfur</u>				
041	32.06	-.15	232	4.94	.44	422	0.38	1.74	Avg	0.85		Other				
035	31.98	-.24	Avg	3.91		479	0.18 R	.38	422	0.47	-.34	157	13.60	.87		
162	32.01	-.26	420	0.15	-1.61	422	0.38	1.74	041	0.40	-.40	117	13.60	.87		
307	32.07	-.39	Meth: 030.50 PCT			479			0.18 R	.38	479	0.31	-.48	291	13.38	.80
177	31.90	-.41	<u>Insoluble Phosphate</u>			232			0.14	.07	389	0.30	-.48	377	13.20	.75
389	31.85	-.47	ICP			Avg			0.13		009	0.29	-.49	049	13.09	.71
185	31.82	-.56	479	0.28	-.71	354	0.12	-.12	354	0.29	-.49	037	12.94	.67		
255	32.03	-.59	Meth: 030.50 PCT			Meth: 050.99 PCT			232	0.28	-.50	479	12.93	.66		
393	31.70	-.74	<u>Insoluble Phosphate</u>			<u>Soluble Potash</u>			422	0.38	1.74					
230	31.70	-.91	ICP			422			0.38	1.74						
095	31.50	-1.11	479			0.18 R			.38							

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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: 190.00 PCT			Meth: 241.30 PCT		
<u>Sulfur</u>			<u>Sulfur</u>			<u>Arsenic</u>			<u>Water Soluble Chlori</u>			<u>Acid Soluble Iron</u>		
<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>Titrimetric</u>			<u>ICP</u>		
090	12.88	.65	232	12.54	.87	393	5.55	-1.39	422	0.01	.00	432	2.41	.91
351	12.82	.63	137	12.54	.87							009	2.44	.78
422	12.69	.59	368	12.34	.82	Meth: 165.00 PCT			Meth: 191.30 PPM			035	2.44	.77
023	12.66	.58	292	12.25	.79	Acid Soluble Boron			Chromium			354	2.37	.70
009	12.55	.54	247	12.03 R	.74	<u>Spectrometric</u>			<u>ICP</u>			232	2.41	.65
232	12.54	.54	389	12.00	.73	393 0.315 .71			009 546.05 R 2.28			422	2.38	.52
137	12.54	.54	450	11.68	.64	Meth: 165.99 PCT			102 516.68 1.20			479	2.34	.50
368	12.34	.48	231	11.62	.63	Acid Soluble Boron			037 492.16 .42			131	2.29	.16
247	12.03	.39	255	10.77	.40	<u>Other</u>			Avg 478.37			Avg 2.28		
389	12.00	.37	114	9.98 R	.20	354 0.341 R 2.90			232 470.15 -.26			041 2.21 -.59		
450	11.68	.27	Avg 9.26			422 0.305 1.35			393 434.50 -1.34			102 2.20 -1.00		
231	11.62	.25	035 8.82 -.12			232 0.273 .17			Meth: 202.30 PPM			389 2.05 -1.13		
Avg 10.80			360 7.26 -.53			Avg 0.269			Acid Soluble Cobalt			393 1.80 -2.32		
255 10.77 -.02			029 6.31 -.78			009 0.261 -.31			<u>ICP</u>			420 0.20 s -10.14		
035 8.82 -.62			296 5.84 -.91			389 0.235 -1.25			009 99.18 1.92			Meth: 251.30 PPM		
360 7.26 -1.10			200 5.48 X -1.00			Meth: 165.XX PCT			102 76.79 .31			Lead		
330 5.05 -1.78			095 5.32 -1.04			<u>Acid Soluble Boron</u>			Avg 73.56			<u>ICP</u>		
027 4.89 -1.83			324 5.11 -1.10			354 0.341 1.36			037 71.16 -.18			102 648.15 1.69		
230 4.61 -1.92			102 5.08 -1.11			393 0.315 1.27			232 70.70 -.25			009 563.35 .25		
307 4.57 -1.93			043 5.07 -1.11			422 0.305 .39			393 63.50 -.76			Avg 556.75		
354 4.54 -1.94			330 5.05 -1.12			Avg 0.288			422 60.00 -1.02			037 528.73 -.53		
Meth: 144.XX PCT			254 5.00 -1.13			232 0.273 -.33			Meth: 221.30 PCT			232 539.00 -.62		
<u>Sulfur</u>			027 4.89 -1.16			009 0.261 -.60			Acid Soluble Copper			393 504.50 -.96		
470 14.77 1.46			073 4.86 -1.17			389 0.235 -1.18			<u>ICP</u>			Meth: 261.30 PCT		
157 13.60 1.15			231 4.80 -1.18			Meth: 181.30 PPM			035 0.4425 1.47			Acid Soluble Manganese		
117 13.60 1.15			230 4.76 -1.19			Cadmium			041 0.4370 1.34			<u>ICP</u>		
291 13.38 1.09			230 4.61 R -1.24			<u>ICP</u>			354 0.4075 R 1.08			420 2.160 s 4.34		
377 13.20 1.05			307 4.57 -1.24			037 264.66 1.01			102 0.4175 .67			102 1.873 1.33		
049 13.09 1.02			354 4.54 -1.25			102 257.84 .68			422 0.4000 .08			035 1.865 1.23		
037 12.94 R .98			Meth: 151.30 PPM			009 255.75 .60			Avg 0.3977			009 1.797 .67		
479 12.93 .97			Arsenic			Avg 244.31			232 0.3850 -.42			422 1.757 .10		
090 12.88 .96			<u>ICP</u>			232 226.80 -.88			009 0.3808 -.57			Avg 1.748		
351 12.82 .95			037 12.55 1.08			393 216.50 -1.38			479 0.3900 -.70			131 1.740 -.43		
422 12.69 .91			102 10.92 .62			Meth: 181.30 PPM			420 0.3750 -.89			232 1.692 -.60		
023 12.66 .90			Avg 9.50			Cadmium			393 0.3517 -1.51			041 1.645 -1.10		
009 12.55 .87			009 9.00 -.18			<u>ICP</u>								
			Meth: 151.30 PPM			037 264.66 1.01								
			Arsenic			102 257.84 .68								
			<u>ICP</u>			009 255.75 .60								
			037 12.55 1.08			Avg 244.31								
			102 10.92 .62			232 226.80 -.88								
			Avg 9.50			393 216.50 -1.38								
			009 9.00 -.18											

