

- Pass 1 Results for 88 Labs - - Pass 2 Results for 87 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	8	2.71	0.12	0.09	7	2.72	0.10	0.04
Ammoniacal Nitrogen, Other		001.99	8	2.76	0.16	0.05	8	2.76	0.16	0.05
Method Group 001.XX PCT			16	2.74	0.14	0.07	15	2.74	0.14	0.04
Nitrate Nitrogen, Other		002.99	1	0.06	0.00	0.00	1	0.06	0.00	0.00
Water Insoluble Nitrogen, Meth I	945.01	003.10	2	2.47	0.03	0.04	2	2.47	0.03	0.04
Water Insoluble Nitrogen, Other		003.99	3	2.52	0.12	0.02	3	2.52	0.12	0.02
Method Group 003.XX PCT			5	2.50	0.09	0.03	5	2.50	0.09	0.03
Nitrogen From Urea, Urease (as N)	959.03	005.00	2	3.97	2.00	0.11	2	3.97	2.00	0.11
Nitrogen From Urea, Other		005.99	4	2.56	0.44	0.12	4	2.56	0.44	0.12
Method Group 005.XX PCT			6	3.03	1.30	0.11	6	3.03	1.30	0.11
Percent Urea, Urease (as Urea)	959.03	007.00	1	2.20	0.07	0.10	1	2.20	0.07	0.10
Ammon & Nitrate N, Devarda	892.01	009.10	1	2.92	0.11	0.15	1	2.92	0.11	0.15
Total Nitrogen, Modified Comprehensive	978.02	010.11	9	8.55	0.14	0.02	9	8.55	0.14	0.02
Total Nitrogen, Salicylic	955.04D	010.12	4	8.65	0.12	0.12	4	8.65	0.12	0.12
Total Nitrogen, Combustion		010.60	56	8.64	0.16	0.09	54	8.64	0.15	0.08
Total Nitrogen, Other		010.99	5	8.63	0.09	0.07	5	8.63	0.09	0.07
Method Group 010.XX PCT			75	8.63	0.16	0.09	71	8.62	0.15	0.07
Total Phosphate, Grav Quimociac	962.02	020.10	2	1.21	0.13	0.18	2	1.21	0.13	0.18
Total Phosphate, Spectrometric	958.01	020.20	3	1.27	0.22	0.05	3	1.27	0.22	0.05
Total Phosphate, Automated	978.01	020.40	1	1.13	0.01	0.01	1	1.13	0.01	0.01
Total Phosphate, ICP		020.50	7	1.17	0.16	0.03	6	1.12	0.08	0.01
Method Group 020.XX PCT			13	1.20	0.16	0.05	12	1.19	0.16	0.03
Insoluble Phosphate, ICP		030.50	1	0.07	0.04	0.06	1	0.07	0.04	0.06
InDir Available Phosphate, Other		040.99	2	1.14	0.09	0.07	2	1.14	0.09	0.07
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	2	1.13	0.04	0.03	2	1.13	0.04	0.03
Dir Available Phosphate, ICP		041.50	6	1.08	0.05	0.01	6	1.08	0.05	0.01
Dir Available Phosphate, EDTA Extract	993.01	041.60	1	1.00	0.09	0.13	1	1.00	0.09	0.13
Dir Available Phosphate, Other		041.99	1	1.09	0.06	0.09	1	1.09	0.06	0.09
Method Group 041.XX PCT			10	1.08	0.06	0.04	9	1.09	0.05	0.02
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	0.67	0.03	0.05	2	0.67	0.03	0.05
Soluble Potash, STPB Oxalate	958.02	050.00	10	3.57	0.21	0.04	10	3.57	0.21	0.04
Soluble Potash, STPB Citrate	969.04	050.10	1	3.40	0.00	0.00	1	3.40	0.00	0.00
Soluble Potash, AA (Oxalate)		050.30	6	3.54	0.16	0.12	5	3.53	0.13	0.04
Soluble Potash, AA (Citrate)		050.31	2	3.82	0.29	0.10	2	3.82	0.29	0.10
Soluble Potash, ICP (Oxalate)		050.50	6	3.47	0.11	0.03	5	3.47	0.12	0.02
Soluble Potash, ICP (Citrate)		050.51	12	3.68	0.22	0.08	11	3.66	0.20	0.05
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	6	3.45	0.20	0.05	6	3.45	0.20	0.05
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	6	3.54	0.32	0.06	6	3.54	0.32	0.06
Soluble Potash, Other		050.99	21	3.56	0.15	0.09	20	3.55	0.14	0.07

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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 050.XX PCT			70	3.57	0.21	0.07	65	3.55	0.19	0.05
Free Water, Vacuum Oven	965.08B	060.00	3	1.80	1.74	0.09	3	1.80	1.74	0.09
Acid Soluble Calcium, AA	945.04	101.00	1	15.60	0.57	0.80	1	15.60	0.57	0.80
Acid Soluble Calcium, ICP		101.30	13	15.78	0.62	0.31	13	15.78	0.62	0.31
Acid Soluble Calcium, Other		101.99	1	15.48	1.13	1.60	1	15.48	1.13	1.60
Method Group 101.XX PCT			15	15.75	0.63	0.43	14	15.76	0.61	0.34
Acid Soluble Magnesium, AA	984.01	121.00	1	5.94	0.38	0.54	1	5.94	0.38	0.54
Acid Soluble Magnesium, ICP		121.30	12	5.70	0.31	0.10	12	5.70	0.31	0.10
Acid Soluble Magnesium, Other		121.99	1	5.50	0.38	0.54	1	5.50	0.38	0.54
Method Group 121.XX PCT			14	5.70	0.32	0.16	12	5.70	0.31	0.10
Sulfur, Gravimetric	980.02a	144.01	15	3.36	0.23	0.07	15	3.36	0.23	0.07
Sulfur, Gravimetric	980.02b	144.02	1	3.62	0.01	0.02	1	3.62	0.01	0.02
Sulfur, Other		144.99	31	3.28	0.30	0.06	31	3.30	0.33	0.06
Method Group 144.XX PCT			47	3.31	0.28	0.07	48	3.31	0.32	0.06
Arsenic, Atomic Absorption		151.00	1	1.20	0.00	0.00	1	1.20	0.00	0.00
