

- Pass 1 Results for 88 Labs - - Pass 2 Results for 85 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	7	4.38	0.51	0.08	7	4.38	0.51	0.08
Ammoniacal Nitrogen, Other		001.99	10	4.30	0.37	0.08	10	4.30	0.37	0.08
Method Group 001.XX PCT			17	4.34	0.43	0.08	17	4.34	0.43	0.08
Nitrate Nitrogen, Other		002.99	1	0.04	0.01	0.01	1	0.04	0.01	0.01
Water Insoluble Nitrogen, Meth I	945.01	003.10	4	3.43	0.21	0.03	4	3.43	0.21	0.03
Water Insoluble Nitrogen, Other		003.99	1	3.37	0.01	0.01	1	3.37	0.01	0.01
Method Group 003.XX PCT			5	3.42	0.19	0.03	5	3.42	0.19	0.03
Nitrogen From Urea, Urease (as N)	959.03	005.00	2	10.88	4.89	0.20	2	10.88	4.89	0.20
Nitrogen From Urea, Other		005.99	4	15.02	2.16	0.06	4	15.02	2.16	0.06
Method Group 005.XX PCT			6	13.64	3.70	0.11	5	13.35	4.01	0.06
Percent Urea, Other		007.99	1	14.97	0.01	0.01	1	14.97	0.01	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	1	4.44	0.02	0.03	1	4.44	0.02	0.03
Ammon & Nitrate N, Other		009.99	1	3.96	0.08	0.12	1	3.96	0.08	0.12
Method Group 009.XX PCT			2	4.20	0.28	0.07	2	4.20	0.28	0.07
Total Nitrogen, Modified Comprehensive	978.02	010.11	8	22.71	0.39	0.11	7	22.67	0.40	0.07
Total Nitrogen, Salicylic	955.04D	010.12	3	22.68	0.11	0.08	3	22.68	0.11	0.08
Total Nitrogen, Raney	970.03	010.16	1	22.84	0.08	0.12	1	22.84	0.08	0.12
Total Nitrogen, Combustion		010.60	61	23.02	0.35	0.17	56	23.01	0.31	0.13
Total Nitrogen, Other		010.99	2	22.60	0.26	0.31	2	22.60	0.26	0.31
Method Group 010.XX PCT			77	22.96	0.41	0.17	70	22.97	0.35	0.12
Total Phosphate, Grav Quimociac	962.02	020.10	2	1.42	0.23	0.07	2	1.42	0.23	0.07
Total Phosphate, Spectrometric	958.01	020.20	4	1.49	0.08	0.04	4	1.49	0.08	0.04
Total Phosphate, Automated	978.01	020.40	3	1.53	0.08	0.04	3	1.53	0.08	0.04
Total Phosphate, ICP		020.50	7	1.57	0.21	0.04	7	1.57	0.21	0.04
Total Phosphate, Other		020.99	1	1.24	0.00	0.00	1	1.24	0.00	0.00
Method Group 020.XX PCT			17	1.51	0.18	0.04	16	1.50	0.18	0.03
Insoluble Phosphate, Automated	978.01	030.40	1	0.18	0.00	0.00	1	0.18	0.00	0.00
Insoluble Phosphate, Other		030.99	1	0.05	0.01	0.01	1	0.05	0.01	0.01
Method Group 030.XX PCT			2	0.11	0.08	0.01	2	0.11	0.08	0.01
InDir Available Phosphate, Automated	960.02	040.40	2	1.46	0.03	0.03	2	1.46	0.03	0.03
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	2	1.74	0.39	0.09	2	1.74	0.39	0.09
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	1.91	0.01	0.02	1	1.91	0.01	0.02
Dir Available Phosphate, ICP		041.50	5	1.47	0.08	0.06	5	1.47	0.08	0.06
Dir Available Phosphate, EDTA Extract	993.01	041.60	1	1.40	0.04	0.06	1	1.40	0.04	0.06
Method Group 041.XX PCT			9	1.57	0.24	0.06	9	1.57	0.24	0.06
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	1.32	0.04	0.05	1	1.32	0.04	0.05
Soluble Potash, STPB Oxalate	958.02	050.00	10	1.93	0.47	0.18	11	2.03	0.55	0.17
Soluble Potash, STPB Citrate	969.04	050.10	1	2.30	0.11	0.16	1	2.30	0.11	0.16
Soluble Potash, AA (Oxalate)		050.30	11	1.88	0.18	0.07	10	1.85	0.14	0.03

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Soluble Potash, AA (Citrate) .....		050.31	1	1.26	0.07	0.10	1	1.26	0.07	0.10
Soluble Potash, ICP (Oxalate) .....		050.50	5	2.00	0.34	0.04	5	2.00	0.34	0.04
Soluble Potash, ICP (Citrate) .....		050.51	13	1.96	0.14	0.05	13	1.96	0.14	0.05
Soluble Potash, Flame (Oxalate) .....	983.02(a)	050.60	5	1.91	0.23	0.07	5	1.91	0.23	0.07
Soluble Potash, Flame (Citrate) .....	983.02(b)	050.61	9	2.02	0.25	0.07	9	2.02	0.25	0.07
Soluble Potash, Other .....		050.99	13	1.97	0.29	0.09	12	1.93	0.26	0.06
Method Group 050.XX PCT			68	1.94	0.29	0.09	62	1.95	0.24	0.06
Free Water, Vacuum Oven .....	965.08B	060.00	4	0.77	0.11	0.02	4	0.77	0.11	0.02
Acid Soluble Calcium, ICP .....		101.30	17	6.29	0.35	0.11	16	6.29	0.35	0.09
Acid Soluble Magnesium, ICP .....		121.30	20	3.70	0.15	0.08	20	3.70	0.15	0.08
Sulfur, Gravimetric .....	980.02a	144.01	14	5.01	0.13	0.06	13	5.02	0.13	0.05
Sulfur, Other .....		144.99	25	4.92	0.33	0.09	24	4.95	0.33	0.06
Method Group 144.XX PCT			39	4.95	0.28	0.08	36	4.95	0.25	0.05
Arsenic, ICP .....		151.30	4	1.18	1.24	0.03	4	1.18	1.24	0.03
Arsenic, Other .....		151.99	2	1.51	0.43	0.19	2	1.51	0.43	0.19
Method Group 151.XX PPM			6	1.29	1.03	0.09	5	1.18	1.10	0.03
Acid Soluble Boron, Spectrometric .....	982.01	165.00	1	0.002	0.000	0.000	1	0.002	0.000	0.000
Acid Soluble Boron, Other .....		165.99	6	0.008	0.010	0.001	6	0.008	0.010	0.001
Method Group 165.XX PCT			7	0.007	0.009	0.001	7	0.007	0.009	0.001
Cadmium, ICP .....		181.30	7	0.38	0.26	0.04	6	0.38	0.28	0.03
