

- Pass 1 Results for 81 Labs - - Pass 2 Results for 80 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	4	8.50	0.18	0.18	4	8.50	0.18	0.18
Ammoniacal Nitrogen, Other		001.99	9	8.24	0.53	0.04	8	8.29	0.55	0.03
Method Group 001.XX PCT			13	8.32	0.47	0.08	11	8.30	0.49	0.04
Nitrate Nitrogen, Other		002.99	3	0.04	0.05	0.01	3	0.04	0.05	0.01
Water Insoluble Nitrogen, Other		003.99	1	0.99	0.00	0.00	1	0.99	0.00	0.00
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	0.75	0.11	0.15	1	0.75	0.11	0.15
Nitrogen From Urea, Other		005.99	2	0.46	0.28	0.00	2	0.46	0.28	0.00
Method Group 005.XX PCT			3	0.55	0.27	0.05	3	0.55	0.27	0.05
Ammon & Nitrate N, Devarda	892.01	009.10	1	8.71	0.01	0.01	1	8.71	0.01	0.01
Ammon & Nitrate N, Other		009.99	1	8.93	0.01	0.01	1	8.93	0.01	0.01
Method Group 009.XX PCT			2	8.82	0.13	0.01	2	8.82	0.13	0.01
Total Nitrogen, Modified Comprehensive	978.02	010.11	8	8.93	0.14	0.05	8	8.93	0.14	0.05
Total Nitrogen, Salicylic	955.04D	010.12	4	8.86	0.10	0.04	4	8.86	0.10	0.04
Total Nitrogen, Combustion		010.60	52	8.95	0.13	0.09	50	8.96	0.12	0.08
Total Nitrogen, Other		010.99	6	8.89	0.18	0.10	6	8.89	0.18	0.10
Method Group 010.XX PCT			70	8.94	0.14	0.08	69	8.94	0.14	0.08
Total Phosphate, Grav Quimociac	962.02	020.10	4	23.05	0.27	0.12	4	23.05	0.27	0.12
Total Phosphate, Spectrometric	958.01	020.20	18	22.67	0.62	0.12	15	22.86	0.39	0.08
Total Phosphate, Automated	978.01	020.40	5	23.17	0.12	0.08	5	23.17	0.12	0.08
Total Phosphate, ICP		020.50	7	22.82	0.77	0.35	7	22.82	0.77	0.35
Total Phosphate, Other		020.99	5	23.03	0.58	0.17	5	23.03	0.58	0.17
Method Group 020.XX PCT			40	22.83	0.61	0.18	36	22.88	0.48	0.12
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.07	0.01	0.01	1	0.07	0.01	0.01
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.19	0.04	0.05	1	0.19	0.04	0.05
Insoluble Phosphate, Automated	978.01	030.40	1	0.24	0.04	0.05	1	0.24	0.04	0.05
Insoluble Phosphate, ICP		030.50	1	0.17	0.01	0.01	1	0.17	0.01	0.01
Insoluble Phosphate, Other		030.99	1	0.09	0.00	0.00	1	0.09	0.00	0.00
Method Group 030.XX PCT			5	0.15	0.07	0.02	5	0.15	0.07	0.02
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	23.07	0.03	0.04	1	23.07	0.03	0.04
InDir Available Phosphate, Spectrometri	960.02	040.20	1	20.69	0.01	0.02	1	20.69	0.01	0.02
InDir Available Phosphate, Automated ..	960.02	040.40	2	22.90	0.12	0.04	2	22.90	0.12	0.04
InDir Available Phosphate, ICP		040.50	1	21.70	0.01	0.01	1	21.70	0.01	0.01
InDir Available Phosphate, Other		040.99	2	22.26	0.62	0.02	2	22.26	0.62	0.02
Method Group 040.XX PCT			7	22.25	0.86	0.03	7	22.25	0.86	0.03
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	13	22.77	0.20	0.11	12	22.78	0.20	0.09
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	22.65	0.07	0.10	1	22.65	0.07	0.10
Dir Available Phosphate, Automated	978.01	041.40	3	22.94	0.27	0.03	3	22.94	0.27	0.03