Arsenic, ICP		151.30	3	2.54	1.91	0.21	3	2.54	1.91	0.21
Arsenic, Other		151.99	1	14.90	1.49	2.11	1	14.90	1.49	2.11
Method Group 151.XX PPM			5	4.74	5.59	0.55	4	2.21	1.73	0.16
Acid Soluble Boron, Spectrometric	982.01	165.00	2	0.006	0.009	0.010	2	0.006	0.009	0.010
Acid Soluble Boron, Other		165.99	3	0.008	0.010	0.003	3	0.008	0.010	0.003
Method Group 165.XX PCT			5	0.007	0.009	0.006	4	0.007	0.009	0.002
Cadmium, ICP		181.30	8	0.85	0.61	0.11	7	0.88	0.64	0.06
Cadmium, Other		181.99	1	0.72	0.01	0.02	1	0.72	0.01	0.02
Method Group 181.XX PPM			9	0.84	0.57	0.10	8	0.86	0.60	0.05
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	7	2.23	0.16	0.05	6	2.27	0.11	0.03
Water Soluble Chlorine, Other		190.99	2	1.99	0.33	0.09	2	1.99	0.33	0.09
Method Group 190.XX PCT			9	2.17	0.22	0.06	9	2.17	0.22	0.06
Chromium, Atomic Absorption		191.00	1	55.01	2.43	3.43	1	55.01	2.43	3.43
Chromium, ICP		191.30	10	278.72	60.52	20.30	9	277.41	62.31	13.55
Chromium, Other		191.99	1	242.24	1.65	2.33	1	242.24	1.65	2.33
Method Group 191.XX PPM			13	249.33	92.20	35.79	12	257.04	83.69	17.39
Acid Soluble Cobalt, AA		202.00	1	33.50	0.71	1.00	1	33.50	0.71	1.00
Acid Soluble Cobalt, ICP	965.11	202.30	13	27.63	6.67	2.08	12	27.08	6.57	1.68
Method Group 202.XX PPM			14	28.05	6.60	2.00	13	27.57	6.54	1.63
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0.0041	0.0007	0.0004	3	0.0041	0.0007	0.0004
Acid Soluble Copper, ICP		221.30	19	0.0045	0.0009	0.0003	17	0.0045	0.0007	0.0001
Acid Soluble Copper, Other		221.99	2	0.0047	0.0003	0.0003	2	0.0047	0.0003	0.0003
Method Group 221.XX PCT			24	0.0045	0.0008	0.0003	22	0.0044	0.0008	0.0002
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	10	1.91	0.06	0.04	10	1.91	0.06	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
Acid Soluble Iron, ICP		241.30	34	1.83	0.24	0.07	32	1.83	0.24	0.05
Acid Soluble Iron, Other		241.99	5	1.86	0.38	0.12	5	1.86	0.38	0.12
Method Group 241.XX PCT			50	1.84	0.25	0.07	46	1.83	0.24	0.05
Lead, ICP		251.30	5	5.73	7.22	0.15	4	5.70	8.18	0.06
Lead, Other		251.99	1	4.29	0.10	0.15	1	4.29	0.10	0.15
Method Group 251.XX PPM			6	5.49	6.55	0.15	5	5.42	7.24	0.08
Acid Soluble Manganese, AA	972.02a	261.00	2	0.034	0.005	0.003	2	0.034	0.005	0.003
Acid Soluble Manganese, ICP	972.02a	261.30	12	0.032	0.003	0.001	11	0.032	0.003	0.001
Acid Soluble Manganese, Other		261.99	2	0.032	0.002	0.003	2	0.032	0.002	0.003
Method Group 261.XX PCT			16	0.033	0.003	0.001	14	0.032	0.003	0.001
Mercury, ICP		281.30	2	0.60	0.68	0.11	2	0.60	0.68	0.11
Mercury, Other		281.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 281.XX PPM			3	0.40	0.61	0.07	3	0.40	0.61	0.07
Molybdenum, ICP		289.30	15	28.80	4.62	1.75	14	28.63	4.65	1.40
Method Group 289.XX PPM			15	28.80	4.62	1.75	14	28.63	4.65	1.40
Nickel, Atomic Absorption		291.00	1	161.00	1.41	2.00	1	161.00	1.41	2.00
Nickel, ICP		291.30	14	139.02	46.99	9.44	13	137.83	48.24	6.86
Nickel, Other		291.99	1	172.94	4.80	6.78	1	172.94	4.80	6.78
Method Group 291.XX PPM			16	142.52	44.90	8.81	15	141.72	45.97	6.53
Selenium, ICP		301.30	2	1.03	0.48	0.23	2	1.03	0.48	0.23
Sodium, Other		311.99	7	0.08	0.02	0.00	7	0.08	0.02	0.00
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	2	0.003	0.001	0.000	2	0.003	0.001	0.000
Acid Soluble Zinc, ICP		321.30	16	0.002	0.001	0.000	15	0.002	0.001	0.000
Acid Soluble Zinc, Other		321.99	2	0.003	0.000	0.000	2	0.003	0.000	0.000
Method Group 321.XX PCT			21	0.002	0.001	0.000	20	0.002	0.001	0.000
Water Soluble Zinc, ICP		325.30	1	0.002	0.000	0.000	1	0.002	0.000	0.000
Water Soluble Zinc, Other		325.99	1	0.002	0.000	0.000	1	0.002	0.000	0.000
Method Group 325.XX PCT			2	0.002	0.000	0.000	2	0.002	0.000	0.000

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: 005.00 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>Urease (as N)</u>			<u>Modified Comprehensi</u>			<u>Combustion</u>					
258	2.86	1.47	090	2.70	-.32	481	5.70	.87	470	8.90	2.50	022	8.75	.81
481	2.83	1.27	456	2.69	-.36	Avg	3.97		211	8.58	.24	451	8.75	.74
397	2.72	.21	475	2.67	-.54	232	2.23	-.87	090	8.57	.22	488	8.70	.72
Avg	2.72		255	2.65	-.63	Meth: 005.99 PCT			Avg	8.55		131	8.74	.68