Cadmium, Other .....		181.99	1	0.24	0.01	0.01	1	0.24	0.01	0.01
Method Group 181.XX PPM			8	0.36	0.25	0.04	7	0.36	0.27	0.02
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	2	0.21	0.10	0.01	2	0.21	0.10	0.01
Chromium, ICP .....		191.30	13	107.10	14.90	2.68	12	106.53	15.32	2.07
Chromium, Other .....		191.99	3	56.67	49.25	3.18	3	56.67	49.25	3.18
Method Group 191.XX PPM			17	94.31	33.09	2.62	16	93.08	33.72	2.16
Acid Soluble Cobalt, ICP .....	965.11	202.30	11	12.56	5.96	0.59	11	12.56	5.96	0.59
Acid Soluble Cobalt, Other .....		202.99	2	12.85	7.63	1.62	2	12.85	7.63	1.62
Method Group 202.XX PPM			13	12.60	6.07	0.75	13	12.60	6.07	0.75
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0098	0.0016	0.0011	4	0.0098	0.0016	0.0011
Acid Soluble Copper, ICP .....		221.30	21	0.0097	0.0015	0.0005	20	0.0096	0.0015	0.0004
Acid Soluble Copper, Other .....		221.99	3	0.0108	0.0010	0.0010	3	0.0108	0.0010	0.0010
Method Group 221.XX PCT			28	0.0098	0.0015	0.0006	28	0.0098	0.0015	0.0006
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	13	1.64	0.18	0.05	13	1.64	0.18	0.05
Acid Soluble Iron, ICP .....		241.30	34	1.36	0.44	0.07	33	1.34	0.44	0.07
Acid Soluble Iron, Other .....		241.99	4	1.35	0.43	0.07	4	1.35	0.43	0.07
Method Group 241.XX PCT			52	1.42	0.41	0.08	50	1.42	0.40	0.06
Lead, ICP .....		251.30	8	4.04	1.06	0.52	7	4.11	1.05	0.32
Lead, Other .....		251.99	2	4.42	0.39	0.12	2	4.42	0.39	0.12

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Method Group 251.XX PPM			10	4.12	0.96	0.44	9	4.18	0.94	0.28
Acid Soluble Manganese, ICP .....	972.02a	261.30	10	0.031	0.003	0.001	10	0.031	0.003	0.001
Acid Soluble Manganese, Other .....		261.99	2	0.031	0.007	0.001	2	0.031	0.007	0.001
Method Group 261.XX PCT			13	0.031	0.004	0.002	12	0.031	0.003	0.001
Mercury, ICP .....		281.30	2	0.25	0.50	0.50	2	0.25	0.50	0.50
Molybdenum, ICP .....		289.30	12	9.60	0.76	0.55	12	9.60	0.76	0.55
Molybdenum, Other .....		289.99	1	11.75	0.78	1.10	1	11.75	0.78	1.10
Method Group 289.XX PPM			14	9.86	1.05	0.76	13	9.77	0.95	0.60
Nickel, ICP .....		291.30	9	54.69	11.19	2.42	8	57.77	6.83	1.33
Nickel, Other .....		291.99	1	59.30	6.65	9.40	1	59.30	6.65	9.40
Method Group 291.XX PPM			10	55.15	10.79	3.12	9	57.94	6.64	2.23
Selenium, ICP .....		301.30	3	0.49	0.77	0.14	3	0.49	0.77	0.14
Sodium, Other .....		311.99	5	0.06	0.05	0.01	5	0.06	0.05	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	4	0.026	0.002	0.001	4	0.026	0.002	0.001
Acid Soluble Zinc, ICP .....		321.30	27	0.025	0.003	0.002	26	0.025	0.003	0.001
Acid Soluble Zinc, Other .....		321.99	2	0.028	0.002	0.003	2	0.028	0.002	0.003
Method Group 321.XX PCT			33	0.025	0.003	0.002	32	0.025	0.003	0.001
Water Soluble Zinc, Atomic Absorption .		325.00	1	0.025	0.001	0.001	1	0.025	0.001	0.001
Water Soluble Zinc, ICP .....		325.30	1	0.022	0.002	0.003	1	0.022	0.002	0.003
Method Group 325.XX PCT			2	0.023	0.002	0.002	2	0.023	0.002	0.002

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: 003.XX PCT			Meth: 009.10 PCT			Meth: 010.12 PCT					
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Water Insoluble Nitr</u>			<u>Ammon &amp; Nitrate N</u>			<u>Total Nitrogen</u>					
<u>MgO Distillation</u>									<u>Devarda</u>			<u>Salicylic</u>					
450	18.61 s	27.73	096	4.36	.15	027	3.37	-.28	309	4.44	-.71	455	19.98 S	-25.08			
117	8.36 S	7.76	232	4.38	.12	057	3.26	-.85									
372	5.49	2.15	Avg	4.34		029	3.22	-1.06									
029	4.51	.28	444	4.26	-.35	Meth: 005.00 PCT			Meth: 009.99 PCT			Meth: 010.16 PCT					
Avg	4.38		027	4.15	-.44	<u>Nitrogen From Urea</u>			<u>Ammon &amp; Nitrate N</u>			<u>Total Nitrogen</u>					
232	4.38	-.07	420	4.14	-.47	<u>Urease (as N)</u>			<u>Other</u>			<u>Raney</u>					
444	4.26	-.35	255	4.15	-.49	232	15.11	.87	105	3.96	-.71	300	22.84	.71			
231	4.12	-.53	231	4.12	-.52	Avg	10.88		Meth: 009.XX PCT			Meth: 010.60 PCT					
456	4.07	-.62	456	4.07	-.64	255	6.65	-.87	<u>Ammon &amp; Nitrate N</u>			<u>Total Nitrogen</u>					
230	3.88	-.99	456	3.99	-.81	Meth: 005.99 PCT			309			4.44	.85	<u>Combustion</u>			
Meth: 001.99 PCT			230	3.88	-1.08	<u>Nitrogen From Urea</u>			Avg			4.20		324	24.05 s	3.34	
<u>Ammoniacal Nitrogen</u>			105	3.67	-1.58	<u>Other</u>			105			3.96	-.88	096	24.02 A	3.22	
<u>Other</u>			030	2.75 s	-3.81	456	17.67	1.22	Meth: 010.11 PCT			450			23.60	1.87	
234	4.95	1.77	Meth: 002.99 PCT			309	16.21	.55	<u>Total Nitrogen</u>			393			23.57	1.78	
200	4.74	1.19	<u>Nitrate Nitrogen</u>			Avg	15.02		<u>Modified Comprehensi</u>			007			23.45	1.60	
