

- Pass 1 Results for 74 Labs - - Pass 2 Results for 73 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	3.98	0.10	0.04	6	3.98	0.10	0.04
Ammoniacal Nitrogen, Other		001.99	6	3.98	0.15	0.04	6	3.98	0.15	0.04
Method Group 001.XX PCT			13	4.06	0.30	0.04	12	3.98	0.12	0.04
Nitrate Nitrogen, Other		002.99	2	0.02	0.02	0.01	2	0.02	0.02	0.01
Water Insoluble Nitrogen, Meth I	945.01	003.10	4	3.52	0.14	0.02	4	3.52	0.14	0.02
Water Insoluble Nitrogen, Other		003.99	1	3.37	0.00	0.00	1	3.37	0.00	0.00
Method Group 003.XX PCT			5	3.49	0.14	0.01	5	3.49	0.14	0.01
Nitrogen From Urea, Other		005.99	2	8.54	1.05	0.11	2	8.54	1.05	0.11
Total Nitrogen, Modified Comprehensive	978.02	010.11	8	19.35	0.23	0.07	7	19.31	0.22	0.03
Total Nitrogen, Salicylic	955.04D	010.12	1	19.48	0.02	0.03	1	19.48	0.02	0.03
Total Nitrogen, Raney	970.03	010.16	1	19.15	0.07	0.10	1	19.15	0.07	0.10
Total Nitrogen, Combustion		010.60	53	19.63	0.29	0.14	48	19.63	0.27	0.09
Total Nitrogen, Other		010.99	3	19.36	0.20	0.09	3	19.36	0.20	0.09
Method Group 010.XX PCT			66	19.57	0.30	0.13	61	19.57	0.28	0.09
Total Phosphate, Grav Quimociac	962.02	020.10	2	0.01	0.02	0.00	2	0.01	0.02	0.00
Total Phosphate, Spectrometric	958.01	020.20	11	0.17	0.21	0.03	10	0.15	0.21	0.01
Total Phosphate, Automated	978.01	020.40	2	0.28	0.10	0.08	2	0.28	0.10	0.08
Total Phosphate, ICP		020.50	9	0.06	0.09	0.01	8	0.04	0.06	0.00
Total Phosphate, Other		020.99	1	0.08	0.08	0.12	1	0.08	0.08	0.12
Method Group 020.XX PCT			25	0.12	0.17	0.03	22	0.09	0.11	0.02
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.07	0.00	0.00	1	0.07	0.00	0.00
Insoluble Phosphate, ICP		030.50	1	0.01	0.00	0.01	1	0.01	0.00	0.01
Method Group 030.XX PCT			2	0.04	0.04	0.00	2	0.04	0.04	0.00
InDir Available Phosphate, ICP		040.50	1	0.02	0.00	0.00	1	0.02	0.00	0.00
InDir Available Phosphate, Other		040.99	1	0.08	0.01	0.01	1	0.08	0.01	0.01
Method Group 040.XX PCT			2	0.05	0.04	0.01	2	0.05	0.04	0.01
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	7	0.01	0.01	0.00	5	0.01	0.01	0.00
Dir Available Phosphate, Automated	978.01	041.40	2	0.05	0.05	0.01	2	0.05	0.05	0.01
Dir Available Phosphate, ICP		041.50	7	0.03	0.03	0.01	6	0.02	0.03	0.01
Dir Available Phosphate, EDTA Extract .	993.01	041.60	3	0.02	0.01	0.02	3	0.02	0.01	0.02
Method Group 041.XX PCT			19	0.02	0.03	0.01	17	0.02	0.03	0.01
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	0.15	0.00	0.00	1	0.15	0.00	0.00
Water Soluble Phosphate, ICP		048.50	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 048.XX PCT			2	0.08	0.09	0.00	2	0.08	0.09	0.00
Soluble Potash, STPB Oxalate	958.02	050.00	17	23.23	0.61	0.10	16	23.22	0.63	0.08
Soluble Potash, AA (Oxalate)		050.30	5	23.48	0.56	0.41	5	23.48	0.56	0.41
Soluble Potash, ICP (Oxalate)		050.50	6	22.07	0.70	0.54	6	22.07	0.70	0.54
Soluble Potash, ICP (Citrate)		050.51	11	23.45	0.56	0.20	10	23.55	0.46	0.15
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	5	23.90	0.77	0.22	5	23.90	0.77	0.22

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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
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	7	23.44	0.58	0.25	7	23.44	0.58	0.25
Soluble Potash, Other		050.99	15	23.43	0.93	0.16	14	23.46	0.95	0.13
Method Group 050.XX PCT			66	23.30	0.81	0.22	63	23.32	0.80	0.18
Free Water, Vacuum Oven	965.08B	060.00	6	0.98	0.30	0.05	6	0.98	0.30	0.05
Method Group 060.XX PCT			6	0.98	0.30	0.05	6	0.98	0.30	0.05
Acid Soluble Calcium, ICP		101.30	12	0.11	0.02	0.01	11	0.11	0.02	0.00
Acid Soluble Magnesium, ICP		121.30	12	0.04	0.00	0.00	11	0.04	0.00	0.00
Sulfur, Gravimetric	980.02a	144.01	18	5.00	0.10	0.05	17	5.01	0.09	0.05
Sulfur, Other		144.99	21	4.97	0.28	0.09	19	4.93	0.25	0.05
Method Group 144.XX PCT			40	4.97	0.22	0.08	38	4.95	0.21	0.06
Arsenic, ICP		151.30	9	2.44	2.03	0.52	9	2.44	2.03	0.52
Arsenic, Other		151.99	1	2.10	0.13	0.18	1	2.10	0.13	0.18
Method Group 151.XX PPM			10	2.41	1.93	0.49	10	2.41	1.93	0.49
Acid Soluble Boron, Spectrometric	982.01	165.00	1	0.009	0.000	0.000	1	0.009	0.000	0.000
Acid Soluble Boron, Other		165.99	3	0.006	0.004	0.000	3	0.006	0.004	0.000
Method Group 165.XX PCT			4	0.007	0.003	0.000	4	0.007	0.003	0.000
Cadmium, ICP		181.30	9	0.96	0.85	0.22	8	0.98	0.88	0.14
Cadmium, Other		181.99	1	0.42	0.05	0.07	1	0.42	0.05	0.07
Method Group 181.XX PPM			10	0.90	0.82	0.21	9	0.92	0.85	0.13
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	5	17.58	0.63	0.29	5	17.58	0.63	0.29
Water Soluble Chlorine, Other		190.99	6	18.15	0.87	0.19	5	18.00	0.86	0.08
Method Group 190.XX PCT			11	17.89	0.80	0.24	11	17.89	0.80	0.24
Chromium, ICP		191.30	11	82.25	20.01	2.43	11	82.25	20.01	2.43
Chromium, Other		191.99	3	57.33	26.23	2.27	3	57.33	26.23	2.27
Method Group 191.XX PPM			14	76.91	23.39	2.40	14	76.91	23.39	2.40
Acid Soluble Cobalt, AA		202.00	1	37.36	1.15	1.62	1	37.36	1.15	1.62
Acid Soluble Cobalt, ICP	965.11	202.30	13	28.07	6.74	1.98	13	28.07	6.74	1.98
Acid Soluble Cobalt, Other		202.99	2	18.42	2.99	0.31	2	18.42	2.99	0.31
Method Group 202.XX PPM			16	27.44	7.40	1.75	14	26.57	7.36	1.12
Acid Soluble Copper, Atomic Absorption	975.01	221.00	5	0.0266	0.0026	0.0009	5	0.0266	0.0026	0.0009
Acid Soluble Copper, ICP		221.30	18	0.0259	0.0021	0.0011	18	0.0259	0.0021	0.0011
Acid Soluble Copper, Other		221.99	1	0.0260	0.0014	0.0020	1	0.0260	0.0014	0.0020
Method Group 221.XX PCT			24	0.0260	0.0021	0.0011	24	0.0260	0.0021	0.0011
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	14	3.09	0.32	0.06	13	3.07	0.33	0.05
Acid Soluble Iron, ICP		241.30	29	3.17	0.33	0.12	27	3.16	0.33	0.09
Acid Soluble Iron, Other		241.99	1	3.03	0.01	0.02	1	3.03	0.01	0.02
Method Group 241.XX PCT			44	3.14	0.32	0.10	41	3.13	0.33	0.07
Lead, ICP		251.30	8	9.14	1.06	0.60	8	9.14	1.06	0.60
Lead, Other		251.99	1	7.80	0.42	0.60	1	7.80	0.42	0.60