090	2.70	-.21	444	2.64	-.76	<u>Nitrogen From Urea</u>			137	8.54	-.09	029	8.73	.64
456	2.69	-.28	027	2.64	-.79	<u>Other</u>			105	8.54	-.15	055	8.73	.63
444	2.64	-.84	096	2.61	-.97	309	3.15	1.39	371	8.48	-.47	490	8.73	.60
232	2.59	-1.35	232	2.59	-1.12	029	2.63	.20	456	8.48	-.49	043	8.68	.54
309	2.70 R	-2.08	309	2.70 R	-1.49	Avg	2.56		255	8.43	-.82	360	8.68	.53
Meth: 001.99 PCT			Meth: 002.99 PCT			Meth: 005.XX PCT			Meth: 010.12 PCT					
<u>Ammoniacal Nitrogen</u>			<u>Nitrate Nitrogen</u>			<u>Nitrogen From Urea</u>			<u>Total Nitrogen</u>					
<u>Other</u>			<u>Other</u>			<u>Salicylic</u>								
393	4.28 S	9.21	481	0.06	.00	254	10.35 S	14.19	262	8.67	.45	292	8.71	.45
493	3.75 S	6.03	Meth: 003.10 PCT			397	8.71	1.60	354	8.66	.37	247	8.69	.36
169	3.11	2.11	<u>Water Insoluble Nitr</u>			351	8.68	.33	275	8.65	.22	389	8.65	.34
489	2.90	.83	<u>Meth I</u>			117	8.65	.09	483	8.66	.15	324	8.65	.34
Avg	2.76		090	2.49	1.14	Avg	3.03		157	8.68	.25	157	8.68	.25
479	2.75	-.12	Avg	2.47		029	2.63	-.31	275	8.65	.22	275	8.65	.22
420	2.76	-.39	029	2.46	-.46	475	2.43	-.46	185	8.54	-.92	483	8.66	.15
475	2.67	-.56	Meth: 003.99 PCT			232	2.23	-.61	Meth: 010.60 PCT					
255	2.65	-.64	<u>Water Insoluble Nitr</u>			027	2.04	-.76	<u>Total Nitrogen</u>					
027	2.64	-.78	<u>Other</u>			Meth: 007.00 PCT			<u>Combustion</u>					
096	2.61	-.93	475	2.65	1.15	<u>Percent Urea</u>			049	11.88 s	29.27	402	8.59	-.28
Meth: 001.XX PCT			Avg	2.52		<u>Urease (as Urea)</u>			393	10.10 s	9.57	023	8.61	-.30
<u>Ammoniacal Nitrogen</u>			027	2.51	-.10	486	2.20	-.71	479	9.18 s	3.66	405	8.59	-.35
393	4.28 s	11.24	486	2.39	-1.08	Meth: 009.10 PCT			102	8.94 s	3.24	233	8.59	-.48
493	3.75 s	7.41	Meth: 003.XX PCT			<u>Ammon & Nitrate N</u>			040	8.90	1.73	096	8.55	-.58
169	3.11	2.69	<u>Water Insoluble Nitr</u>			<u>Devarda</u>			330	8.90	1.73	086	8.60	-.59
489	2.90	1.15	475	2.65	1.65	444	2.92	.71	291	8.89	1.63	260	8.59	-.66
258	2.86	.88	027	2.51	.16	Meth: 010.11 PCT			307	8.87	1.63	443	8.55	-.66
481	2.83	.75	Avg	2.50		<u>Total Nitrogen</u>			025	8.88	1.60	450	8.55	-.66
420	2.76	.49	090	2.49	-.41	<u>Modified Comprehensi</u>			073	8.86	1.52	230	8.57	-.68
479	2.75	.12	029	2.46	-.43	309	8.85 s	2.78	007	8.85	1.44	232	8.53	-.75
Avg	2.74		486	2.39	-1.18				377	8.66 R	1.23	136	8.51	-.83
397	2.72	-.20							489	8.78	.92	057	8.52	-.88

* 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: 010.60 PCT			Meth: 010.XX PCT			Meth: 010.XX PCT			Meth: 020.10 PCT			Meth: 020.XX PCT		
Total Nitrogen			Total Nitrogen			Total Nitrogen			Total Phosphate			Total Phosphate		
<u>Combustion</u>									<u>Grav Quimociac</u>					
105	8.59	-.89	330	8.90	1.88	402	8.59	-.20	262	1.25	1.17	483	1.25	.32
041	8.52	-.93	040	8.90	1.88	023	8.61	-.28	Avg	1.21		Avg	1.19	
255	8.51	-.96	291	8.89	1.77	405	8.59	-.28	105	1.17	-.38	232	1.19	-.06
420	8.49	-.97	307	8.87	1.77	211	8.58	-.30	Meth: 020.20 PCT			105	1.17	-.23
095	8.50	-.98	025	8.88	1.74	231	8.58	-.33	Total Phosphate			479	1.15	-.29
042	8.45	-1.23	073	8.86	1.66	420	8.57	-.37	<u>Spectrometric</u>			105	1.13	-.41
034	8.43	-1.52	007	8.85	1.57	090	8.57	-.44	292	1.55	1.24	402	1.12	-.44
472	8.37	-1.83	397	8.71 R	1.36	233	8.59	-.46	Avg	1.27		389	1.10	-.56
325	8.56 R	-1.95	377	8.66 R	1.29	096	8.55	-.52	232	1.19	-.38	307	1.09	-.63
035	8.31	-2.17	489	8.78	1.04	086	8.60	-.57	420	1.08	-.91	420	1.08	-.78
444	8.22	-2.74	022	8.75	.92	105	8.54	-.59	Meth: 020.40 PCT			490	1.00	-1.17
452	8.12 s	-3.54	493	8.75	.92	137	8.54	-.61	Total Phosphate			Meth: 030.50 PCT		
027	7.15 s	-12.80	451	8.75	.85	185	8.54	-.61	<u>Automated</u>			Insoluble Phosphate		
			488	8.70	.80	443	8.55	-.61	042	3.44 S	326.68	<u>ICP</u>		
			131	8.74	.79	450	8.55	-.61	105	1.13	.71	479	0.07	-.71
			029	8.73	.75	260	8.59	-.64	Avg			Meth: 040.99 PCT		
			055	8.73	.73	230	8.57	-.65	1.13			InDir Available Phos		
			490	8.73	.71	232	8.53	-.69	1.13			<u>Other</u>		
			043	8.68	.61	136	8.51	-.78	Meth: 020.50 PCT			488	1.21	.86
			360	8.68	.61	475	8.53	-.80	Total Phosphate			Avg	1.14	
			406	8.71	.59	057	8.52	-.85	<u>ICP</u>			479	1.08	-.87