409	4.43	.50	<u>Other</u>			029	13.66	-.63	371	23.12	1.14	102	23.16 R	1.55			
397	4.47	.44	232	0.04	-.71	027	12.56	-1.14	105	22.97 R	.89	369	23.47	1.46			
096	4.36	.22	Meth: 003.10 PCT			Meth: 005.XX PCT			416	22.97	.74	049	23.44	1.44			
Avg	4.30		<u>Water Insoluble Nitr</u>			<u>Nitrogen From Urea</u>			114	22.92	.62	330	23.40	1.27			
027	4.15	-.42	<u>Meth I</u>			456	17.67	1.08	029	22.82	.41	043	23.34	1.15			
420	4.14	-.46	372	3.69	1.20	309	16.21	.71	Avg	22.67		177	23.37	1.13			
255	4.15	-.49	232	3.56	.61	232	15.11 R	.44	372	22.66	-.04	022	23.30	.91			
456	3.99	-.86	Avg	3.43		029	13.66	.08	309	22.23	-1.12	157	23.26	.81			
105	3.67	-1.75	057	3.26	-.82	Avg	13.35		456	22.00	-1.69	231	23.25	.77			
030	2.75 s	-4.36	029	3.22	-1.00	027	12.56	-.20	211	21.39 S	-3.22	291	23.22	.66			
Meth: 001.XX PCT			Meth: 003.99 PCT			255	6.65	-1.67	322	21.06 S	-4.05	070	23.18	.58			
<u>Ammoniacal Nitrogen</u>			<u>Water Insoluble Nitr</u>			Meth: 007.99 PCT			405	20.06 S	-6.56	095	23.16	.57			
450	18.61 s	33.45	<u>Other</u>			<u>Percent Urea</u>			Meth: 010.12 PCT			055	23.15	.50			
117	8.36 s	9.45	027	3.37	-.71	<u>Other</u>			<u>Total Nitrogen</u>			106	23.05	.49			
372	5.49	2.70	Meth: 003.XX PCT			371	14.97	.71	<u>Salicylic</u>			232	23.08	.47			
234	4.95	1.44	<u>Water Insoluble Nitr</u>						185			22.75	.65	009	23.13	.38	
200	4.74	.94	372	3.69	1.42				397			22.70	.23	035	23.09	.38	
029	4.51	.44	Avg	3.69					Avg			22.68		377	23.13	.38	
409	4.43	.37	232	3.56	.75				117			22.58	-1.42	027	23.13	.37	
397	4.47	.30	Avg	3.42					254			21.12 S	-14.44	131	23.06	.30	
															024	23.11	.29
															425	23.10	.28

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.60 PCT			Meth: 010.60 PCT			Meth: 010.XX PCT			Meth: 010.XX PCT			Meth: 020.20 PCT		
Total Nitrogen			Total Nitrogen			Total Nitrogen			Total Nitrogen			Total Phosphate		
<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Spectrometric</u>		
042	23.10	.28	453	21.07 s	-6.23	377	23.13	.45	325	22.72	-.73	232	1.51	.28
292	23.10	.26	428	21.10 s	-6.31	027	23.13	.44	397	22.70	-.79	Avg	1.49	
233	23.09	.26				035	23.09	.42	372	22.66	-.92	416	1.45	-.55
444	23.09	.25	Meth: 010.99 PCT			024	23.11	.37	162	22.85 R	-.95	420	1.42	-1.11
361	23.06	.25	Total Nitrogen			425	23.10	.36	420	22.62	-1.05	025		
409	23.07	.17	<u>Other</u>			042	23.10	.36	117	22.58	-1.18	Meth: 020.40 PCT		
073	23.03	.17	420	22.74	.58	292	23.10	.35	390	22.49	-1.40	Total Phosphate		
247	23.05	.15	Avg	22.60		233	23.09	.34	041	22.45	-1.52	<u>Automated</u>		
452	23.04	.10	402	22.47	-1.08	444	23.09	.33	451	22.45 X	-1.52	096	1.62	1.10
351	23.02	.03	105	21.20 S	-5.45	131	23.06	.33	402	22.47	-1.62	Avg	1.53	
Avg	23.01		030	18.99 S	-13.92	361	23.06	.30	034	22.66 R	-1.62	247	1.53	-.20
406	23.00	-.08				409	23.07	.26	309	22.23	-2.15	035	1.45	-1.12
372	22.96	-.18	Meth: 010.XX PCT			247	23.05	.23	360	22.27 R	-2.17	Meth: 020.50 PCT		
230	22.95	-.26	Total Nitrogen			073	23.03	.21	422	22.17	-2.33	Total Phosphate		
389	22.95	-.26	324	24.05 A	3.11	452	23.04	.20	456	22.00	-2.79	<u>ICP</u>		
234	22.86	-.53	096	24.02	3.00	351	23.02	.12	354	21.64 A	-3.85	368	1.96	1.91
037	22.94	-.53	450	23.60	1.79	406	23.00	.09	211	21.39 s	-4.54	422	1.77	.95
086	22.97	-.58	393	23.57	1.70	Avg	22.97		105	21.20 s	-5.12	Avg	1.57	
057	22.87	-.66	007	23.45	1.54	416	22.97	-.03	254	21.12 s	-5.31	361	1.54	-.18
426	22.80	-.70	102	23.16 R	1.43	372	22.96	-.07	453	21.07 s	-5.48	389	1.49	-.40
443	22.79	-.71	369	23.47	1.42	389	22.95	-.16	322	21.06 s	-5.49	390	1.43	-.71
040	22.99	-.74	049	23.44	1.40	230	22.95	-.16	428	21.10 s	-5.56	453	1.42	-.77
296	22.79	-.74	330	23.40	1.25	114	22.92	-.20	405	20.06 s	-8.35	330	1.40	-.83
029	22.75	-.86	255	22.98 R	1.15	234	22.86	-.37	455	19.98 s	-8.59			
028	22.77	-.88	043	23.34	1.13	300	22.84	-.42	030	18.99 s	-11.44	Meth: 020.99 PCT		
325	22.72	-.94	177	23.37	1.12	037	22.94	-.43				Total Phosphate		
162	22.85 R	-1.11	022	23.30	.93	029	22.82	-.51	Meth: 020.10 PCT			<u>Other</u>		
255	22.98 R	-1.29	157	23.26	.83	086	22.97	-.51	Total Phosphate			322	1.24	.71
420	22.62	-1.29	231	23.25	.80	426	22.80	-.52	<u>Grav Quimociac</u>			Avg	1.24	
025	22.60	-1.32	291	23.22	.70	057	22.87	-.52	444	1.62	.90	443	0.00 S	-586.19
390	22.49	-1.69	040	22.99	.66	443	22.79	-.53	Avg	1.42				
041	22.45	-1.81	070	23.18	.62	105	22.97	-.54	405	1.23	-.83			
451	22.45 X	-1.82	095	23.16	.60	296	22.79	-.56				Meth: 020.XX PCT		
034	22.66 R	-1.88	055	23.15	.54	185	22.75	-.66	Meth: 020.20 PCT			<u>Total Phosphate</u>		