Dir Available Phosphate, ICP		041.50	10	22.66	0.33	0.21	10	22.66	0.33	0.21
Dir Available Phosphate, EDTA Extract .	993.01	041.60	8	22.83	0.25	0.20	8	22.83	0.25	0.20

- Pass 1 Results for 81 Labs - - Pass 2 Results for 80 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
Dir Available Phosphate, Other		041.99	3	22.42	0.51	0.05	3	22.42	0.51	0.05
Method Group 041.XX PCT			38	22.74	0.30	0.14	35	22.75	0.26	0.12
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	16.87	0.65	0.15	2	16.87	0.65	0.15
Water Soluble Phosphate, ICP		048.50	1	16.31	0.10	0.14	1	16.31	0.10	0.14
Water Soluble Phosphate, Other		048.99	1	23.32	0.05	0.07	1	23.32	0.05	0.07
Method Group 048.XX PCT			4	18.34	3.11	0.13	4	18.34	3.11	0.13
Soluble Potash, STPB Oxalate	958.02	050.00	13	11.14	0.19	0.10	12	11.15	0.18	0.06
Soluble Potash, STPB Citrate	969.04	050.10	2	10.88	0.08	0.05	2	10.88	0.08	0.05
Soluble Potash, AA (Oxalate)		050.30	7	11.15	0.27	0.15	7	11.15	0.27	0.15
Soluble Potash, AA (Citrate)		050.31	2	10.96	0.07	0.02	2	10.96	0.07	0.02
Soluble Potash, ICP (Oxalate)		050.50	7	10.99	0.43	0.09	7	10.99	0.43	0.09
Soluble Potash, ICP (Citrate)		050.51	9	11.38	0.36	0.16	9	11.38	0.36	0.16
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	5	11.01	0.33	0.11	5	11.01	0.33	0.11
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	10	11.14	0.33	0.23	10	11.14	0.33	0.23
Soluble Potash, Other		050.99	16	11.16	0.41	0.16	14	11.17	0.41	0.07
Method Group 050.XX PCT			72	11.13	0.36	0.15	67	11.14	0.34	0.11
Free Water, Vacuum Oven	965.08B	060.00	2	1.03	0.04	0.03	2	1.03	0.04	0.03
Acid Soluble Calcium, ICP		101.30	14	0.33	0.05	0.01	13	0.34	0.05	0.01
Acid Soluble Magnesium, AA	984.01	121.00	10	5.89	0.42	0.10	10	5.89	0.42	0.10
Acid Soluble Magnesium, ICP		121.30	27	5.99	0.31	0.09	25	5.95	0.27	0.07
Acid Soluble Magnesium, Titrimetric	964.01	121.70	1	6.54	0.01	0.02	1	6.54	0.01	0.02
Acid Soluble Magnesium, Other		121.99	4	6.00	0.19	0.10	4	6.00	0.19	0.10
Method Group 121.XX PCT			42	5.98	0.34	0.09	39	5.96	0.32	0.07
Water Soluble Magnesium, AA		131.00	1	4.84	0.01	0.01	1	4.84	0.01	0.01
Water Soluble Magnesium, ICP		131.30	5	4.09	2.14	0.14	4	3.39	1.75	0.04
Water Soluble Magnesium, Titrimetric		131.70	1	2.61	0.01	0.02	1	2.61	0.01	0.02
Method Group 131.XX PCT			7	3.99	1.89	0.10	6	3.50	1.56	0.03
Sulfur, Gravimetric	980.02a	144.01	14	11.67	0.20	0.09	13	11.66	0.19	0.06
Sulfur, Spectrometric		144.70	1	11.23	0.01	0.02	1	11.23	0.01	0.02
Sulfur, Other		144.99	20	11.42	0.43	0.13	18	11.43	0.41	0.09
Method Group 144.XX PCT			35	11.52	0.37	0.11	32	11.52	0.35	0.08
Arsenic, Atomic Absorption		151.00	1	6.26	0.01	0.02	1	6.26	0.01	0.02
Arsenic, ICP		151.30	4	6.18	0.93	0.33	4	6.18	0.93	0.33
Arsenic, Other		151.99	2	7.10	0.68	0.86	2	7.10	0.68	0.86
Method Group 151.XX PPM			7	6.46	0.87	0.44	6	6.39	0.87	0.26
Acid Soluble Boron, Spectrometric	982.01	165.00	1	0.015	0.000	0.000	1	0.015	0.000	0.000