			037	8.71	.58	105	8.59	-.89	482	1.50 R	4.96	Meth: 041.10 PCT		
			292	8.71	.55	041	8.52	-.89	483	1.25	1.66	Dir Available Phosph		
			262	8.67	.51	420	8.49	-.91	479	1.15	.37	<u>Grav Quimociac</u>		
			247	8.69	.45	255	8.51	-.92	402	1.12	.04	105	1.16	.98
			354	8.66	.43	095	8.50	-.94	Avg	1.12		Avg	1.13	
			351	8.68	.41	371	8.48	-.98	Meth: 020.XX PCT			185	1.10	-.73
			486	8.68	.39	456	8.48	-.99	Total Phosphate			Meth: 041.50 PCT		
			389	8.65	.38	042	8.45	-1.19	042	3.44 s	13.62	Dir Available Phosph		
			324	8.65	.38	255	8.43	-1.31	292	1.55	2.17	<u>ICP</u>		
			157	8.68	.35	114	8.41	-1.46	482	1.50	1.87	354	3.31 s	44.32
			275	8.65	.27	034	8.43	-1.50	262	1.25 R	.98	137	1.14	1.39
			483	8.66	.23	472	8.37	-1.82	Meth: 020.XX PCT			325	1.13	1.01
			117	8.65	.19	325	8.56 R	-1.99	Total Phosphate			Avg	1.08	
			482	8.64	.13	035	8.31	-2.16	042	3.44 s	13.62	Meth: 041.50 PCT		
			Avg	8.62		444	8.22	-2.75	292	1.55	2.17	Dir Available Phosph		
			177	8.62	-.04	452	8.12 s	-3.59	482	1.50	1.87	<u>ICP</u>		
			481	8.60	-.16	027	7.15 s	-13.19	262	1.25 R	.98	325	1.13	1.01

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 041.50 PCT			Meth: 050.00 PCT			Meth: 050.50 PCT			Meth: 050.61 PCT			Meth: 050.XX PCT		
Dir Available Phosph			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>ICP</u>			<u>STPB Oxalate</u>			<u>ICP (Oxalate)</u>			<u>Flame (Citrates)</u>					
025	1.07	-.13	258	5.00 s	6.85	292	3.67	1.67	095	4.19	2.00	258	5.00 s	7.74
007	1.07	-.25	114	4.54 S	4.65	055	3.48	.05	456	3.56	.14	322	4.56 s	5.39
393	1.05 X	-.43	022	3.95	1.83	Avg	3.47		Avg	3.54		114	4.54 s	5.29
377	1.00	-1.51	090	3.84	1.29	231	3.45	-.24	029	3.53	-.10	095	4.19 A	3.39
			489	3.78	.99	371	3.45	-.26	105	3.40	-.46	486	4.06	2.70
			Avg	3.57		324	3.45 R	-.46	035	3.33	-.67	254	4.06	2.70
Meth: 041.60 PCT			055			354			041			483		
Dir Available Phosph			211			157						022		
<u>EDTA Extract</u>			470									393		
105	1.00	-.71	049	3.47	-.52	Meth: 050.99 PCT			090			3.84		
			102	3.45	-.58	Soluble Potash			023			3.84		
Meth: 041.99 PCT			397			<u>ICP (Citrates)</u>			450			3.70 R		
Dir Available Phosph			057			486			322			402		
<u>Other</u>						483			450			157		
105	1.09	.71	Meth: 050.10 PCT			393			402			489		
			Soluble Potash			023			255			291		
			<u>STPB Citrate</u>			291			043			073		
			444			452			475			452		
						Avg			131			255		
			Meth: 050.30 PCT			377			247			043		
			Soluble Potash			096			360			475		
			<u>AA (Oxalate)</u>			007			476			292		
			157			043			490			131		
			073			389			027			232		
			Avg			137			300			406		
			136			Meth: 050.60 PCT			177			377		
			040			Soluble Potash			Avg			472		
			185			<u>Flame (Oxalate)</u>			451			247		
			351			406			325			360		
			262			169			307			476		
			Meth: 050.31 PCT			443			105			490		
			Soluble Potash			470			482			027		
			<u>AA (Citrates)</u>			Avg			025			456		
			254			105			487			169		
			Avg			309			481			300		
			472						484			055		
												096		

* 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: 050.XX PCT			Meth: 101.99 PCT			Meth: 121.30 PCT			Meth: 144.01 PCT				
<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>				
177	3.56	.05	262	2.25 s	-6.92	488	15.48	.71	354	5.55	-.52	041	3.53	.83		
Avg	3.55		484	0.03 s	-18.73	488	15.48	.71	ICP			095	3.46	.42		
136	3.53	-.15	Meth: 060.00 PCT			Meth: 101.XX PCT			131	5.52	-.60	489	3.40	.16		
029	3.53	-.19	Free Water			<u>Acid Soluble Calcium</u>			102	5.49	-.69	055	3.39	.11		
211	3.51	-.21	<u>Vacuum Oven</u>			035	19.20 s	5.63	022	5.45	-.80	Avg	3.36			
040	3.50	-.26	493	4.05	1.29	483	16.95	1.94	307	5.43	-.93	057	3.33	-.18		
443	3.50	-.32	Avg	1.80		232	16.47	1.23	389	5.41	-.94	043	3.31	-.36		
055	3.48	-.40	007	0.68	-.64	307	16.04	.84	479	2.98 s	-8.69	029	3.27	-.44		
470	3.48	-.40	456	0.67	-.65	057	16.20	.74	Meth: 121.99 PCT			324	3.25	-.53		
451	3.47	-.42	Meth: 101.00 PCT			482	16.00	.51	Acid Soluble Magnesi			102	3.24	-.54		
470	3.47	-.42	Acid Soluble Calcium			479	16.02	.48	<u>Other</u>			397	3.22	-.64		
049	3.47	-.47	<u>AA</u>			102	15.91	.36	488	5.50	.71	444	3.16	-.92		