* 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: 261.30 PCT			Meth: 289.30 PPM			Meth: 311.99 PCT			Meth: 321.30 PCT			Meth: 321.XX PCT		
Acid Soluble Manganese			Molybdenum			Sodium			Acid Soluble Zinc			Acid Soluble Zinc		
<u>ICP</u>			<u>ICP</u>			<u>Other</u>			<u>ICP</u>					
354	1.617	-1.42	102	354.43	.60	479	0.70 R	2.68	027	35.620	.37	254	43.435 A	4.06
			009	343.45	.52	422	0.70	.99	023	35.825	.36	049	42.240 R	3.55
Meth: 261.99 PCT			037 331.29 .42			009 0.68 .31			433 35.845 .35			117 38.750 1.85		
Acid Soluble Manganese			232 330.95 .42			Avg 0.67			450 35.230 .30			389 38.200 1.55		
<u>Other</u>			393 296.50 .16			232 0.64 -1.20			377 35.500 .18			200 37.995 X 1.45		
393	1.476	.71	Avg 276.11						095 35.170 .06			291 37.565 1.24		
			422	0.03	-2.12	Meth: 321.00 PCT			Avg 35.162			231 37.500 1.22		
Meth: 261.XX PCT			Meth: 291.30 PPM			Acid Soluble Zinc			324 35.150 -.08			102 37.127 1.12		
Acid Soluble Manganese			Nickel			<u>Atomic Absorption</u>			360 34.770 -.21			114 36.850 .93		
420	2.160	2.20	<u>ICP</u>			254 43.435 2.16			009 34.775 -.24			042 36.850 .91		
102	1.873	.63	009 1523.5 1.22			029 35.956 .26			230 34.550 -.31			422 36.775 .87		
035	1.865	.57	102 1473.6 .81			Avg 35.045			247 34.415 -.38			137 36.390 .68		
009	1.797	.30	037 1380.6 .21			177 34.420 -.16			432 34.425 -.42			479 36.175 .59		
Avg	1.762		Avg 1373.2			040 34.305 -.27			090 34.200 -.49			029 35.956 .51		
422	1.757	-.03	232 1257.5 -.99			351 33.670 -.36			037 33.890 -.65			073 35.950 .47		
131	1.740	-.25	393 1231.0 -1.15			043 32.600 -.63			368 33.725 -.74			023 35.825 .43		
232	1.692	-.39				296 30.930 -1.06			232 33.480 -.85			433 35.845 .42		
041	1.645	-.65							157 33.650 -.86			027 35.620 .41		
354	1.617	-.82	Meth: 301.30 PPM			Meth: 321.10 PCT			131 33.390 -1.04			450 35.230 .31		
393	1.476	-1.59	Selenium			Acid Soluble Zinc			055 32.775 -1.21			377 35.500 .26		
			<u>ICP</u>			<u>Gravimetric</u>			420 32.475 -1.36			324 35.150 .11		
Meth: 281.00 PPM			037 14.41 .87			200 37.995 X -0.71			354 33.043 R -1.43			095 35.170 .11		
Mercury			Avg 12.85						255 31.811 -1.70			470 35.090 .05		
<u>Atomic Absorption</u>			393 11.29 -.86			Meth: 321.30 PCT			307 30.733 -2.25			Avg 34.977		
232	0.77	.71	Meth: 301.99 PPM			Acid Soluble Zinc			330 18.900 s -8.25			360 34.770 -.11		
			Selenium			<u>ICP</u>			035 3.705 s -15.95			009 34.775 -.16		
Meth: 281.30 PPM			049 42.240 s 3.66			049 42.240 s 3.66						230 34.550 -.21		
Mercury			292 38.900 1.89			292 38.900 1.89			Meth: 321.99 PCT			177 34.420 -.27		
<u>ICP</u>			117 38.750 1.86			117 38.750 1.86			Acid Soluble Zinc			247 34.415 -.27		
393	0.02	-.71	389 38.200 1.54			389 38.200 1.54			<u>Other</u>			432 34.425 -.32		
			291 37.565 1.22			291 37.565 1.22			042 36.850 .80			090 34.200 -.38		
Meth: 281.XX PPM			231 37.500 1.19			231 37.500 1.19			137 36.390 .62			040 34.305 -.47		
Mercury			102 37.127 1.09			102 37.127 1.09			470 35.090 .13			037 33.890 -.53		
232	0.77	.87	114 36.850 .90			114 36.850 .90			Avg 34.739			368 33.725 -.61		
Avg	0.39		422 36.775 .82			422 36.775 .82			041 30.625 -1.57			351 33.670 -.63		
393	0.02	-.87	479 36.175 .53			479 36.175 .53						232 33.480 -.72		
			102 5.75 -1.25			102 5.75 -1.25						157 33.650 -.73		
			073 35.950 .40			073 35.950 .40								