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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 251.XX PPM			9	8.99	1.09	0.60	9	8.99	1.09	0.60
Acid Soluble Manganese, AA	972.02a	261.00	1	0.046	0.004	0.005	1	0.046	0.004	0.005
Acid Soluble Manganese, ICP	972.02a	261.30	15	0.049	0.004	0.001	15	0.049	0.004	0.001
Acid Soluble Manganese, Other		261.99	1	0.047	0.001	0.001	1	0.047	0.001	0.001
Method Group 261.XX PCT			17	0.048	0.004	0.001	16	0.049	0.004	0.001
Mercury, ICP		281.30	2	3.32	4.04	1.60	2	3.32	4.04	1.60
Mercury, Other		281.99	1	0.06	0.01	0.02	1	0.06	0.01	0.02
Method Group 281.XX PPM			3	2.23	3.55	1.07	3	2.23	3.55	1.07
Molybdenum, ICP		289.30	12	8.84	1.34	0.47	11	8.65	1.17	0.33
Molybdenum, Other		289.99	1	5.74	0.05	0.08	1	5.74	0.05	0.08
Method Group 289.XX PPM			13	8.61	1.53	0.44	12	8.41	1.39	0.31
Nickel, Atomic Absorption		291.00	1	48.75	1.34	1.89	1	48.75	1.34	1.89
Nickel, ICP		291.30	12	43.02	6.05	1.64	11	42.51	5.99	1.28
Method Group 291.XX PPM			13	43.46	6.01	1.66	12	43.03	6.00	1.33
Selenium, ICP		301.30	4	0.75	1.17	0.15	3	0.13	0.12	0.01
Sodium, Atomic Absorption	983.04	311.00	1	0.15	0.00	0.00	1	0.15	0.00	0.00
Sodium, Other		311.99	5	0.21	0.01	0.00	5	0.21	0.01	0.00
Method Group 311.XX PCT			6	0.20	0.03	0.00	5	0.20	0.03	0.00
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	13	0.276	0.018	0.013	11	0.278	0.014	0.005
Acid Soluble Zinc, ICP		321.30	31	0.288	0.016	0.007	30	0.289	0.014	0.006
Method Group 321.XX PCT			44	0.284	0.018	0.008	41	0.286	0.015	0.006
Water Soluble Zinc, ICP		325.30	2	0.269	0.041	0.020	2	0.269	0.041	0.020
Water Soluble Zinc, Other		325.99	2	0.253	0.050	0.010	2	0.253	0.050	0.010
Method Group 325.XX PCT			4	0.261	0.043	0.015	4	0.261	0.043	0.015