360	22.27	-2.54	232	23.08	.48	029	22.75	-.67	Total Phosphate			368	1.96	2.60
422	22.17	-2.72	106	23.05	.48	420	22.74	-.69	<u>Spectrometric</u>			422	1.77	1.49
354	21.64 s	-4.41	371	23.12	.46	028	22.77	-.70	450	1.59	1.37	444	1.62 R	.76

\* 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: 020.XX PCT			Meth: 040.40 PCT			Meth: 041.XX PCT			Meth: 050.30 PCT			Meth: 050.51 PCT			
<u>Total Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			
096	1.62	.66	<u>Automated</u>			009	1.42	-.64	<u>AA (Oxalate)</u>			<u>ICP (Citrate)</u>			
450	1.59	.52	096	1.44	-.76	377	1.40	-.70	157	1.93	.73	009	1.90	-.52	
361	1.54	.24	Meth: 041.10 PCT			009	1.40	-.71	451	1.94 X	.66	022	1.87	-.62	
247	1.53	.15	<u>Dir Available Phosph</u>			024	1.40	-.71	169	1.91	.46	361	1.87	-.64	
232	1.51	.07	<u>Grav Quimociac</u>			Meth: 048.20 PCT			351	1.90	.38	452	1.84	-.80	
Avg	1.50		055	2.07	.87	<u>Water Soluble Phosph</u>			234	1.87	.19	043	1.84	-.82	
389	1.49	-.09	Avg			1.74	<u>Spectrometric</u>			Avg	1.85		393	1.72	-1.65
416	1.45	-.29	009	1.40	-.86	420	1.32	.71	369	1.75	-.71	Meth: 050.60 PCT			
035	1.45	-.37	Meth: 041.20 PCT			Meth: 050.00 PCT			425	1.61	-1.67	<u>Soluble Potash</u>			
390	1.43	-.44	<u>Dir Available Phosph</u>			<u>Soluble Potash</u>			185	1.60	-1.74	<u>Flame (Oxalate)</u>			
453	1.42	-.51	<u>Spectrometric</u>			114	3.99 S	3.57	Meth: 050.31 PCT			443	2.33	1.82	
420	1.42	-.53	055	1.91	.71	372	3.02 S	1.79	<u>Soluble Potash</u>			406	1.92	.10	
330	1.40	-.57	Meth: 041.50 PCT			022	2.76	1.36	<u>AA (Citrate)</u>			Avg	1.91		
322	1.24	-1.45	<u>Dir Available Phosph</u>			029	2.37	.61	254	1.26	.71	105	1.79	-.57	
405	1.23	-1.53	<u>ICP</u>			296	2.12	.22	Meth: 050.50 PCT			200	1.76	-.64	
443	0.00 s	-8.43	007	1.56	1.23	049	2.04	.19	<u>Soluble Potash</u>			131	1.76	-.66	
Meth: 030.40 PCT			360	1.52	.94	211	2.10 X	.12	<u>ICP (Oxalate)</u>			Meth: 050.61 PCT			
<u>Insoluble Phosphate</u>			Avg	1.47		Avg	1.93		422	10.20 s	24.36	<u>Soluble Potash</u>			
<u>Automated</u>			325	1.45	-.72	397	1.85	-.34	372	2.61	1.80	<u>Flame (Citrate)</u>			
096	0.18	.00	009	1.42	-.85	009	1.79	-.45	Avg	2.00		030	9.75 s	31.02	
Meth: 030.99 PCT			377	1.40	-.93	043	1.82	-.48	420	1.94	-.18	456	2.50	1.94	
<u>Insoluble Phosphate</u>			Meth: 041.60 PCT			102	1.45 X	-1.14	324	1.92	-.24	034	2.24	.92	
<u>Other</u>			<u>Dir Available Phosph</u>			230	1.06	-1.77	106	1.88	-.39	029	2.13	.46	
247	0.05	.71	<u>EDTA Extract</u>			Meth: 050.10 PCT			426	1.66	-1.01	095	2.03	.07	
Meth: 030.XX PCT			024	1.40	.71	<u>Soluble Potash</u>			Meth: 050.51 PCT			Avg	2.02		
<u>Insoluble Phosphate</u>			Meth: 041.XX PCT			<u>STPB Citrate</u>			<u>Soluble Potash</u>			024	1.95	-.28	
096	0.18	.86	<u>Dir Available Phosph</u>			444	2.30	.71	<u>ICP (Citrate)</u>			105	1.93	-.44	
Avg	0.11		055	2.07	2.07	Meth: 050.30 PCT			432	2.25	2.02	035	1.96	-.49	
247	0.05	-.87	055	1.91	1.40	<u>Soluble Potash</u>			291	2.17	1.46	028	1.74	-1.11	
Meth: 040.40 PCT			Avg			1.57	<u>AA (Oxalate)</u>			453	2.07	.79	041	1.67	-1.39
<u>InDir Available Phos</u>			007	1.56	-.09	450	2.22 R	3.00	007	2.05	.61	025	0.88 S	-4.57	
<u>Automated</u>			360	1.52	-.29	040	1.99	1.03	389	1.98	.22	Meth: 050.99 PCT			
247	1.48	.96	325	1.45	-.53	073	1.97	.86	Avg	1.96		<u>Soluble Potash</u>			
Avg	1.46		Meth: 050.30 PCT			Meth: 050.30 PCT			444	1.95	-.15	<u>Other</u>			
Meth: 040.40 PCT			<u>Dir Available Phosph</u>			<u>Soluble Potash</u>			377	1.95	-.35	455	10.02 s	30.70	
<u>InDir Available Phos</u>			<u>EDTA Extract</u>			<u>AA (Oxalate)</u>			Meth: 050.51 PCT			<u>Soluble Potash</u>			
<u>Automated</u>			024	1.40	.71	<u>STPB Citrate</u>			<u>Soluble Potash</u>			<u>Flame (Citrate)</u>			
247	1.48	.96	Meth: 041.XX PCT			Meth: 050.30 PCT			<u>ICP (Citrate)</u>			<u>Other</u>			
Avg	1.46		<u>Dir Available Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Flame (Citrate)</u>			
Meth: 040.40 PCT			<u>EDTA Extract</u>			<u>AA (Oxalate)</u>			<u>Soluble Potash</u>			<u>Flame (Citrate)</u>			
<u>InDir Available Phos</u>			024	1.40	.71	<u>STPB Citrate</u>			<u>Soluble Potash</u>			<u>Flame (Citrate)</u>			
<u>Automated</u>			Meth: 041.XX PCT			Meth: 050.30 PCT			<u>Soluble Potash</u>			<u>Flame (Citrate)</u>			
247	1.48	.96	<u>Dir Available Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Flame (Citrate)</u>			
Avg	1.46		<u>EDTA Extract</u>			<u>AA (Oxalate)</u>			<u>Soluble Potash</u>			<u>Flame (Citrate)</u>			
Meth: 040.40 PCT			<u>EDTA Extract</u>			<u>AA (Oxalate)</u>			<u>Soluble Potash</u>			<u>Flame (Citrate)</u>			