043	3.45	-.53	105	15.60	.71	Avg	15.76		Meth: 121.XX PCT			371	3.14	-1.04		
102	3.45	-.53	Meth: 101.30 PCT			472	15.59	-.35	<u>Acid Soluble Magnesi</u>			481	3.12	-1.11		
371	3.45	-.54	Acid Soluble Calcium			131	15.44	-.54	483	6.40	2.24	262	2.56 s	-3.55		
231	3.45	-.55	<u>ICP</u>			420	15.41	-.58	232	6.04	1.16	Meth: 144.02 PCT				
105	3.45	-.58	035	19.20 s	5.50	105	15.60	-.71	105	5.94 R	1.16	<u>Sulfur</u>				
324	3.45	-.59	483	16.95	1.89	354	15.32	-.93	057	5.98	.95	<u>Gravimetric</u>				
185	3.45	-.59	232	16.47	1.18	389	14.95	-1.34	420	5.92	.71	292	3.62	-.71		
325	3.45	-.63	488	15.48 R	-1.39	488	15.48 R	-1.39	Avg	5.70		Meth: 144.99 PCT				
307	3.44	-.64	022	14.82	-1.56	022	14.82	-1.56	482	5.67	-.16	<u>Sulfur</u>				
389	3.43	-.67	Meth: 121.00 PCT			Meth: 121.00 PCT			035	5.56	-.47	Other				
351	3.42	-.70	Acid Soluble Magnesi			Acid Soluble Magnesi			354	5.55	-.52	275	4.12 s	2.47		
105	3.46	-.71	<u>AA</u>			<u>AA</u>			131	5.52	-.60	482	3.97	2.00		
444	3.40	-.79	105	5.94	.71	105	5.94	.71	102	5.49	-.69	157	3.78	1.44		
105	3.40	-.82	Meth: 121.30 PCT			Meth: 121.30 PCT			022	5.45	-.80	483	3.75	1.34		
482	3.40	-.83	Acid Soluble Magnesi			Acid Soluble Magnesi			307	5.43	-.93	035	3.53	.69		
137	3.39	-.88	<u>ICP</u>			<u>ICP</u>			389	5.41	-.94	023	3.47	.51		
025	3.36	-1.03	483	6.40	2.24	483	6.40	2.24	488	5.50 R	-1.07	232	3.45	.50		
397	3.36	-1.04	232	6.04	1.16	232	6.04	1.16	479	2.98 s	-8.69	037	3.46	.48		
035	3.33	-1.18	057	5.98	.95	057	5.98	.95	Meth: 144.01 PCT			488	3.33 R	.48		
354	3.32	-1.20	420	5.92	.71	420	5.92	.71	<u>Sulfur</u>			102	3.45	.45		
057	3.32	-1.25	Avg	5.70		Avg	5.70		<u>Gravimetric</u>			479	3.38	.34		
041	3.26	-1.56	482	5.67	-.16	482	5.67	-.16	114	3.90	2.40	452	3.40	.32		
487	3.25	-1.59	035	5.56	-.47	035	5.56	-.47	157	3.77	1.82	307	3.34	.32		
309	3.05	-2.67														
157	3.06 s	-3.27														
481	2.73 s	-4.37														

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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: 151.00 PPM			Meth: 165.99 PCT			Meth: 181.XX PPM		
<u>Sulfur</u>			<u>Sulfur</u>			<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Cadmium</u>		
Other			095	3.46	.46	<u>Atomic Absorption</u>			Other			450	0.65 R	-.55
049	3.36	.21	102	3.45	.43	136	1.20	.00	232	0.001	-.69	452	0.35	-.86
354	3.36	.19	479	3.38	.33	Meth: 151.30 PPM			Meth: 165.XX PCT			095	0.28	-.98
255	3.35	.16	307	3.34	.32	<u>Arsenic</u>			<u>Acid Soluble Boron</u>			486	0.13	-1.22
300	3.34	.12	452	3.40	.31	<u>ICP</u>			354	0.020	1.63	Meth: 190.00 PCT		
450	3.31	.11	489	3.40	.27	247	5.00	1.29	105	0.010 R	1.23	Water Soluble Chlori		
Avg	3.28		055	3.39	.24	Avg	2.54		Avg	0.007		<u>Titrimetric</u>		
389	3.26	-.13	049	3.36	.19	450	1.35	-.64	483	0.003	-.46	055	2.45	1.56
472	3.27	-.14	354	3.36	.16	393	1.27	-.66	393	0.002	-.50	481	2.37	.83
231	3.27	-.18	255	3.35	.14	Meth: 151.99 PPM			232	0.001	-.61	Avg	2.27	
330	3.20	-.31	300	3.34	.09	<u>Arsenic</u>			Meth: 181.30 PPM			029	2.25	-.23
475	3.20	-.33	057	3.33	.04	<u>Other</u>			<u>Cadmium</u>			057	2.26	-.38
096	3.15	-.48	Avg	3.31		484	14.90	.71	393	1.82	1.46	102	2.17	-.91
291	3.15	-.48	450	3.31	-.11	Meth: 151.XX PPM			481	1.50	.96	043	2.15	-1.16
444	3.09	-.64	029	3.27	-.16	<u>Arsenic</u>			232	1.30	.67	Meth: 190.99 PCT		
351	3.09	-.65	389	3.26	-.17	484	14.90 R	7.36	Avg	0.88		Water Soluble Chlori		
027	3.03	-.84	472	3.27	-.17	247	5.00	1.61	247	0.80	-.13	<u>Other</u>		
025	2.85	-1.37	043	3.31	-.19	Avg	2.21		450	0.65 R	-.53	027	2.27	.88
486	2.74	-1.70	231	3.27	-.21	450	1.35	-.51	452	0.35	-.83	Avg	1.99	
393	2.72	-1.77	324	3.25	-.22	393	1.27	-.54	095	0.28	-.95	486	1.71	-.85
360	2.74 S	-1.86	102	3.24	-.23	136	1.20	-.58	486	0.13	-1.17	397	0.74 S	-3.76
490	2.60	-2.12	397	3.22	-.30	Meth: 165.00 PCT			Meth: 181.99 PPM			Meth: 190.XX PCT		
Meth: 144.XX PCT			330	3.20	-.36	<u>Acid Soluble Boron</u>			<u>Cadmium</u>			<u>Water Soluble Chlori</u>		
<u>Sulfur</u>			475	3.20	-.37	<u>Spectrometric</u>			<u>Other</u>			055	2.45	1.23
275	4.12 s	2.54	444	3.16	-.50	105	0.010	1.15	484	0.72	.71	481	2.37	.86
482	3.97	2.05	291	3.15	-.53	Avg	0.006		Meth: 181.XX PPM			027	2.27	.54