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: 005.99 PCT			Meth: 010.60 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>Other</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>		
257	5.02 s	10.47	368	3.92	-.57	029	9.44	.87	428	20.10	1.76	230	19.45	-.88
090	4.14	1.53	232	3.90	-.77	Avg	8.54		262	19.75 R	1.75	307	19.38	-.95
029	4.04	.58	456	3.87	-.96	419	7.64	-.86	037	19.95	1.21	325	19.35	-1.07
230	4.03	.44	255	3.86	-1.04				292	19.92	1.09	406	19.34	-1.12
Avg	3.98		027	3.85	-1.09	Meth: 010.11 PCT			022	19.65 R	.94	255	19.40	-1.16
291	3.94	-.49	419	2.22 s	-14.50	<u>Total Nitrogen</u>			096	19.87	.90	042	19.45 R	-1.16
232	3.90	-.97	117	1.96 s	-16.64	<u>Modified Comprehensi</u>			034	19.85	.84	451	19.31	-1.21
456	3.87	-1.20	Meth: 002.99 PCT			460	19.68	1.67	233	19.78	.82	426	19.31	-1.31
117	1.96 s	-20.62	<u>Nitrate Nitrogen</u>			114	19.61 R	1.57	023	19.80	.78	443	19.25	-1.44
			<u>Other</u>			456	19.43	.54	368	19.80	.62	027	19.24	-1.49
Meth: 001.99 PCT			232	0.04	.88	073	19.38	.29	049	19.74	.49	024	19.22	-1.56
<u>Ammoniacal Nitrogen</u>			Avg	0.02		090	19.36	.19	330	19.75	.49	007	19.20 R	-2.21
<u>Other</u>			393	0.00 X	-.85	Avg	19.31		055	19.73	.37	361	19.01	-2.35
393	7.47 s	23.87	Meth: 003.10 PCT			029	19.22	-.47	102	19.65	.36	106	14.15 s	-20.60
371	5.32 S	9.18	<u>Water Insoluble Nitr</u>			416	19.19	-.60	291	19.72	.32	Meth: 010.99 PCT		
420	4.25	1.84	<u>Meth I</u>			211	18.96	-1.65	296	19.71	.31	<u>Total Nitrogen</u>		
096	4.05	.51	230	3.74	1.60	457	16.25 s	-14.15	234	19.68	.27	<u>Other</u>		
Avg	3.98		Avg	3.52		Meth: 010.12 PCT			450	19.70	.26	420	19.50	.70
397	3.96	-.31	057	3.48	-.37	<u>Total Nitrogen</u>			231	19.67	.21	371	19.48	.64
368	3.92	-.46	090	3.44	-.61	<u>Salicylic</u>			177	19.67	.21	Avg	19.36	
255	3.86	-.86	029	3.44	-.65	Avg	19.48		136	19.66	.19	255	19.11	-1.26
027	3.85	-.90	Meth: 003.99 PCT			397	19.48	-.71	040	19.66	.16	Meth: 010.XX PCT		
419	2.22 S	-12.08	<u>Water Insoluble Nitr</u>			455	18.40 S	-50.68	029	19.64	.02	<u>Total Nitrogen</u>		
			<u>Other</u>			Meth: 010.16 PCT			Avg	19.63		393	20.40	2.94
Meth: 001.XX PCT			027	3.37	.00	<u>Total Nitrogen</u>			028	19.61	-.13	453	20.11 R	2.20
<u>Ammoniacal Nitrogen</u>			Meth: 003.XX PCT			<u>Raney</u>			247	19.61	-.14	360	20.12	1.97
393	7.47 s	28.61	<u>Water Insoluble Nitr</u>			419	19.15	.71	131	19.62	-.14	095	20.11	1.91
371	5.32 s	11.00	230	3.74	1.83	Meth: 010.60 PCT			232	19.59	-.17	428	20.10	1.89
257	5.02 A	8.47	Avg	3.49		<u>Total Nitrogen</u>			041	19.58	-.22	262	19.75 R	1.73
420	4.25	2.19	057	3.48	-.17	<u>Combustion</u>			009	19.57	-.26	037	19.95	1.37
090	4.14	1.25	090	3.44	-.38	393	20.40	2.87	043	19.59	-.30	292	19.92	1.25
096	4.05	.60	029	3.44	-.43	453	20.11 R	2.13	405	19.55	-.34	096	19.87	1.07
029	4.04	.48	027	3.37	-.90	360	20.12	1.85	377	19.52	-.42	034	19.85	1.01
230	4.03	.37	Meth: 010.60 PCT			095	20.11	1.79	402	19.46	-.64	233	19.78	.94
Avg	3.98		<u>Combustion</u>			Meth: 010.60 PCT			057	19.47	-.66	022	19.65 R	.94
397	3.96	-.38	393	20.40	2.87	<u>Total Nitrogen</u>								
291	3.94	-.39	453	20.11 R	2.13	<u>Combustion</u>								
			360	20.12	1.85	<u>Other</u>								
			095	20.11	1.79	<u>Combustion</u>								
						<u>Total Nitrogen</u>								
						<u>Other</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: 010.XX PCT			Meth: 010.XX PCT			Meth: 020.20 PCT			Meth: 020.XX PCT			Meth: 030.50 PCT		
<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>		
023	19.80	.92	090	19.36	-.77	<u>Spectrometric</u>			262	4.25 s	39.09	<u>ICP</u>		
368	19.80	.81	325	19.35	-.81	Avg	0.15		455	1.15 s	9.98	255	0.01	-.71
330	19.75	.67	406	19.34	-.85	450	0.07	-.41	114	1.05 s	9.03	Meth: 030.XX PCT		
049	19.74	.65	451	19.31	-.93	292	0.06	-.43	428	0.73 A	6.01	<u>Insoluble Phosphate</u>		
114	19.61	.64	255	19.40	-.95	177	0.04	-.52	324	0.34 R	2.63	405	0.07	.86
055	19.73	.56	042	19.45 R	-.99	419	0.02	-.61	096	0.36	2.57	Avg 0.04		
291	19.72	.52	426	19.31	-1.05	460	0.00	-.71	432	0.26	1.57	255	0.01	-.87
296	19.71	.50	443	19.25	-1.16	257	0.00	-.71	406	0.25	1.48	Meth: 040.50 PCT		
450	19.70	.46	027	19.24	-1.20	Meth: 020.40 PCT			042	0.20	1.09	InDir Available Phos		
324	19.70	.46	029	19.22	-1.26	<u>Total Phosphate</u>			420	0.20	1.06	<u>ICP</u>		
102	19.65	.43	024	19.22	-1.27	<u>Automated</u>			330	0.20	1.05	255	0.02	.71
234	19.68	.42	416	19.19	-1.37	096	0.36	.84	405	0.16	.63	Meth: 040.99 PCT		
177	19.67	.38	419	19.15	-1.51	Avg	0.28		Avg	0.09		InDir Available Phos		
231	19.67	.37	255	19.11	-1.65	042	0.20	-.89	450	0.07	-.26	Other		
460	19.68	.37	007	19.20 R	-1.94	Meth: 020.50 PCT			292	0.06	-.27	405 0.08 .71		
136	19.66	.34	361	19.01	-2.02	<u>Total Phosphate</u>			247	0.05	-.37	Meth: 040.XX PCT		
040	19.66	.33	211	18.96	-2.19	<u>ICP</u>			177	0.04	-.45	InDir Available Phos		
043	19.59	.24	455	18.40 s	-4.17	432	0.26 R	3.33	255	0.03	-.53	405 0.08 .71		
029	19.64	.23	457	16.25 s	-11.86	330	0.20	2.47	443	0.08 R	-.57	Meth: 040.XX PCT		
390	19.58	.22	106	14.15 s	-19.33	247	0.05	.22	090	0.03	-.60	InDir Available Phos		
131	19.62	.20	Meth: 020.10 PCT			361	0.02	-.31	419	0.02	-.63	405 0.08 .87		
247	19.61	.18	<u>Total Phosphate</u>			Avg	0.04		402	0.01	-.69	Avg 0.05		
028	19.61	.15	<u>Grav Quimociac</u>			255	0.03	-.13	368	0.01	-.78	255 0.02 -.86		
041	19.58	.06	114	1.05 S	69.17	361	0.02	-.31	393	0.00 X	-.83	Meth: 041.10 PCT		
232	19.59	.06	090	0.03	.90	402	0.01	-.40	041	0.00	-.83	Dir Available Phosph		
Avg	19.57		Avg	0.01		368	0.01	-.54	257	0.00	-.83	<u>Grav Quimociac</u>		
009	19.57	-.09	041	0.00	-.83	393	0.00 X	-.62	460	0.00	-.83	296 0.16 s 24.34		
405	19.55	-.13	Meth: 020.20 PCT			390	0.00	-.62	390	0.00	-.83	055 0.03 R 2.06		
377	19.52	-.19	<u>Total Phosphate</u>			Meth: 020.99 PCT			Meth: 030.20 PCT			040 0.02 1.44		
420	19.50	-.27	<u>Spectrometric</u>			<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>			185 0.02 R 1.05		
397	19.48	-.34	262	4.25 s	19.13	<u>Other</u>			<u>Spectrometric</u>			211 0.01 .84		
402	19.46	-.39	428	0.73	2.69	455	1.15 S	12.62	405	0.07	.00	Avg 0.01		
371	19.48	-.41	324	0.34 R	1.04	443	0.08	.71				260 0.00 -.76		
057	19.47	-.44	406	0.25	.44	Avg 0.08						049 0.00 -.76		
456	19.43	-.51	420	0.20	.24							029 0.00 -.76		
230	19.45	-.69	405	0.16	.03									
307	19.38	-.69												
073	19.38	-.70												