<u>InDir Available Phos</u>			<u>EDTA Extract</u>			<u>AA (Oxalate)</u>			<u>Soluble Potash</u>			<u>Flame (Citrate)</u>			
<u>Automated</u>			<u>EDTA Extract</u>			<u>AA (Oxalate)</u>			<u>Soluble Potash</u>			<u>Flame (Citrate)</u>			
247	1.48	.96	<u>EDTA Extract</u>			<u>AA (Oxalate)</u>			<u>Soluble Potash</u>			<u>Flame (Citrate)</u>			
Avg	1.46		<u>EDTA Extract</u>			<u>AA (Oxalate)</u>			<u>Soluble Potash</u>			<u>Flame (Citrate)</u>			

\* 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: 050.99 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 101.30 PCT			Meth: 121.30 PCT		
<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>		
<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
247	8.26 s	24.03	029	2.13	.76	043	1.84	-.44	035	6.30	.44	361	3.47	-1.50
325	2.35 R	1.84	211	2.10 X	.62	397	1.85	-.44	106	6.40	.37	393	0.34 s	-21.77
354	2.35	1.64	049	2.04	.57	009	1.79	-.69	389	6.40	.30	Meth: 144.01 PCT		
042	2.05	.48	453	2.07	.52	105	1.79	-.69	057	6.34	.20	Sulfur		
255	2.01	.37	042	2.05	.48	200	1.76	-.77	361	6.36	.18	<u>Gravimetric</u>		
177	2.03	.37	035	1.96	.44	131	1.76	-.79	420	6.30	.04	029	5.17	1.24
360	2.00	.27	007	2.05	.41	369	1.75	-.82	Avg	6.29		296	5.12	.97
390	1.98	.17	255	2.01	.38	043	1.82 R	-.84	247	6.24	-.15	043	5.14	.97
131	1.96	.10	177	2.03	.36	028	1.74	-.86	102	6.12	-.50	324	5.11	.70
027	1.94	.02	095	2.03	.35	393	1.72	-.93	009	6.20 R	-.70	095	5.08	.52
Avg	1.93		360	2.00	.26	041	1.67	-1.15	433	5.90	-1.11	397	5.07	.41
232	1.90	-.14	377	1.95	.21	426	1.66	-1.19	232	5.80	-1.40	102	5.05	.28
037	1.91	-.17	040	1.99	.19	425	1.61	-1.39	065	5.45	-2.38	055	5.05	.25
402	1.91	-.18	389	1.98	.16	185	1.60	-1.43	Meth: 121.30 PCT			105	5.04	.18
322	1.19	-2.85	390	1.98	.14	102	1.45 R	-2.26	<u>Acid Soluble Magnesi</u>			Avg	5.02	
Meth: 050.XX PCT			073	1.97	.10	254	1.26	-2.84	<u>ICP</u>			372	4.92	-.78
<u>Soluble Potash</u>			444	1.95	.09	322	1.19	-3.14	041	4.06	2.35	028	4.93 R	-1.10
422	10.20 s	34.13	131	1.96	.07	230	1.06 A	-3.68	422	3.98	1.85	114	4.87	-1.16
455	10.02 s	33.37	Avg	1.95		025	0.88 s	-4.43	390	3.85	.99	444	4.88	-1.18
030	9.75 s	32.35	024	1.95	-.02	Meth: 060.00 PCT			453	3.85	.99	405	4.74	-2.15
247	8.26 s	26.11	420	1.94	-.05	<u>Free Water</u>			433	3.76	.42	030	3.16 s	-14.89
114	3.99 s	8.47	027	1.94	-.05	<u>Vacuum Oven</u>			057	3.73	.39	Meth: 144.99 PCT		
372	3.02 s	4.42	324	1.92	-.10	096	0.92	1.32	247	3.73	.23	Sulfur		
022	2.76 R	3.45	451	1.94 X	-.11	105	0.82	.43	131	3.70	.07	<u>Other</u>		
372	2.61	2.73	406	1.92	-.13	Avg	0.77		Avg	3.70		157	5.75 S	2.40
456	2.50	2.29	169	1.91	-.15	247	0.69	-.80	389	3.68	-.21	230	5.51 R	1.80
325	2.35 R	1.97	232	1.90	-.19	007	0.68	-.97	106	3.65	-.35	393	5.55 X	1.78
354	2.35	1.74	351	1.90	-.20	Meth: 101.30 PCT			444	3.65	-.37	360	5.48	1.57
029	2.37	1.74	402	1.91	-.22	<u>Acid Soluble Calcium</u>			450	3.70	-.42	351	5.12	.65
443	2.33	1.61	037	1.91	-.22	<u>ICP</u>			420	3.63	-.49	361	5.12	.51
444	2.30	1.50	009	1.90	-.28	422	7.90 s	4.52	035	3.64	-.54	330	5.10	.45
450	2.22 R	1.40	157	1.93	-.28	041	6.98	1.96	102	3.65	-.55	409	5.07	.41
432	2.25	1.25	105	1.93	-.30	390	6.59	.85	009	3.66	-.61	009	5.06	.40
034	2.24	1.24	234	1.87	-.31	453	6.57	.79	065	3.50	-1.37	035	5.04	.27
291	2.17	.91	022	1.87	-.32	131	6.53	.69	232	3.48	-1.44	247	5.03	.24
296	2.12	.79	106	1.88	-.32	450	6.40	.50						
			361	1.87	-.34									
			452	1.84	-.43									

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 144.99 PCT			Meth: 144.XX PCT			Meth: 151.99 PPM			Meth: 165.XX PCT			Meth: 190.00 PCT		
<u>Sulfur</u>			<u>Sulfur</u>			<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Water Soluble Chlori</u>		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Titrimetric</u>		
390	5.03	.24	035	5.04	.37	231	1.86	.92	409	0.002	-.50	422	0.30	.87
354	5.00	.16	105	5.04	.36	Avg	1.51		393	0.002	-.51	Avg	0.21	
177	4.96	.04	247	5.03	.33	409	1.16	-.81	232	0.002	-.52	405	0.13	-.87
Avg	4.92		390	5.03	.33	Meth: 151.XX PPM			433	0.001	-.59	Meth: 191.30 PPM		
027	4.92	-.10	354	5.00	.23	<u>Arsenic</u>			Meth: 181.30 PPM			Meth: 191.30 PPM		
117	4.90	-.18	177	4.96	.07	372	49.82 s	44.39	Cadmium			Chromium		
452	4.85	-.31	Avg	4.95		255	2.97	1.64	<u>ICP</u>			<u>ICP</u>		
049	4.83	-.36	027	4.92	-.12	231	1.86 R	.65	452	2.38 s	7.08	390	137.00	1.99
453	4.71	-.73	372	4.92	-.14	230	1.43	.23	247	0.83	1.57	096	126.00	1.27
450	4.71	-.74	117	4.90	-.22	Avg	1.18		393	0.60	.76	450	118.50	.80