114	3.90	1.87	096	3.15	-.53	393	0.002	-.41	<u>Cadmium</u>			057	2.26	.43
157	3.78	1.47	371	3.14	-.59	Meth: 165.99 PCT			393	1.82	1.60	029	2.25	.34
157	3.77	1.45	481	3.12	-.63	<u>Acid Soluble Boron</u>			481	1.50	1.06	Avg	2.17	
483	3.75	1.36	444	3.09	-.71	<u>Other</u>			232	1.30	.75	102	2.17	-.01
292	3.62	.97	351	3.09	-.71	354	0.020	1.31	Avg	0.86		043	2.15	-.15
041	3.53	.74	027	3.03	-.90	Avg	0.008		247	0.80	-.10	444	1.96	-1.05
035	3.53	.68	025	2.85	-1.46	483	0.003	-.55	484	0.72	-.24	486	1.71	-2.13
023	3.47	.50	486	2.74	-1.81	Meth: 165.99 PCT			Meth: 181.99 PPM			397	0.74 s	-6.49
488	3.33 R	.49	393	2.72	-1.88	<u>Acid Soluble Boron</u>			<u>Cadmium</u>			Meth: 190.XX PCT		
232	3.45	.49	360	2.74 s	-1.97	<u>Other</u>			<u>Other</u>			<u>Water Soluble Chlori</u>		
037	3.46	.47	490	2.60	-2.24	393	2.72	-1.88	393	1.82	1.60	055	2.45	1.23
			262	2.56 s	-2.37	360	2.74 s	-1.97	481	1.50	1.06	481	2.37	.86
						490	2.60	-2.24	232	1.30	.75	027	2.27	.54
									Avg	0.86		057	2.26	.43
									484	0.72	-.24	029	2.25	.34
												Avg	2.17	
												102	2.17	-.01
												043	2.15	-.15
												444	1.96	-1.05
												486	1.71	-2.13
												397	0.74 s	-6.49

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 191.00 PPM Chromium			Meth: 191.XX PPM Chromium			Meth: 202.XX PPM Acid Soluble Cobalt			Meth: 221.30 PCT Acid Soluble Copper			Meth: 221.XX PCT Acid Soluble Copper		
<u>Atomic Absorption</u>			<u>AA</u>			<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>		
481	55.01	.71	393	156.83 R	-1.95	393	23.75	-.59	402	0.0040	-.83	452	0.0042	-.26
			481	55.01	-2.41	482	22.95	-.72	422	0.0040	-.83	402	0.0040	-.52
						102	21.71	-.90	022	0.0040	-.83	022	0.0040	-.52
Meth: 191.30 PPM Chromium			Meth: 202.00 PPM Acid Soluble Cobalt			232 21.25 -.97			433 0.0039 -.91			433 0.0039 -.59		
<u>ICP</u>			<u>AA</u>			049 19.79 -1.19			255 0.0027 -2.90			481 0.0033 -1.39		
037	350.08	1.21	136	33.50	.71	486	17.45	-1.55	483	0.0025 R	-3.25	255	0.0027	-2.28
035	290.50 R	.68				450	0.00 s	-4.22				483	0.0025	-2.58
096	319.00	.67	Meth: 202.30 PPM Acid Soluble Cobalt			Meth: 221.00 PCT Acid Soluble Copper			Meth: 221.99 PCT Acid Soluble Copper			Meth: 241.00 PCT Acid Soluble Iron		
450	309.00	.51	<u>ICP</u>			<u>Atomic Absorption</u>			<u>Other</u>			<u>Atomic Absorption</u>		
027	300.00	.36	095	35.67	1.31	262	0.0100 S	8.59	484	0.0048	.34	028	1.96	1.08
232	297.45	.35	057	34.85	1.24	105	0.0045	.93	Avg	0.0047		177	1.97	1.01
102	293.05	.25	096	35.03	1.23	043	0.0045	.59	488	0.0046	-1.18	397	1.95	.68
452	286.20	.15	035	34.30 R	1.22	Avg	0.0041					136	1.94	.60
Avg	277.41		452	32.03	.76	481	0.0033	-1.14	Meth: 221.XX PCT Acid Soluble Copper			351	1.94	.50
482	183.50	-1.52	037	31.16	.71				324	0.0144 s	13.10	Avg	1.91	
486	158.45	-1.91	255	29.30	.39	Meth: 221.30 PCT Acid Soluble Copper			262	0.0100 s	7.28	262	1.91	-.02
393	156.83 s	-2.83	Avg	27.08		<u>ICP</u>			472	0.0100 s	7.28	043	1.91	-.34
Meth: 191.99 PPM Chromium			393	23.75	-.51	324	0.0144 s	15.23	482	0.0100 s	7.28	105	1.91	-.61
<u>Other</u>			482	22.95	-.64	472	0.0100 s	8.36	354	0.0060 R	2.45	258	1.83	-1.40
484	242.24	.71	102	21.71	-.82	482	0.0100 s	8.36	096	0.0052	1.08	029	1.80	-1.95
Meth: 191.XX PPM Chromium			232	21.25	-.89	049	19.79	-1.11	247	0.0051	.92	481	1.25 s	-11.33
			049	19.79	-1.11	354	0.0060 R	2.71	232	0.0051	.92	Meth: 241.30 PCT Acid Soluble Iron		
			486	17.45	-1.47	096	0.0052	1.06	095	0.0051	.91	<u>ICP</u>		
			450	0.00 s	-4.12	232	0.0051	.87	049	0.0051	.87	300	4.05 s	9.25
			Meth: 202.XX PPM Acid Soluble Cobalt			247	0.0051	.87	393	0.0050	.82	035	2.28	1.87
			095	35.67	1.24	095	0.0051	.86	027	0.0050	.78	483	2.18	1.48
			057	34.85	1.17	049	0.0051	.81	105	0.0045 R	.66	486	2.15	1.35
			096	35.03	1.16	393	0.0050	.75	057	0.0048	.59	037	2.06 R	1.14
			035	34.30 R	1.15	027	0.0050	.70	488	0.0046	.47	102	2.08	1.05
			136	33.50	.91	057	0.0048	.52	484	0.0048	.46	041	2.04	.94
			452	32.03	.68	450	0.0047	.19	450	0.0047	.33	049	2.01	.81
			037	31.16	.65	102	0.0046	.08	102	0.0046	.20	027	2.02	.79
			255	29.30	.33	Avg	0.0045		043	0.0045	.18	055	2.00	.71