* 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: 041.20 PCT			Meth: 041.XX PCT			Meth: 050.00 PCT			Meth: 050.50 PCT			Meth: 050.61 PCT		
<u>Dir Available Phosph Spectrometric</u>			<u>Dir Available Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
262	0.60 S	.00	043	0.07	1.66	<u>STPB Oxalate</u>			<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>		
			023	0.05	1.16	009	24.62	2.24	Avg	22.07		Avg	23.44	
			296	0.02	.36	211	23.76	.86	420	21.96	-.29	034	23.31	-.33
Meth: 041.40 PCT			055 0.03 .27			247 23.55 .54			426 21.50 -.92			028 23.18 -.47		
<u>Dir Available Phosph Automated</u>			040 0.02 .01			114 23.52 .50			292 21.31 -1.08			456 23.03 -.76		
095	0.25 S	3.52	Avg	0.02		231	23.50	.46				041	22.75	-1.34
027	0.10	.86	211	0.01	-.19	055	23.46	.39	Meth: 050.51 PCT					
Avg	0.05		185	0.02	-.25	397	23.39 R	.39	<u>Soluble Potash</u>			Meth: 050.99 PCT		
029	0.01	-.87	073	0.01	-.34	057	23.44	.35	<u>ICP (Citrate)</u>			<u>Soluble Potash</u>		
			361	0.01	-.35	090	23.37	.26	393	24.41	1.88	<u>Other</u>		
			029	0.01	-.56	296	23.28	.20	007	23.65	.70	402	24.69	1.29
Meth: 041.50 PCT			043 0.02 R -.57			049 23.24 .04			432 23.85 .66			450 24.56 1.17		
<u>Dir Available Phosph ICP</u>			325 0.00 -.72			Avg 23.22			291 23.80 .54			360 24.41 1.00		
377	0.08 R	2.12	360	0.00	-.72	102	22.97	-.39	009	23.76	.47	330	23.95	.54
043	0.07	1.58	049	0.00	-.72	043	22.96	-.41	023	23.61	.12	131	23.92	.48
023	0.05	1.10	029	0.00	-.72	416	22.92	-.48	Avg	23.55		325	23.85	.42
Avg	0.02		393	0.00 X	-.72	029	22.69	-.84	377	23.36	-.42	177	23.74	.30
361	0.01	-.39	260	0.00	-.72	022	22.55	-1.07	361	23.18	-.82	405	23.69	.25
360	0.00	-.74	Meth: 048.20 PCT			257	21.65	-2.50	043	23.03	-1.15	027	23.60	.15
393	0.00 X	-.74	<u>Water Soluble Phosph</u>			230	20.15 s	-4.99	453	22.88	-1.53	Avg	23.46	
325	0.00	-.74	<u>Spectrometric</u>			Meth: 050.30 PCT			Meth: 050.60 PCT			368 23.24 -.23		
			420	0.15	.00	<u>Soluble Potash</u>			<u>Soluble Potash</u>			042 23.10 R -.49		
Meth: 041.60 PCT			Meth: 048.50 PCT			<u>AA (Oxalate)</u>			<u>Flame (Oxalate)</u>			232 22.88 -.61		
<u>Dir Available Phosph EDTA Extract</u>			<u>Water Soluble Phosph</u>			073	23.91	1.20	443	25.07	1.55	255 22.40 -1.11		
296	0.02	.91	<u>ICP</u>			040	23.89	.78	406	24.38	.63	260 22.19 -1.35		
Avg	0.02		393	0.00 X	.00	185	23.70	.43	Avg	23.90		371 21.31 -2.26		
073	0.01	-.40	Meth: 048.XX PCT			Avg	23.48		131	23.54	-.48	457 19.80 S -3.84		
043	0.02	-1.23	<u>Water Soluble Phosph</u>			262	23.19	-.62	460	23.35	-.74	455 17.85 s -5.89		
Meth: 041.XX PCT			420 0.15 .87			Meth: 050.50 PCT			055 23.17			Meth: 050.XX PCT		
<u>Dir Available Phosph</u>			Avg 0.08			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
262	0.60 s	21.13	393	0.00 X	-.87	<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>			451 28.27 s 7.12		
095	0.25 s	8.21				451	28.27 s	9.64	095	24.49	1.84	443 25.07 2.22		
296	0.16 s	7.75				419	23.05	1.48	024	23.79	.60	402 24.69 1.72		
027	0.10	2.91				324	22.30	1.05	029	23.57	.22	009 24.62 1.64		
377	0.08 R	2.21				390	22.30	.36				450 24.56 1.58		
												095 24.49 1.49		
												360 24.41 1.37		