372	4.67 X	-.84	114	4.87	-.31	409	1.16	-.02	230	0.42	.14	009	114.00 R	.59
291	4.63	-.98	444	4.88	-.36	393	0.33	-.78	Avg	0.38		035	110.00	.24
232	4.53	-1.28	452	4.85	-.40	450	0.00	-1.07	255	0.38 R	-.27	452	107.74	.12
255	4.52	-1.28	028	4.93	-.43	Meth: 165.00 PCT			102	0.23	-.54	037	106.86	.02
368	4.43 R	-1.69	049	4.83	-.47	<u>Acid Soluble Boron</u>			450	0.23	-.56	Avg	106.53	
389	4.25	-2.10	405	4.74	-.82	<u>Spectrometric</u>			372	0.00	-1.35	065	105.85	-.08
422	3.24 s	-5.13	453	4.71	-.96	393	0.002	-.71	Meth: 181.99 PPM			255	101.63	-.32
Meth: 144.XX PCT			450	4.71	-.97	Meth: 165.99 PCT			Meth: 181.99 PPM			102	98.41	-.54
<u>Sulfur</u>			372	4.67 X	-1.11	<u>Acid Soluble Boron</u>			Cadmium			230	97.00	-.63
157	5.75 s	3.24	291	4.63	-1.30	<u>Other</u>			Other			232	91.00	-1.02
230	5.51 R	2.42	232	4.53	-1.70	368	0.028	2.06	409	0.24	.71	444	78.36	-1.84
393	5.55 X	2.41	255	4.52	-1.71	444	0.009	.16	Meth: 181.XX PPM			372	40.98 s	-4.28
360	5.48	2.12	368	4.43 R	-2.26	Avg	0.008		Cadmium			Meth: 191.99 PPM		
029	5.17	.91	389	4.25	-2.80	422	0.004	-.43	452	2.38 s	7.62	Chromium		
351	5.12 R	.89	422	3.24 s	-6.87	409	0.002	-.55	247	0.83	1.75	<u>Other</u>		
043	5.14	.77	030	3.16 s	-7.32	232	0.002	-.57	393	0.60	.88	409	120.00	1.29
296	5.12	.74	Meth: 151.30 PPM			433	0.001	-.64	255	0.38 R	.29	Avg	56.67	
361	5.12	.70	<u>Arsenic</u>			Meth: 165.XX PCT			230	0.42	.22	231	29.21	-.56
324	5.11	.64	<u>ICP</u>			<u>Acid Soluble Boron</u>			Avg	0.36		027	20.80	-.73
330	5.10	.61	372	49.82 s	39.14	368	0.028	2.27	409	0.24	-.48	Meth: 191.XX PPM		
409	5.07	.56	255	2.97	1.44	444	0.009	.25	102	0.23	-.50	Chromium		
009	5.06	.55	230	1.43	.20	Avg	0.007		450	0.23	-.52	390	137.00	1.30
095	5.08	.54	Avg	1.18		422	0.004	-.38	372	0.00	-1.36	096	126.00	.98
397	5.07	.49	393	0.33	-.69	Meth: 165.XX PCT			Meth: 191.XX PPM			409	120.00	.80
102	5.05	.42	450	0.00	-.95	<u>Acid Soluble Boron</u>			Chromium			450	118.50	.76
055	5.05	.40	Meth: 151.30 PPM			<u>Other</u>			Chromium			Meth: 191.XX PPM		

\* 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: 191.XX PPM <u>Chromium</u>			Meth: 202.XX PPM <u>Acid Soluble Cobalt</u>			Meth: 221.30 PCT <u>Acid Soluble Copper</u>			Meth: 221.XX PCT <u>Acid Soluble Copper</u>			Meth: 241.00 PCT <u>Acid Soluble Iron</u>						
009	114.00 R	.64	452	51.80 s	6.46	ICP	028	0.0099	.54	397	1.25	-2.19						
035	110.00	.50	450	19.50	1.14	057	0.0100	.29	450	0.0103	.34	030	1.01 s	-3.88				
452	107.74	.44	409	19.40	1.14	372	0.0100	.29	065	0.0098	.33	Meth: 241.30 PCT						
037	106.86	.41	037	18.71	1.01	444	0.0100	.27	095	0.0100	.24	<u>Acid Soluble Iron</u>						
065	105.85	.38	009	17.90	.88	106	0.0100	.27	057	0.0100	.19	ICP						
255	101.63	.25	057	17.43	.80	Avg	0.0096		372	0.0100	.15	432	2.15	1.83				
102	98.41	.16	035	16.35	.63	324	0.0095	-.11	444	0.0100	.13	330	1.90	1.29				
230	97.00	.12	Avg	12.60		232	0.0095	-.24	106	0.0100	.13	131	1.83	1.11				
Avg	93.08		065	11.44	-.19	433	0.0092	-.30	409	0.0099	.06	450	1.79 R	1.09				
232	91.00	-.08	230	10.85	-.29	368	0.0095	-.34	Avg	0.0098		360	1.80	1.07				
444	78.36	-.44	232	10.80	-.30	422	0.0095	-.34	324	0.0095	-.20	106	1.79	1.01				
372	40.98	-1.55	102	8.89	-.61	102	0.0095	-.34	232	0.0095	-.29	390	1.79	1.01				
231	29.21	-1.89	231	6.30	-1.04	453	0.0090	-.40	102	0.0095	-.39	057	1.77	.97				
027	20.80	-2.14	372	6.25	-1.05	393	0.0082	-.92	368	0.0095	-.39	096	1.76	.95				
Meth: 202.30 PPM <u>Acid Soluble Cobalt</u>			Meth: 221.00 PCT <u>Acid Soluble Copper</u>			Meth: 221.99 PCT <u>Acid Soluble Copper</u>			Meth: 241.00 PCT <u>Acid Soluble Iron</u>			Meth: 241.00 PCT <u>Atomic Absorption</u>						
452	51.80 s	6.59	ICP	043	0.0115	1.22	Other	231	0.0112	.98	393	0.0082	-1.05	009	1.65	.71		
450	19.50	1.17	028	0.0099	.50	028	0.0112	.98	428	0.0076	-1.47	428	0.0076	-1.47	409	1.62	.63	
037	18.71	1.03	095	0.0100	.23	402	0.0115	.81	452	0.0063	-2.34	041	0.0060	-2.54	324	1.61	.61	
009	17.90	.91	Avg	0.0098		Avg	0.0108		041	0.0060	-2.54	035	1.56	.49	035	1.56	.49	
057	17.43	.82	428	0.0076	-1.31	409	0.0099	-.95	Meth: 241.00 PCT			354	1.55	.48	255	1.52	.44	
035	16.35	.65	Meth: 221.30 PCT <u>Acid Soluble Copper</u>			Meth: 221.XX PCT <u>Acid Soluble Copper</u>			Meth: 241.00 PCT			368	1.52	.44	368	1.52	.44	
Avg	12.56		ICP	330	0.1000 s	60.26	330	0.1000 s	60.26	<u>Atomic Absorption</u>			422	1.43	.21	422	1.43	.21
065	11.44	-.19	330	0.1000 s	60.92	255	0.0150 s	3.72	428	1.78	.81	073	1.39	.12	073	1.39	.12	
230	10.85	-.29	255	0.0150 s	3.88	073	0.0140 s	3.11	043	1.77	.79	Avg	1.34		Avg	1.34		