Acid Soluble Boron, Other		165.99	3	0.026	0.032	0.027	3	0.026	0.032	0.027
Method Group 165.XX PCT			4	0.023	0.027	0.020	3	0.015	0.004	0.000
Cadmium, Atomic Absorption		181.00	2	1.29	0.21	0.28	2	1.29	0.21	0.28

- Pass 1 Results for 81 Labs - - Pass 2 Results for 80 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
Cadmium, ICP		181.30	6	1.36	0.45	0.13	5	1.34	0.48	0.06
Cadmium, Other		181.99	1	1.61	0.11	0.15	1	1.61	0.11	0.15
Method Group 181.XX PPM			9	1.37	0.39	0.17	9	1.37	0.39	0.17
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	1.15	0.00	0.00	1	1.15	0.00	0.00
Water Soluble Chlorine, Other		190.99	1	1.27	0.02	0.03	1	1.27	0.02	0.03
Method Group 190.XX PCT			2	1.21	0.07	0.02	2	1.21	0.07	0.02
Chromium, Atomic Absorption		191.00	1	94.50	2.12	3.00	1	94.50	2.12	3.00
Chromium, ICP		191.30	8	88.97	14.88	2.77	8	88.97	14.88	2.77
Chromium, Other		191.99	2	79.49	7.45	1.60	2	79.49	7.45	1.60
Method Group 191.XX PPM			11	87.75	13.59	2.58	11	87.75	13.59	2.58
Acid Soluble Cobalt, AA		202.00	1	11.50	0.71	1.00	1	11.50	0.71	1.00
Acid Soluble Cobalt, ICP	965.11	202.30	7	2.96	0.59	0.28	6	3.04	0.56	0.16
Acid Soluble Cobalt, Other		202.99	1	3.26	0.08	0.12	1	3.26	0.08	0.12
Method Group 202.XX PPM			9	3.94	2.80	0.34	9	3.94	2.80	0.34
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0.0016	0.0018	0.0001	3	0.0016	0.0018	0.0001
Acid Soluble Copper, ICP		221.30	10	0.0010	0.0014	0.0002	9	0.0008	0.0012	0.0001
Acid Soluble Copper, Other		221.99	2	0.0002	0.0001	0.0000	2	0.0002	0.0001	0.0000
Method Group 221.XX PCT			15	0.0010	0.0015	0.0001	14	0.0009	0.0013	0.0001
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	7	0.54	0.06	0.01	6	0.56	0.03	0.01
Acid Soluble Iron, ICP		241.30	23	0.57	0.05	0.02	22	0.57	0.05	0.01
Acid Soluble Iron, Other		241.99	4	0.56	0.05	0.02	4	0.56	0.05	0.02
Method Group 241.XX PCT			34	0.56	0.06	0.02	33	0.56	0.05	0.01
Lead, Atomic Absorption		251.00	1	10.20	0.85	1.20	1	10.20	0.85	1.20
Lead, ICP		251.30	5	1.47	1.05	0.89	4	1.27	0.60	0.27
Lead, Other		251.99	1	2.04	0.14	0.20	1	2.04	0.14	0.20
Method Group 251.XX PPM			7	2.80	3.27	0.83	6	2.89	3.47	0.41
Acid Soluble Manganese, ICP	972.02a	261.30	10	0.014	0.002	0.000	9	0.014	0.002	0.000
Acid Soluble Manganese, Other		261.99	1	0.016	0.000	0.000	1	0.016	0.000	0.000
Method Group 261.XX PCT			12	0.015	0.002	0.000	10	0.015	0.003	0.000
Mercury, ICP		281.30	2	0.50	0.57	0.00	2	0.50	0.57	0.00
Mercury, Other		281.99	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Method Group 281.XX PPM			3	0.34	0.51	0.00	3	0.34	0.51	0.00
Molybdenum, ICP		289.30	11	6.11	1.73	0.48	9	6.23	1.83	0.19
Molybdenum, Other		289.99	1	7.77	0.13	0.18	1	7.77	0.13	0.18
Method Group 289.XX PPM			12	6.25	1.72	0.46	10	6.38	1.80	0.19
Nickel, Atomic Absorption		291.00	2	29.50	7.59	2.00	2	29.50	7.59	2.00
Nickel, ICP		291.30	6	26.10	9.30	1.32	6	26.10	9.30	1.32