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 060.99 PCT			Meth: 121.30 PCT			Meth: 144.99 PCT		
<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>		
393	24.41	1.37	043	23.03	-.37	<u>Other</u>			<u>ICP</u>			<u>Other</u>		
406	24.38	1.34	456	23.03	-.40	443	8.19	S .00	027	0.05	1.56	040	10.84	s 23.50
073	23.91	R .99	102	22.97	-.44	Meth: 060.XX PCT			057	0.04	.62	117	5.42	R 2.15
330	23.95	.82	043	22.96	-.45	<u>Free Water</u>			131	0.04	.61	291	5.40	1.85
131	23.92	.75	042	23.10	-.47	443	8.19	s 24.22	Avg	0.04		307	5.31	1.51
040	23.89	.74	416	22.92	-.51	096	1.54	1.87	096	0.04	-.05	131	5.31	1.48
325	23.85	.67	232	22.88	-.55	456	0.99	.17	102	0.04	-.05	177	5.18	R 1.18
432	23.85	.67	419	23.05	-.55	007	1.03	.16	009	0.04	-.23	360	5.12	.72
291	23.80	.60	453	22.88	-.61	Avg			390	0.04	-.41	232	5.08	.58
024	23.79	.59	043	22.71	-.77	363	0.98		363	0.04	-.86	009	5.07	.54
007	23.65	.56	029	22.69	-.79	247	0.90	-.27	232	0.04	-1.35	231	5.03	.43
009	23.76	.55	041	22.75	-.83	416	0.84	-.49	307	0.04	-1.42	361	5.01	.32
211	23.76	.55	022	22.55	-.97	Meth: 101.30 PCT			Meth: 144.01 PCT			Avg		
177	23.74	.53	255	22.40	-1.16	<u>Acid Soluble Calcium</u>			<u>Sulfur</u>			027		
185	23.70	.50	022	22.44	R -1.20	<u>ICP</u>			<u>Gravimetric</u>			393		
405	23.69	.47	390	22.30	-1.29	393	0.20	s 5.60	055	5.15	1.76	450	4.92	-.26
023	23.61	.36	260	22.19	-1.44	057	0.15	R 3.32	405	5.14	1.47	457	4.90	-.41
027	23.60	.35	324	22.30	R -1.55	027	0.15	2.72	262	5.11	1.06	368	4.82	-.44
029	23.57	.32	420	21.96	-1.72	453	0.12	1.06	457	5.11	1.06	247	4.79	-.56
247	23.55	.30	257	21.65	-2.10	096	0.11	.14	296	5.07	.74	363	4.79	-.56
131	23.54	.27	426	21.50	-2.32	Avg			397	5.02	.47	390	4.71	-.87
114	23.52	.27	292	21.31	-2.52	131	0.11	-.06	419	5.03	.29	453	4.69	-.94
231	23.50	.24	371	21.31	-2.53	307	0.10	-.45	Avg			049	4.48	-1.76
397	23.39	.23	230	20.15	s -4.07	102	0.10	-.49	095	5.01	-.05	255	4.47	-1.83
460	23.35	.19	457	19.80	s -4.42	247	0.10	-.49	057	5.01	-.21	023	2.46	s -9.72
055	23.46	.18	455	17.85	s -6.87	363	0.10	-.52	073	5.00	-.29	Meth: 144.XX PCT		
057	23.44	.15	Meth: 060.00 PCT			022	0.10	-.53	102	4.98	-.55	<u>Sulfur</u>		
090	23.37	.09	<u>Free Water</u>			232	0.10	-.60	029	5.01	-.59	040	10.84	s 28.92
377	23.36	.07	<u>Vacuum Oven</u>			009	0.10	-.62	114	4.93	-.99	117	5.42	R 2.56
Avg	23.32		096	1.54	1.87	Meth: 121.30 PCT			043	4.93	-.99	291	5.40	2.17
049	23.24	-.10	456	0.99	.17	<u>Acid Soluble Magnesi</u>			324	4.99	-1.05	307	5.31	1.75
368	23.24	-.11	007	1.03	.16	<u>ICP</u>			028	4.89	-1.46	131	5.31	1.72
296	23.28	-.15	Avg			393	0.06	s 5.39	371	4.89	-1.48	177	5.18	R 1.37
034	23.31	-.17	363	0.90	-.27	453	0.04	R 2.10	106	4.77	R -3.05	055	5.15	1.01
361	23.18	-.18	247	0.84	-.49	022	0.05	1.58	230	4.57	s -5.33	405	5.14	.90
028	23.18	-.19	416	0.60	-1.28	Meth: 121.30 PCT			450	2.30	s -31.80	360	5.12	.78
055	23.17	-.24	Avg			<u>Acid Soluble Magnesi</u>			Meth: 121.30 PCT			262	5.11	.73
262	23.19	-.29	<u>Vacuum Oven</u>			<u>ICP</u>			<u>Acid Soluble Magnesi</u>			Meth: 121.30 PCT		

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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.XX PCT			Meth: 151.30 PPM			Meth: 165.99 PCT			Meth: 181.XX PPM			Meth: 190.XX PCT		
<u>Sulfur</u>			<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Cadmium</u>			<u>Water Soluble Chlori</u>		
457	5.11	.73	ICP			Other			419	2.35	1.71	028	18.12	.29
232	5.08	.60	368	6.00	1.78	363	0.011	1.24	Avg	0.92		029	17.97	.11
296	5.07	.58	232	4.52	1.04	Avg	0.006		247	0.90	-.12	009	17.94	.07
009	5.07	.55	390	4.06	.83	232	0.005	-.30	009	0.80	-.14	Avg	17.89	
324	4.99	.44	393	2.99	.27	453	0.002	-.93	296	0.60	-.40	027	17.32	-.71
231	5.03	.43	Avg	2.44		Meth: 165.XX PCT			368	0.75 R	-.57	043	17.20	-.88
419	5.03	.38	296	1.70	-.38	<u>Acid Soluble Boron</u>			231	0.42	-.59	397	17.13	-.95
397	5.02	.37	247	1.50	-.52	363	0.011	1.11	393	0.42	-.59	023	16.65 X	-1.58
029	5.01	.36	102	0.63	-.89	393	0.009	.67	102	0.38	-.64	Meth: 191.30 PPM		
361	5.01	.29	291	0.59	-.91	Avg	0.007		450	0.00	-1.08	<u>Chromium</u>		
095	5.01	.27	450	0.00	-1.20	232	0.005	-.55	Meth: 190.00 PCT			<u>ICP</u>		
057	5.01	.25	Meth: 151.99 PPM			453	0.002	-1.23	<u>Water Soluble Chlori</u>			419	173.50 s	4.56
073	5.00	.24	<u>Arsenic</u>			Meth: 181.30 PPM			<u>Titrimetric</u>			393	129.45	2.36
102	4.98	.16	<u>Other</u>			<u>Cadmium</u>			028	18.12	.85	291	98.07	.79
Avg	4.95		231	2.10	.71	<u>ICP</u>			057	17.99	.77	368	89.00	.39
114	4.93	-.12	Meth: 151.XX PPM			291	9.00 s	9.08	029	17.97	.61	009	84.55	.15
043	4.93	-.12	<u>Arsenic</u>			232	2.42	1.62	Avg	17.58		450	82.50	.03
027	4.93	-.15	368	6.00	1.90	419	2.35	1.57	043	17.20	-.64	Avg	82.25	
393	4.89 X	-.31	232	4.52	1.12	Avg	0.98		023	16.65 X	-1.55	247	80.50	-.09
028	4.89	-.32	390	4.06	.89	247	0.90	-.15	Meth: 190.99 PCT			096	80.00	-.19
371	4.89	-.33	393	2.99	.30	009	0.80	-.21	<u>Water Soluble Chlori</u>			232	77.55	-.24
450	4.92	-.37	Avg	2.41		296	0.60	-.45	<u>Other</u>			102	74.18	-.40
457	4.90	-.55	231	2.10	-.17	368	0.75 R	-.57	419	19.45	1.68	027	55.49	-1.34
368	4.82	-.65	296	1.70	-.38	393	0.42	-.64	368	18.89 R	1.11	037	53.44	-1.44
247	4.79	-.80	247	1.50	-.54	102	0.38	-.68	460	18.15	.19	Meth: 191.99 PPM		
363	4.79	-.80	102	0.63	-.92	450	0.00	-1.11	Avg	18.00		<u>Chromium</u>		
106	4.77	-1.00	291	0.59	-.94	Meth: 181.99 PPM			009	17.94	-.08	<u>Other</u>		
390	4.71	-1.19	450	0.00	-1.25	<u>Cadmium</u>			027	17.32	-.79	457	90.47	1.27
453	4.69	-1.28	Meth: 165.00 PCT			<u>Other</u>			397	17.13	-1.01	Avg	57.33	
230	4.57	-1.93	<u>Acid Soluble Boron</u>			231	0.42	-.71	Meth: 190.XX PCT			405	46.50	-.41
049	4.48	-2.29	<u>Spectrometric</u>			Meth: 181.XX PPM			<u>Water Soluble Chlori</u>			231	35.02	-.85
255	4.47	-2.37	393	0.009	-.71	<u>Cadmium</u>			419	19.45	1.94	Meth: 191.XX PPM		
023	2.46 s	-12.12	Meth: 181.99 PPM			291 9.00 s 9.52			368	18.89	1.31	<u>Chromium</u>		
450	2.30 s	-12.94	232 2.42 1.76			460 18.15 .33			057	17.99	.36	419	173.50 s	4.13
									460	18.15	.33	393	129.45	2.25