232	10.80	-.30	073	0.0140 s	3.26	230	0.0120	1.47	095	1.76	.76	291	1.30	-.13	291	1.30	-.13	
102	8.89	-.62	230	0.0120	1.62	043	0.0115	1.32	028	1.74	.56	232	1.20	-.33	232	1.20	-.33	
372	6.25	-1.06	354	0.0115	1.33	354	0.0115	1.18	029	1.72	.53	065	1.17	-.42	065	1.17	-.42	
368	0.00	-2.11	035	0.0114	1.22	402	0.0115	1.18	177	1.72	.47	433	1.11	-.54	433	1.11	-.54	
Meth: 202.99 PPM <u>Acid Soluble Cobalt</u>			389	0.0110 R	1.16	231	0.0112	1.10	055	1.71	.40	231	1.12	-.54	231	1.12	-.54	
409	19.40	.87	009	0.0107	.79	035	0.0114	1.07	040	1.70	.35	426	1.08	-.62	426	1.08	-.62	
Avg	12.85		450	0.0103	.47	389	0.0110	1.04	296	1.67	.22	452	1.04	-.71	452	1.04	-.71	
231	6.30	-.86	065	0.0098	.36	009	0.0107	.66	Avg	1.64		114	1.04	-.71	114	1.04	-.71	
									Meth: 241.00 PCT			102	0.97	-.90	102	0.97	-.90	
									<u>Atomic Absorption</u>			389	0.84	-1.16	389	0.84	-1.16	
												022	1.26	-2.14	022	1.26	-2.14	
												230	0.80	-1.25	230	0.80	-1.25	

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 251.30 PPM			Meth: 261.30 PCT			Meth: 281.30 PPM		
Acid Soluble Iron			Acid Soluble Iron			Lead			Acid Soluble Manganese			Mercury		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
372	0.72	-1.43	409	1.62	.49	009	5.20	1.04	009	0.034	.99	450	0.50	1.12
453	0.64	-1.61	351	1.62	.48	372	4.77	.63	065	0.032	.47	Avg	0.25	
393	0.50 X	-1.93	324	1.61	.47	Avg	4.11		Avg	0.031		372	0.00	-0.50
247	0.50	-1.95	117	1.60	.44	230	3.94	-.18	102	0.031	-.41			
			157	1.59	.43	444	3.45	-.64	057	0.030	-.49	Meth: 289.30 PPM		
			035	1.56	.35	102	3.25	-.85	106	0.030	-.50	Molybdenum		
Meth: 241.99 PCT			354	1.55	.33	065	3.54 R	-1.07	433	0.030	-.58	<u>ICP</u>		
Acid Soluble Iron			255	1.52	.31	255	2.68	-1.37	444	0.030	-.92	255	11.05 s	2.72
Other			368	1.52	.31				232	0.028	-1.46	035	10.85	1.70
234	1.75	.94	422	1.43	.08	Meth: 251.99 PPM			Meth: 261.99 PCT			450	10.50	1.35
117	1.60	.57	Avg	1.42		Lead			Acid Soluble Manganese			102	9.62	.93
042	1.36	.03	073	1.39	-.11	<u>Other</u>			<u>Other</u>			230	10.17	.86
Avg	1.35		042	1.36	-.15	409	4.75	.87	409	0.036	.87	393	9.72	.16
402	0.71	-1.52	291	1.30	-.32	Avg	4.42		Avg	0.031		Avg	9.60	
			022	1.26	-.42	231	4.08	-.87	393	0.025	-.86	009	9.55	-.09
			397	1.25	-.44	Meth: 251.XX PPM			Meth: 261.XX PCT			232	9.60	-.26
Meth: 241.XX PCT			232	1.20	-.55	Lead			Acid Soluble Manganese			065	9.40	-.27
Acid Soluble Iron			065	1.17	-.64	452	12.52 s	8.87	422	0.035 R	1.89	057	9.60	-.39
432	2.15	1.80	231	1.12	-.77	450	5.50	1.50	409	0.036	1.57	433	8.88	-.95
330	1.90	1.21	433	1.11	-.77	450	5.50	1.50	131	0.035	1.21	037	8.93	-.97
131	1.83	1.02	426	1.08	-.86	009	5.20	1.09	409	0.036	1.57	452	8.40	-1.73
450	1.79 R	1.00	114	1.04	-.96	372	4.77	.63	035	0.034	1.06	247	1.75 s	-10.31
360	1.80	.97	452	1.04	-.96	409	4.75	.61	009	0.034	.78	Meth: 289.99 PPM		
106	1.79	.90	102	0.97	-1.16	Avg	4.18		065	0.032	.37	Molybdenum		
390	1.79	.90	030	1.01 R	-1.25	231	4.08	-.12	Avg	0.031		<u>Other</u>		
428	1.78	.89	389	0.84	-1.44	230	3.94	-.27	102	0.031	-.30	409	11.75	.71
057	1.77	.87	230	0.80	-1.54	444	3.45	-.78	057	0.030	-.33	Avg	11.75	
043	1.77	.86	372	0.72	-1.74	102	3.25	-1.02	106	0.030	-.34	231	3.22 S	-10.97
095	1.76	.86	402	0.71	-1.78	065	3.54 R	-1.24	433	0.030	-.40	Meth: 289.XX PPM		
096	1.76	.84	453	0.64	-1.93	255	2.68	-1.60	444	0.030	-.67	Molybdenum		
041	1.76	.84	393	0.50 X	-2.28	Meth: 261.30 PCT			232	0.028	-1.06	409	11.75	2.17
234	1.75	.83	247	0.50	-2.30	Acid Soluble Manganese			393	0.025	-1.90	255	11.05 R	2.06
028	1.74	.78	Meth: 251.30 PPM			<u>ICP</u>			<u>ICP</u>			035	10.85	1.20
029	1.72	.74	Lead			422			422			450	10.50	.94
177	1.72	.74	<u>ICP</u>			422			0.035 s			230	10.17	.55
055	1.71	.71	452			131			0.035					
040	1.70	.68	450			035			0.034					
296	1.67	.62	12.52 s			8.02			1.37					
009	1.65	.59	5.50			1.41								

\* 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: 289.XX PPM</u>			<u>Meth: 291.XX PPM</u>			<u>Meth: 321.30 PCT</u>			<u>Meth: 321.XX PCT</u>			<u>Meth: 325.00 PCT</u>		
<u>Molybdenum</u>			<u>Nickel</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Water Soluble Zinc</u>		
Avg	9.77		409	59.30	.74	ICP			330	0.100 s	27.54	<u>Atomic Absorption</u>		
393	9.72	-.05	Avg	57.94		330	0.100 s	27.23	450	0.030	1.75	428	0.025	.71
009	9.55	-.23	065	55.32	-.40	450	0.030	1.84	422	0.030	1.68	Meth: 325.30 PCT		
232	9.60	-.27	037	54.27	-.55	422	0.030	1.78	390	0.029	1.51	Water Soluble Zinc		
057	9.60	-.36	035	54.95	-.55	390	0.029	1.58	231	0.029	1.39	<u>ICP</u>		