* 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>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
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Meth: 321.XX PCT

Acid Soluble Zinc

131	33.390	-.91
055	32.775	-1.06
043	32.600	-1.15
420	32.475	-1.20
354	33.043 R	-1.29
255	31.811	-1.53
296	30.930	-1.95
307	30.733	-2.04
041	30.625	-2.12
330	18.900 s	-7.72
035	3.705 s	-15.02

Meth: 325.30 PCT

Water Soluble Zinc

ICP

393	35.530	.87
Avg	19.910	
479	4.290	-.87

Meth: 325.99 PCT

Water Soluble Zinc

Other

450	35.230	.82
Avg	34.440	
157	33.650	-.91

Meth: 325.XX PCT

Water Soluble Zinc

393	35.530	.59
450	35.230	.57
157	33.650	.46
Avg	27.175	
479	4.290	-1.62

* 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	6	- 0.25	1.13	0.08	202.30	6	0.00	1.04	0.10
001.99	7	1.99	5.36	0.02	202.XX	6	0.00	1.04	0.10
001.XX	13	1.27	4.87	0.04	221.30	10	0.0322	0.9276	0.4381
002.99	6	- 0.03	0.95	0.18	221.XX	10	0.0322	0.9276	0.4381
002.XX	7	- 0.07	0.97	0.05	241.30	13	- 0.78	2.95	0.40
008.10	2	0.00	1.22	0.04	241.XX	13	- 0.78	2.95	0.40
008.XX	2	0.00	1.22	0.04	251.30	5	0.00	1.01	0.28
009.10	2	0.00	1.21	0.15	251.XX	5	0.00	1.01	0.28
009.XX	2	0.00	1.21	0.15	261.30	9	0.482	1.720	0.248
010.11	4	0.00	1.08	0.03	261.XX	10	0.000	1.019	0.124
010.12	4	0.00	0.89	0.53	281.XX	2	0.000	1.225	0.005
010.60	54	- 0.28	1.71	0.46	289.30	6	0.00	1.05	0.04
010.99	2	0.00	0.87	0.61	289.XX	6	0.00	1.05	0.04
010.XX	64	- 0.14	1.45	0.30	291.30	5	0.00	1.04	0.20
020.20	3	0.00	1.12	0.03	291.XX	5	0.00	1.04	0.20
020.XX	4	0.00	1.08	0.03	301.30	2	0.00	1.21	0.12
041.50	2	0.00	1.22	0.10	301.XX	3	0.00	1.05	0.30
041.XX	2	0.00	1.22	0.10	311.99	4	0.24	1.02	1.26
050.50	3	0.00	1.12	0.04	311.XX	4	0.24	1.02	1.26
050.99	3	0.00	1.09	0.20	321.00	7	0.000	1.036	0.090
050.XX	6	0.05	0.96	0.09	321.30	36	- 0.602	3.178	0.272
060.00	2	0.00	1.21	0.15	321.99	4	0.000	1.065	0.154
060.XX	2	0.00	1.21	0.15	321.XX	48	- 0.336	2.730	0.239
101.30	10	6.73	21.30	0.26	325.30	2	0.000	1.225	0.005
101.XX	10	6.73	21.30	0.26	325.99	2	0.000	0.931	0.562
121.30	10	0.00	1.03	0.01	325.XX	3	0.539	0.071	0.039
121.XX	10	0.00	1.03	0.01					
144.01	13	2.38	6.25	0.20					
144.02	2	0.00	1.22	0.01					
144.99	27	0.00	1.01	0.04					
144.XX	40	0.05	0.98	0.15					
151.30	4	0.00	1.05	0.21					
151.XX	4	0.00	1.05	0.21					
165.99	5	0.528	1.498	0.551					
165.XX	6	0.000	0.857	0.552					
181.30	5	0.00	1.05	0.15					
181.XX	5	0.00	1.05	0.15					
191.30	5	0.41	1.31	0.45					
191.XX	5	0.41	1.31	0.45					