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 191.XX PPM</u>			<u>Meth: 202.99 PPM</u>			<u>Meth: 221.30 PCT</u>			<u>Meth: 221.XX PCT</u>			<u>Meth: 241.30 PCT</u>		
<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>		
291	98.07	.91	Other			ICP			324	0.0265	.73	ICP		
457	90.47	.59	393	21.01	.86	433	0.2740 s	120.44	057	0.0272	.72	117	4.04	2.67
368	89.00	.54	Avg	18.42		419	0.0493 s	11.37	027	0.0270	.46	057	3.32 R	.99
009	84.55	.34	231	15.84	-.87	102	0.0300	2.01	095	0.0264	.38	330	3.40 R	.95
450	82.50	.24				009	0.0283	1.33	307	0.0261	.10	360	3.46	.91
096	80.00	.18	<u>Meth: 202.XX PPM</u>			247	0.0278	.96	Avg	0.0260		073	3.44	.84
247	80.50	.16	<u>Acid Soluble Cobalt</u>			368	0.0272	.91	041	0.0255	-.34	432	3.42	.79
232	77.55	.06	457	37.36	1.47	057	0.0272	.82	402	0.0255	-.34	027	3.41	.76
Avg	76.91		057	36.12 R	1.37	324	0.0265	.79	131	0.0256	-.37	450	3.36	.61
102	74.18	-.12	291	36.33	1.33	027	0.0270	.55	393	0.0252	-.41	324	3.35	.58
027	55.49	-.92	419	36.00	1.28	095	0.0264	.44	231	0.0260	-.47	131	3.34	.55
037	53.44	-1.00	368	31.00 R	.73	307	0.0261	.15	460	0.0249	-.53	041	3.28	.47
405	46.50	-1.30	009	30.95	.60	Avg	0.0259		022	0.0250	-.67	291	3.31	.45
231	35.02	-1.79	096	30.50	.57	402	0.0255	-.30	232	0.0244	-.79	009	3.28	.40
			296	30.15	.56	041	0.0255	-.30	043	0.0242	-.85	232	3.21	.26
			450	30.50	.54	393	0.0252	-.35	096	0.0241	-.93	096	3.24	.25
<u>Meth: 202.00 PPM</u>			<u>Avg</u>			<u>26.57</u>			<u>022</u>			<u>0.0239</u>		
<u>Acid Soluble Cobalt</u>			<u>390</u>			<u>23.95</u>			<u>450</u>			<u>0.0231</u>		
<u>AA</u>			<u>037</u>			<u>23.40</u>			<u>453</u>			<u>0.0220</u>		
457	37.36	.71	037	23.40	-.43	096	0.0241	-.89						
			393	21.01	-.76	022	0.0239	-1.01	<u>Meth: 241.00 PCT</u>			<u>405</u>		
			232	20.50	-.83	450	0.0231	-1.36	<u>Acid Soluble Iron</u>			<u>390</u>		
<u>Meth: 202.30 PPM</u>			<u>102</u>			<u>19.02</u>			<u>Atomic Absorption</u>			<u>426</u>		
<u>Acid Soluble Cobalt</u>			<u>247</u>			<u>16.50</u>			<u>457</u>			<u>3.45</u>		
<u>ICP</u>			<u>231</u>			<u>15.84</u>			<u>055</u>			<u>3.39</u>		
057	36.12	1.28				<u>Meth: 221.99 PCT</u>			<u>043</u>			<u>3.34</u>		
291	36.33	1.23	<u>Meth: 221.00 PCT</u>			<u>Acid Soluble Copper</u>			<u>460</u>			<u>3.30 R</u>		
419	36.00	1.18	<u>Acid Soluble Copper</u>			<u>Other</u>			<u>028</u>			<u>3.27</u>		
368	31.00	.62	<u>Atomic Absorption</u>			<u>231</u>			<u>028</u>			<u>3.27</u>		
009	30.95	.44	262	0.0300	1.30	<u>Meth: 221.XX PCT</u>			<u>040</u>			<u>3.28</u>		
296	30.15	.43	457	0.0290	.99	<u>Acid Soluble Copper</u>			<u>029</u>			<u>3.27</u>		
096	30.50	.42	Avg	0.0266		<u>433</u>			<u>296</u>			<u>3.20</u>		
450	30.50	.36	460	0.0249	-.66	<u>419</u>			<u>371</u>			<u>3.21</u>		
Avg	28.07		022	0.0250	-.73	<u>102</u>			<u>Avg</u>			<u>3.07</u>		
390	23.95	-.61	043	0.0242	-.93	<u>262</u>			<u>397</u>			<u>2.97</u>		
037	23.40	-.69				<u>457</u>			<u>022</u>			<u>2.88</u>		
232	20.50	-1.13				<u>009</u>			<u>177</u>			<u>2.69</u>		
102	19.02	-1.35				<u>247</u>			<u>363</u>			<u>2.63</u>		
247	16.50	-1.72				<u>368</u>			<u>262</u>			<u>2.41</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: 241.99 PCT			Meth: 241.XX PCT			Meth: 251.XX PPM			Meth: 261.99 PCT			Meth: 281.XX PPM		
<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>Mercury</u>		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>		
234	3.03	-.71	397	2.97	-.50	291	41.01 s	29.40	393	0.047	.71	393	6.63	1.32
			368	3.12 R	-.52	419	31.00 s	20.52				Avg	2.23	
			042	2.90	-.78	368	10.80	1.68				009	0.06	-.61
Meth: 241.XX PCT			022 2.88 -.81			450 10.50 1.46			Meth: 261.XX PCT			291 0.02 -.62		
<u>Acid Soluble Iron</u>			095 2.86 -.84			009 9.20 .26			<u>Acid Soluble Manganese</u>					
117	4.04	2.79	177	2.69	-1.36	Avg	8.99		419	0.096 s	12.74	Meth: 289.30 PPM		
057	3.32 R	1.05	393	2.69	-1.38	393	8.74	-.24	027	0.055	1.73	Molybdenum		
330	3.40 R	1.02	363	2.63	-1.56	390	8.93	-.38	073	0.053	1.06	<u>ICP</u>		
360	3.46	1.00	114	2.62	-1.62	296	8.60	-.45	402	0.052	.92	419	20.50 s	10.13
457	3.45	.97	419	2.53	-1.89	102	8.72	-.55	057	0.051	.69	291	18.44 s	8.37
073	3.44	.93	231	2.51	-1.94	231	7.80	-1.13	041	0.050	.46	057	11.02 R	2.20
432	3.42	.88	262	2.41	-2.24	232	7.66	-1.23	102	0.050	.37	390	9.90	1.10
027	3.41	.85	453	1.70 s	-4.42	Meth: 261.00 PCT			131	0.050	.33	368	9.90	1.08
055	3.39	.79	023	1.65 s	-4.56	<u>Acid Soluble Manganese</u>			390	0.050	.29	247	9.50	.84
450	3.36	.69	247	0.95 s	-6.72	<u>AA</u>			009	0.049	.28	433	9.62	.84
324	3.35	.67	420	0.26 s	-8.83	022 0.046 .71			096	0.049	.02	232	9.14	.45
131	3.34	.64	Meth: 251.30 PPM			Meth: 261.30 PCT			Avg	0.049		450	9.00	.30
043	3.34	.63	<u>Lead</u>			<u>Acid Soluble Manganese</u>			022	0.048	-.20	Avg	8.65	
460	3.30	.60	<u>ICP</u>			<u>ICP</u>			247	0.048	-.26	393	8.41	-.24
041	3.28	.54	291	41.01 S	30.13	419	0.096 s	12.44	393	0.047	-.61	296	8.10	-.47
291	3.31	.53	419	31.00 S	20.99	027	0.055	1.66	022	0.046 R	-1.09	102	8.06	-.51
009	3.28	.48	368	10.80	1.59	073	0.053	1.00	232	0.044	-1.34	037	7.40	-1.06
028	3.27	.47	450	10.50	1.37	402	0.052	.86	307	0.043	-1.46	009	6.10	-2.18
040	3.28	.46	009	9.20	.20	057	0.051	.64	453	0.041	-2.24	Meth: 289.99 PPM		
029	3.27	.43	Avg	9.14		041	0.050	.42	Meth: 281.30 PPM			Molybdenum		
096	3.24	.33	393	8.74	-.39	102	0.050	.33	<u>Mercury</u>			<u>Other</u>		
232	3.21	.32	390	8.93	-.43	131	0.050	.29	<u>ICP</u>			231 5.74 -.71		
296	3.20	.28	296	8.60	-.59	009	0.049	.25	393	6.63	.91	Meth: 289.XX PPM		
402	3.22	.26	102	8.72	-.64	390	0.050	.25	Avg	3.32		Molybdenum		
433	3.20	.25	232	7.66	-1.40	Avg	0.049		291	0.02	-.82	<u>Other</u>		
255	3.21	.24	Meth: 251.99 PPM			096 0.049 -.02			Meth: 281.99 PPM			419 20.50 s 8.73		
371	3.21	.22	<u>Lead</u>			022 0.048 -.23			<u>Mercury</u>			291 18.44 s 7.24		
Avg	3.13		<u>Other</u>			247 0.048 -.28			<u>Other</u>			057 11.02 R 2.02		
405	3.13	-.09	231	7.80	-.71	232	0.044	-1.35	009 0.06 .71			390 9.90 1.10		
390	3.09	-.18				307 0.043 -1.46						368 9.90 1.09		
426	3.13	-.28				453 0.041 -2.24						433 9.62 .88		
234	3.03	-.32										247 9.50 .87		
102	3.00	-.45												