065	9.40	-.39	102	51.00	-1.05	131	0.029	1.35	131	0.029	1.25	393	0.022	.71
102	9.62	-.76	232	49.10	-1.33	037	0.027	1.03	402	0.028	1.19	Meth: 325.XX PCT		
037	8.93	-.94	393	30.04 R	-4.29	324	0.027	1.00	043	0.028	1.03	<u>Water Soluble Zinc</u>		
433	8.88	-.94	247	10.25 s	-7.19	255	0.027	.69	037	0.027	.96	428	0.025	.77
452	8.40	-1.55	Meth: 301.30 PPM			009	0.026	.68	324	0.027	.93	Avg	0.023	
231	3.22 s	-6.90	<u>Selenium</u>			354	0.026	.49	009	0.026	.67	393	0.022	-.95
247	1.75 s	-8.46	<u>ICP</u>			096	0.026	.43	255	0.027	.57			
Meth: 291.30 PPM			393	1.47	1.30	409	0.026	.39	354	0.026	.42			
<u>Nickel</u>			Avg	0.49		041	0.026	.32	095	0.026	.35			
<u>ICP</u>			450	0.00	-.64	022	0.026	.23	096	0.026	.31			
444	66.55	1.29	372	0.00	-.64	027	0.025	.10	409	0.026	.30			
450	66.00	1.21	Meth: 311.99 PCT			Avg	0.025		041	0.026	.20			
009	64.95	1.05	<u>Sodium</u>			389	0.025	-.04	296	0.026	.20			
Avg	57.77		<u>Other</u>			452	0.025	-.29	022	0.026	.19			
065	55.32	-.36	422	0.16	1.87	065	0.024	-.65	Avg	0.025				
037	54.27	-.51	Avg	0.06		057	0.023	-.68	027	0.025	-.03			
035	54.95	-.52	035	0.05	-.33	372	0.023	-.76	389	0.025	-.17			
102	51.00	-1.00	057	0.03	-.47	433	0.023	-.82	452	0.025	-.40			
232	49.10	-1.27	009	0.03	-.57	453	0.023	-.97	028	0.024	-.44			
393	30.04 R	-4.14	232	0.03	-.60	230	0.023	-.97	065	0.024	-.77			
247	10.25 S	-6.95	Meth: 321.00 PCT			232	0.022	-1.10	057	0.023	-.82			
Meth: 291.99 PPM			<u>Acid Soluble Zinc</u>			444	0.022	-1.19	372	0.023	-.90			
<u>Nickel</u>			<u>Atomic Absorption</u>			102	0.022	-1.33	433	0.023	-.96			
409	59.30	.71	043	0.028	1.35	368	0.021	-1.55	453	0.023	-1.11			
Meth: 291.XX PPM			095	0.026	.27	106	0.025 R	-1.82	230	0.023	-1.11			
<u>Nickel</u>			Avg	0.026		Meth: 321.99 PCT			232	0.022	-1.24			
444	66.55	1.30	296	0.026	-.14	<u>Acid Soluble Zinc</u>			444	0.022	-1.33			
450	66.00	1.22	028	0.024	-1.26	<u>Other</u>			102	0.022	-1.47			
009	64.95	1.06	200	0.003 S	-15.37	231	0.029	.51	368	0.021	-1.70			
						Avg	0.028		106	0.025 R	-1.85			
						402	0.028	-1.11	200	0.003 s	-8.35			

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

## Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.10	9	3.94	9.32	0.29	121.XX	21	- 1.04	4.84	0.28
001.99	11	- 0.39	1.60	0.33	144.01	15	- 1.02	3.87	0.80
001.XX	19	2.10	8.00	0.32	144.99	27	- 0.19	1.44	0.22
003.10	4	0.00	1.07	0.09	144.XX	41	- 0.23	1.94	0.35
003.XX	5	0.00	1.06	0.09	151.30	5	7.83	17.53	0.07
005.00	2	0.00	1.22	0.03	151.99	2	0.00	1.15	0.30
005.99	4	0.00	1.08	0.02	151.XX	7	6.43	16.76	0.09
005.XX	6	0.07	0.97	0.02	165.99	6	0.000	1.047	0.062
009.XX	2	0.00	1.20	0.16	165.XX	7	0.000	1.039	0.061
010.11	11	- 1.19	2.47	0.17	181.30	8	0.88	2.65	0.16
010.12	5	- 7.90	11.47	0.50	181.XX	9	0.85	2.69	0.16
010.60	65	- 0.18	1.62	0.48	190.00	2	0.00	1.22	0.03
010.99	4	- 4.83	6.57	0.72	190.XX	2	0.00	1.22	0.03
010.XX	82	- 0.72	2.41	0.50	191.30	14	- 0.27	1.49	0.12
020.10	2	0.00	1.18	0.23	191.99	3	0.00	1.12	0.04
020.20	4	0.00	1.02	0.31	191.XX	17	0.04	0.99	0.05
020.40	3	0.00	1.05	0.31	202.30	12	0.55	2.14	0.07
020.50	7	0.00	1.03	0.10	202.99	2	0.00	1.21	0.12
020.99	2	- 293.1	414.50	0.50	202.XX	14	0.46	1.98	0.08
020.XX	18	- 0.43	2.21	0.15	221.00	4	0.0000	0.9765	0.3998
030.XX	2	0.00	1.22	0.05	221.30	24	2.8529	12.436	0.4504
040.40	2	0.00	0.96	0.54	221.99	3	0.0000	0.8358	0.6063
040.XX	2	0.00	0.96	0.54	221.XX	31	2.1462	10.852	0.4428
041.10	2	0.00	1.21	0.12	241.00	14	- 0.25	1.35	0.47
041.50	5	0.00	0.90	0.50	241.30	34	0.03	1.00	0.12
041.XX	7	- 0.15	0.87	0.20	241.99	4	0.00	1.07	0.09
050.00	12	0.30	1.40	0.21	241.XX	52	0.00	1.00	0.15
050.30	11	0.24	1.24	0.47	251.30	9	0.83	2.84	0.36
050.50	6	4.06	9.99	0.06	251.99	2	0.00	1.20	0.16
050.51	13	0.00	1.00	0.19	251.XX	11	0.74	2.85	0.37
050.60	5	0.00	1.04	0.19	261.30	11	0.135	1.004	0.700
050.61	11	2.40	9.61	0.66	261.99	2	0.000	1.221	0.069
050.99	15	3.75	9.72	0.29	261.XX	13	0.089	0.995	0.488
050.XX	67	1.92	7.72	0.48	281.30	2	0.00	0.71	0.71
060.00	4	0.00	1.07	0.12	281.XX	2	0.00	0.71	0.71
060.XX	4	0.00	1.07	0.12	289.30	14	- 0.60	2.96	0.67
101.30	18	0.24	1.43	0.23	289.99	2	- 5.48	7.75	0.50
101.XX	18	0.24	1.43	0.23	289.XX	16	- 0.88	2.82	0.53
121.30	21	- 1.04	4.84	0.28	291.30	10	- 1.10	2.58	0.29

## 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
291.XX	11	- 1.04	2.56	0.35					
301.30	3	0.00	1.10	0.16					
301.XX	3	0.00	1.10	0.16					
311.99	5	0.00	1.05	0.14					
311.XX	5	0.00	1.05	0.14					
321.00	5	- 3.074	6.933	0.242					
321.30	28	0.971	5.225	0.485					
321.99	2	0.000	0.480	0.797					
321.XX	35	0.544	4.986	0.473					