			Avg	27.57		389	0.0045	-.06	389	0.0045	.13	023	1.96	.60
						035	0.0043	-.45	Avg	0.0044				
						452	0.0042	-.52	035	0.0043	-.21			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 241.XX PCT			Meth: 251.XX PPM			Meth: 261.XX PCT		
Acid Soluble Iron			Acid Soluble Iron			Acid Soluble Iron			Lead			Acid Soluble Manganese		
ICP			300	4.05 s	9.21	307	1.70	-.53	450	1.40	-.55	105	0.037 R	2.21
057	1.94	.59	484	2.30 R	2.02	371	1.70	-.55	095	0.75	-.64	057	0.036	1.61
324	1.95	.53	035	2.28	1.86	231	1.69	-.62				488	0.033 R	1.11
157	1.92	.46	483	2.18	1.46	131	1.75 R	-.62	Meth: 261.00 PCT			354	0.035	1.11
095	1.93	.45	486	2.15	1.34	482	1.63	-.82	Acid Soluble Manganese			307	0.035	1.11
450	1.92	.39	486	2.15	1.34	488	1.68 R	-.90	AA			232	0.034	.63
452	1.90	.36	037	2.06 R	1.13	389	1.61	-.91	105	0.037	.98	022	0.034	.56
360	1.89	.29	102	2.08	1.04	393	1.53	-1.23	Avg	0.034		102	0.033	.34
354	1.88	.25	041	2.04	.93	472	1.50	-1.37	262	0.030	-.74	027	0.033	.34
255	1.85	.13	049	2.01	.80	444	1.47	-1.49				Avg	0.032	
Avg	1.83		027	2.02	.78	433	1.47	-1.51	Meth: 261.30 PCT			389	0.032	-.31
022	1.81	-.15	055	2.00	.70	042	1.30	-2.19	Acid Soluble Manganese			393	0.031	-.32
232	1.79	-.21	023	1.96	.59	481	1.25	-2.40	ICP			035	0.032	-.59
479	1.76	-.28	177	1.97	.59	420	1.15	-2.82	057	0.036 R	1.67	262	0.030	-.82
096	1.76	-.28	057	1.94	.58	402	0.98 s	-3.52	307	0.035	1.16	482	0.030	-.82
307	1.70	-.52	028	1.96	.57				354	0.035	1.16	131	0.030	-.89
371	1.70	-.54	324	1.95	.52	Meth: 251.30 PPM			232	0.034	.67	402	0.027	-2.19
231	1.69	-.62	397	1.95	.51	Lead			022	0.034	.60	483	0.025 s	-3.29
131	1.75 R	-.62	136	1.94	.47	ICP			102	0.033	.37			
482	1.63	-.81	351	1.94	.46	393	18.94	1.62	027	0.033	.37	Meth: 281.30 PPM		
389	1.61	-.90	157	1.92	.45	486	5.85 R	.04	Avg	0.032		Mercury		
393	1.53	-1.22	095	1.93	.44	Avg	5.70		389	0.032	-.29	ICP		
472	1.50	-1.37	450	1.92	.38	452	1.70	-.49	035	0.032	-.59	393	1.18	.87
444	1.47	-1.48	105	1.91	.35	450	1.40	-.53	482	0.030	-.81	Avg	0.60	
433	1.47	-1.50	043	1.91	.35	095	0.75	-.60	131	0.030	-.88	450	0.01	-.86
420	1.15	-2.81	452	1.90	.35				402	0.027	-2.20			
402	0.98 s	-3.52	262	1.91	.34	Meth: 251.99 PPM						Meth: 281.99 PPM		
			360	1.89	.28	Lead			Meth: 261.99 PCT			Mercury		
			354	1.88	.24	Other			Acid Soluble Manganese			Other		
			475	1.86	.13	484	4.29	.71	Other			484	0.00	.00
			255	1.85	.13				488	0.033	1.14	Meth: 281.XX PPM		
			258	1.83	.04	Meth: 251.XX PPM			Avg	0.032		Mercury		
			Avg	1.83		Lead			393	0.031	-.44	484		
			022	1.81	-.15	393	18.94	1.87	483	0.025 S	-3.61	393		
			029	1.80	-.16	486	5.85 R	.07				Avg		
			232	1.79	-.22	Avg	5.42					450		
			479	1.76	-.29	484	4.29	-.16				484		
			096	1.76	-.29	452	1.70	-.51				484		

* 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: 289.30 PPM			Meth: 289.XX PPM			Meth: 291.XX PPM			Meth: 321.00 PCT			Meth: 321.XX PCT		
Molybdenum			Molybdenum			Nickel			Acid Soluble Zinc			Acid Soluble Zinc		
<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>		
247	330.00 s	64.77	452	28.53	-.03	037	188.53	1.04	307	0.069 s	83.38	472	0.010 s	10.00
037	35.97	1.63	433	27.27	-.29	247	174.00	.70	043	0.003	.84	035	0.005 s	4.18
450	32.80	.91	102	27.51	-.32	484	172.94	.68	Avg	0.003		043	0.003	1.74
057	31.18 R	.91	393	26.32	-.50	096	170.50	.63	105	0.002	-.89	484	0.003	1.35
095	32.29	.79	255	25.26	-.76	450	168.00	.58	Meth: 321.30 PCT			324	0.003	1.12
232	31.19	.57	027	24.79	-.83	095	166.97	.55	Acid Soluble Zinc			488	0.003	.88
096	31.25	.57	486	16.85	-2.55	035	154.50 R	.54	<u>ICP</u>			255	0.002 R	.63
049	31.10	.53	481	8.68 s	-4.29	232	164.20	.50	307	0.069 s	119.60	037	0.002	.53
035	29.65	.53	Meth: 291.00 PPM			136	161.00	.42	472	0.010 s	14.47	057	0.002	.44
Avg	28.63		Nickel			049	154.89	.29	035	0.005 s	6.12	105	0.002	.43
452	28.53	-.03	<u>Atomic Absorption</u>			102	154.82	.29	324	0.003	1.75	232	0.002	.26
433	27.27	-.29	136	161.00	.71	Avg	141.72		255	0.002 R	.94	452	0.002	.25
102	27.51	-.32	Meth: 291.30 PPM			452	138.70	-.08	037	0.002	.90	247	0.002	.09
393	26.32	-.50	Nickel			393	127.90	-.32	057	0.002	.75	433	0.002	.08