* 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: 311.99 PCT</u>			<u>Meth: 321.30 PCT</u>			<u>Meth: 321.XX PCT</u>		
<u>Molybdenum</u>			<u>Nickel</u>			<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
232	9.14	.55	419	95.00 s	8.68	363	0.21	-.51	432	0.380 s	7.02	419	0.655 s	24.91
450	9.00	.43	291	51.82	1.47	232	0.20	-.71	102	0.320	2.19	432	0.380 s	6.84
393	8.41	.10	390	48.70 R	1.05	009	0.20	-.77	009	0.312	1.69	102	0.320	2.27
Avg	8.41		457	48.75	.97	<u>Meth: 311.XX PCT</u>			009	0.312	1.69	009	0.312	1.80
296	8.10	-.22	450	47.50	.75	<u>Sodium</u>			117	0.306	1.20	117	0.306	1.33
102	8.06	-.26	009	46.40	.68	102	0.23	1.13	057	0.304	1.06	460	0.305	1.31
037	7.40	-.73	368	45.10	.40	057	0.22 R	.69	453	0.296	.81	057	0.304	1.20
009	6.10	-1.66	247	44.00	.16	363	0.21	.27	330	0.300	.77	330	0.300	.93
231	5.74	-1.92	102	43.34	.08	232	0.20	.21	131	0.297	.77	453	0.296	.89
			Avg	43.03		009	0.20	.16	324	0.296	.75	131	0.297	.89
<u>Meth: 291.00 PPM</u>			296	42.80	-.09	262	0.15	-1.75	368	0.297	.71	324	0.296	.85
<u>Nickel</u>			096	42.50	-.12	<u>Meth: 321.00 PCT</u>			450	0.298	.60	368	0.297	.83
<u>Atomic Absorption</u>			232	39.00	-.70	<u>Acid Soluble Zinc</u>			393	0.295	.55	450	0.298	.76
457	48.75	.71	393	35.85	-1.20	<u>Atomic Absorption</u>			095	0.297	.53	095	0.297	.70
			037	29.27	-2.29	460	0.305	1.91	390	0.294	.50	393	0.295	.68
<u>Meth: 291.30 PPM</u>			231	18.34 s	-4.12	402	0.290	.07	307	0.293	.32	390	0.294	.62
<u>Nickel</u>			<u>Meth: 301.30 PPM</u>			433	0.292	.25	433	0.292	.25	307	0.293	.50
<u>ICP</u>			<u>Selenium</u>			360	0.290	.16	360	0.290	.16	433	0.292	.40
419	95.00 s	8.77	<u>ICP</u>			402	0.290	.07	402	0.290	.07	360	0.290	.29
291	51.82	1.55	368	8.30 s	70.01	Avg	0.289		Avg	0.289		177	0.290	.28
390	48.70 R	1.13	232	2.62 R	21.16	027	0.287	-.18	027	0.287	-.18	402	0.290	.26
450	47.50	.84	291	0.26	1.17	037	0.287	-.31	037	0.287	-.31	037	0.287	.24
009	46.40	.75	Avg	0.13		022	0.284	-.35	022	0.284	-.35	027	0.287	.04
368	45.10	.48	393	0.11	-.13	255	0.284	-.42	255	0.284	-.42	Avg	0.286	
247	44.00	.25	450	0.00	-1.05	231	0.285	-.46	231	0.285	-.46	022	0.284	-.14
102	43.34	.15	<u>Meth: 311.00 PCT</u>			247	0.282	-.53	247	0.282	-.53	040	0.286	-.20
296	42.80	.10	<u>Sodium</u>			232	0.276	-.94	232	0.276	-.94	255	0.284	-.25
Avg	42.51		<u>Atomic Absorption</u>			041	0.275	-1.05	041	0.275	-1.05	247	0.282	-.30
096	42.50	-.08	262	0.15	.00	291	0.274	-1.08	291	0.274	-1.08	231	0.285	-.34
232	39.00	-.61	<u>Meth: 311.99 PCT</u>			055	0.255	-1.66	073	0.271	-1.31	397	0.286	-.37
393	35.85	-1.11	<u>Sodium</u>			022	0.264 R	-1.88	114	0.270	-1.35	028	0.281	-.40
037	29.27	-2.21	<u>Other</u>			296	0.261 R	-2.53	292	0.265	-1.74	371	0.280	-.41
			102	0.23	1.58	257	0.210 s	-4.78	363	0.260	-2.09	457	0.280	-.41
<u>Meth: 291.99 PPM</u>			<u>Sodium</u>			<u>Meth: 321.30 PCT</u>			042	0.245 R	-3.29	232	0.276	-.69
<u>Nickel</u>			<u>Other</u>			<u>Acid Soluble Zinc</u>			023	0.140 s	-10.57	041	0.275	-.82
<u>Other</u>			102	0.23	1.58	<u>ICP</u>			420	0.029 s	-18.37	291	0.274	-.84
231	18.34 S	.00	057	0.22	.79	419	0.655 s	26.03				043	0.272	-.99
			Avg	0.21								073	0.271	-1.05