255	25.26	-.76	<u>ICP</u>			482	89.55	-1.15	452	0.002	.49	Avg	0.002	
027	24.79	-.83	037	188.53	1.07	486	77.40	-1.40	232	0.002	.42	354	0.002	-.04
486	16.85	-2.55	247	174.00	.75	481	16.39	-2.73	247	0.002	.27	402	0.002	-.04
481	8.68 s	-4.29	096	170.50	.68	Meth: 301.30 PPM			481	0.002	.27	481	0.002	-.16
Meth: 289.99 PPM			450	168.00	.63	Selenium			433	0.002	.26	389	0.002	-.16
Molybdenum			095	166.97	.60	<u>ICP</u>			354	0.002	.09	450	0.002	-.24
<u>Other</u>			035	154.50 R	.56	393	1.43	.82	402	0.002	.09	095	0.002	-.25
484	100.24 S	.00	232	164.20	.55	Avg	1.03		Avg	0.002		102	0.001	-1.29
Meth: 289.XX PPM			049	154.89	.36	255	0.64	-.91	389	0.002	-.09	483	0.001	-1.88
Molybdenum			102	154.82	.35	Meth: 311.99 PCT			450	0.002	-.20	292	0.000	-2.55
247	330.00 s	64.77	452	138.70	.05	Sodium			095	0.002	-.21	Meth: 325.30 PCT		
484	100.24 s	15.39	Avg	137.83		<u>Other</u>			102	0.001	-1.70	Water Soluble Zinc		
037	35.97	1.63	393	127.90	-.24	354	0.11	1.60	483	0.001	-2.54	<u>ICP</u>		
450	32.80	.91	482	89.55	-1.01	232	0.09	.31	292	0.000 s	-3.50	393 0.002 -.71		
057	31.18 R	.91	486	77.40	-1.26	057	0.08	.28	Meth: 321.99 PCT			Meth: 325.99 PCT		
095	32.29	.79	481	16.39	-2.52	035	0.08	.19	Acid Soluble Zinc			Water Soluble Zinc		
232	31.19	.57	Meth: 291.99 PPM			Avg	0.08		<u>Other</u>			<u>Other</u>		
096	31.25	.57	Nickel			488	0.08	-.18	484	0.003	.76	450 0.002 -.71		
049	31.10	.53	<u>Other</u>			102	0.08	-.19	Avg	0.003				
035	29.65	.53	484	172.94	.71	482	0.05	-1.91	488	0.003	-.96			
Avg	28.63													

* 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: 325.XX PCT											
<u>Water Soluble Zinc</u>											
393	0.002	.86									
Avg	0.002										
450	0.002	-.87									

* 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	8	- 0.02	0.93	0.77	121.30	13	- 0.67	2.59	0.22
001.99	10	1.52	3.42	0.20	121.XX	15	- 0.57	2.43	0.38
001.XX	18	1.02	3.22	0.41	144.01	16	- 0.22	1.31	0.20
003.10	2	0.00	0.52	0.78	144.99	33	- 0.05	1.01	0.19
003.99	3	0.00	1.11	0.11	144.XX	47	- 0.06	1.01	0.19
003.XX	5	0.00	1.04	0.21	151.30	3	0.00	1.11	0.08
005.00	2	0.00	1.22	0.03	151.XX	5	1.47	3.41	0.28
005.99	4	0.00	1.06	0.18	165.00	2	0.000	0.587	0.760
005.XX	6	0.00	1.05	0.06	165.99	3	0.000	1.079	0.239
010.11	10	0.21	1.18	0.57	165.XX	5	0.080	0.923	0.561
010.12	5	2.84	6.37	0.69	181.30	8	- 0.05	0.97	0.15
010.60	62	0.37	3.41	2.82	181.XX	9	- 0.04	0.97	0.15
010.99	7	4.43	7.64	0.56	190.00	7	- 0.40	1.42	0.35
010.XX	81	0.74	3.66	2.56	190.99	3	- 1.25	2.33	0.13
020.10	2	0.00	0.42	0.81	190.XX	10	- 0.65	2.26	0.18
020.20	3	0.00	1.10	0.16	191.30	11	- 0.16	1.09	0.66
020.40	2	163.34	231.00	0.71	191.XX	13	- 0.09	1.02	0.46
020.50	7	0.70	2.08	0.30	202.30	14	- 0.22	1.49	0.21
020.XX	13	1.10	3.89	0.30	202.XX	15	- 0.21	1.47	0.21
040.99	2	0.00	1.09	0.39	221.00	4	2.1474	4.3698	0.3718
040.XX	2	0.00	1.09	0.39	221.30	22	1.4000	4.1020	0.6567
041.10	2	0.00	1.03	0.47	221.99	2	0.0000	0.4033	0.8177
041.50	7	6.33	16.78	0.19	221.XX	28	1.3200	3.3457	0.5152
041.XX	9	4.69	14.62	0.56	241.00	11	- 1.03	3.53	0.39
048.20	2	0.00	0.24	0.85	241.30	36	0.18	1.92	0.20
048.XX	2	0.00	0.24	0.85	241.99	5	0.00	1.03	0.23
050.00	12	0.96	2.46	0.18	241.XX	51	0.12	1.70	0.21
050.30	7	- 1.35	3.78	0.72	251.30	5	0.00	0.94	0.01
050.31	2	0.00	1.19	0.21	251.XX	6	0.01	0.95	0.02
050.50	7	- 0.53	1.58	1.18	261.00	2	0.000	1.047	0.449
050.51	12	0.10	1.02	0.34	261.30	12	0.127	1.050	0.286
050.60	6	0.00	1.04	0.15	261.99	3	- 1.065	1.896	1.142
050.61	6	0.00	1.04	0.10	261.XX	17	- 0.029	1.243	0.580
050.99	24	- 0.96	5.62	0.48	281.30	2	0.00	1.22	0.10
050.XX	71	- 0.07	2.96	0.38	281.XX	3	0.00	1.11	0.10
060.00	3	0.00	1.12	0.03	289.30	17	3.59	15.83	0.26
060.XX	3	0.00	1.12	0.03	289.XX	18	4.25	15.60	0.26
101.30	14	0.39	1.74	0.31	291.30	14	0.02	0.98	0.15
101.XX	16	0.32	1.67	0.47	291.XX	16	0.02	0.98	0.15

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
301.30	2	0.00	1.16	0.28					
301.XX	2	0.00	1.16	0.28					
311.99	7	0.00	1.03	0.16					
311.XX	7	0.00	1.03	0.16					
321.00	2	0.000	1.127	0.339					
321.30	20	6.807	26.794	0.765					
321.99	2	0.000	0.961	0.537					
321.XX	24	4.044	17.057	0.499					