* 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>
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Meth: 321.XX PCT

<u>Acid Soluble Zinc</u>		
114	0.270	-1.08
029	0.267	-1.33
292	0.265	-1.46
262	0.260	-1.75
363	0.260	-1.79
055	0.255	-2.12
022	0.264 R	-2.14
296	0.261 R	-2.72
042	0.245 R	-2.94
257	0.210 s	-5.11
023	0.140 s	-9.84
420	0.029 s	-17.25

Meth: 325.30 PCT

<u>Water Soluble Zinc</u>		
<u>ICP</u>		
426	0.302	.83
Avg	0.269	
432	0.235	-.90

Meth: 325.99 PCT

<u>Water Soluble Zinc</u>		
<u>Other</u>		
453	0.296	.88
Avg	0.253	
257	0.210	-.86

Meth: 325.XX PCT

<u>Water Soluble Zinc</u>		
426	0.302	.97
453	0.296	.84
Avg	0.261	
432	0.235	-.69
257	0.210	-1.18

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Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.10	8	- 1.26	8.66	0.61	101.XX	13	0.63	1.88	0.65
001.99	9	2.33	9.72	0.26	121.30	13	0.50	1.75	0.56
001.XX	17	1.00	9.65	0.40	121.XX	13	0.50	1.75	0.56
002.99	2	0.00	1.20	0.17	144.01	20	- 1.99	7.18	0.51
002.XX	2	0.00	1.20	0.17	144.99	23	0.71	5.42	0.75
003.10	4	0.00	1.08	0.08	144.XX	41	0.32	5.12	1.22
003.XX	5	0.00	1.06	0.07	151.30	9	0.00	1.01	0.18
005.99	2	0.00	1.22	0.07	151.XX	10	0.00	1.01	0.18
005.XX	2	0.00	1.22	0.07	165.99	3	0.000	1.114	0.081
010.11	9	- 1.42	4.87	0.33	165.XX	4	0.000	1.077	0.076
010.12	2	- 25.34	35.83	0.50	181.30	10	0.88	3.02	0.20
010.60	54	- 0.38	2.97	0.45	181.XX	11	0.85	3.02	0.20
010.99	3	0.00	1.08	0.24	190.00	5	0.00	1.01	0.30
010.XX	67	- 0.49	2.95	0.41	190.99	6	0.17	1.04	0.17
020.10	3	23.06	39.94	0.43	190.XX	11	0.00	1.00	0.21
020.20	12	1.67	5.58	0.21	191.30	12	0.38	1.64	0.08
020.40	2	0.00	1.11	0.36	191.99	3	0.00	1.12	0.06
020.50	9	0.37	1.47	0.09	191.XX	15	0.28	1.45	0.07
020.99	2	6.31	8.92	0.65	202.30	13	0.00	1.00	0.21
020.XX	28	2.37	7.73	0.32	202.99	2	0.00	1.22	0.07
030.XX	2	0.00	1.22	0.06	202.XX	16	0.12	1.01	0.18
040.XX	2	0.00	1.22	0.10	221.00	5	0.0000	1.0245	0.2456
041.10	8	2.46	5.90	6.22	221.30	20	6.5893	26.925	0.6377
041.40	3	1.17	2.21	0.07	221.XX	25	5.0872	23.139	0.5691
041.50	7	0.28	1.19	0.37	241.00	14	0.05	0.99	0.13
041.60	3	0.00	0.39	0.86	241.30	33	- 0.70	2.32	0.25
041.XX	19	1.77	5.16	1.16	241.XX	48	- 0.48	2.03	0.22
048.XX	2	0.00	1.22	0.00	251.30	10	5.08	10.96	1.29
050.00	18	- 0.26	1.50	0.26	251.XX	11	4.51	10.27	1.20
050.30	5	0.00	0.92	0.47	261.30	16	0.777	3.255	0.206
050.50	7	1.26	3.43	1.55	261.XX	17	0.728	3.243	0.253
050.51	11	- 0.22	1.19	0.35	281.30	2	0.00	1.16	0.28
050.60	5	0.00	1.04	0.17	281.XX	3	0.00	1.07	0.26
050.61	7	0.00	1.00	0.28	289.30	14	1.46	3.47	0.32
050.99	17	- 0.59	1.89	0.12	289.XX	15	1.19	2.95	0.26
050.XX	63	- 0.16	1.70	0.51	291.30	13	0.75	2.59	0.24
060.00	6	0.00	1.04	0.11	291.XX	15	0.37	2.70	0.23
060.XX	7	3.45	9.19	0.52	301.30	5	17.97	29.87	5.75
101.30	13	0.63	1.88	0.65	301.XX	5	17.97	29.87	5.75

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
311.99	5	0.00	0.99	0.33					
311.XX	6	0.10	0.98	0.13					
321.00	14	- 0.503	1.564	0.752					
321.30	35	0.005	5.925	0.808					
321.XX	48	- 0.133	4.878	0.753					
325.30	2	0.000	1.162	0.274					
325.99	2	0.000	1.210	0.134					
325.XX	3	- 0.270	1.105	0.212					