Nickel, Other		291.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 291.XX PPM			9	23.95	12.01	1.33	9	23.95	12.01	1.33

- Pass 1 Results for 81 Labs - - Pass 2 Results for 80 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
Selenium, ICP		301.30	2	0.00	0.00	0.00	2	0.00	0.00	0.00
Selenium, Other		301.99	2	0.74	0.59	0.05	2	0.74	0.59	0.05
Method Group 301.XX PPM			4	0.37	0.55	0.03	3	0.08	0.12	0.00
Sodium, Other		311.99	3	0.50	0.11	0.01	3	0.50	0.11	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	2	0.002	0.000	0.000	2	0.002	0.000	0.000
Acid Soluble Zinc, ICP		321.30	9	0.002	0.001	0.000	8	0.002	0.001	0.000
Acid Soluble Zinc, Other		321.99	2	0.004	0.001	0.000	2	0.004	0.001	0.000
Method Group 321.XX PCT			15	0.003	0.002	0.001	13	0.003	0.001	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: 009.99 PCT			Meth: 010.60 PCT			Meth: 010.60 PCT		
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			Ammon & Nitrate N			Total Nitrogen			Total Nitrogen		
<u>MgO Distillation</u>			230 5.08 s -6.53			<u>Other</u>			<u>Combustion</u>			<u>Combustion</u>		
444	8.64	1.16				393	8.93	.71	255	15.74 s	55.44	040	8.93	-.48
090	8.54	.26	Meth: 002.99 PCT						377	10.02 s	8.66	233	8.93	-.50
309	8.53	.21	Nitrate Nitrogen			Meth: 009.XX PCT			034	9.22	2.11	023	8.90	-.60
Avg	8.50		<u>Other</u>			<u>Ammon & Nitrate N</u>			406	9.13	1.46	426	8.87	-.77
029	8.29	-1.43	394	0.10	1.22	393	8.93	.87	360	9.09	1.33	428	8.89	-.88
230	5.08 s	-19.14	Avg	0.04		Avg	8.82		025	9.12	1.30	070	8.87	-.95
Meth: 001.99 PCT			220	0.03	-.36	169	8.71	-.87	232	9.12	1.28	443	8.90	-.96
Ammoniacal Nitrogen			393	0.00	-.94	Meth: 010.10 PCT			369	9.06	1.27	452	8.85	-.97
<u>Other</u>			Meth: 003.99 PCT			Total Nitrogen			390	9.10	1.13	324	8.85	-1.00
393	8.93	1.17	Water Insoluble Nitr			<u>Reduced Iron</u>			102	9.07	.97	022	8.84	-1.10
450	8.72	.79	<u>Other</u>			444	9.57 S	.00	131	9.08	.96	009	8.86	-1.11
096	8.68	.72	027	0.99	.00	Meth: 010.11 PCT			007	9.05	.83	425	8.80	-1.44
220	8.53	.44	Meth: 005.00 PCT			Total Nitrogen			247	9.06	.79	234	8.80	-1.48
372	8.52	.42	Nitrogen From Urea			<u>Modified Comprehensi</u>			043	9.03	.74	325	8.89 R	-1.56
Avg	8.29		<u>Urease (as N)</u>			309	9.13	1.47	291	9.05	.73	372	8.74	-1.82
420	7.93	-.66	220	0.75 X	.71	105	9.03	.82	028	9.02	.68	262	8.69	-2.32
234	7.91 R	-.69	Meth: 005.99 PCT			220	9.02	.77	073	9.04	.61	451	8.66 X	-2.52
394	7.52	-1.39	Nitrogen From Urea			114	9.01	.61	029	9.04	.61	351	8.61 A	-2.96
027	7.46	-1.50	<u>Other</u>			Avg	8.93		096	8.98	.49	230	8.25 s	-5.91
Meth: 001.XX PCT			309	0.70	.87	Meth: 010.12 PCT			095	9.00	.45	Meth: 010.99 PCT		
<u>Ammoniacal Nitrogen</u>			Meth: 005.XX PCT			Total Nitrogen			041	9.02	.43	Total Nitrogen		
393	8.93	1.29	<u>Nitrogen From Urea</u>			<u>Salicylic</u>			292	8.98	.41	<u>Other</u>		
450	8.72	.86	220	0.75 X	.77	254	9.47 S	6.09	049	9.00	.35	354	9.14	1.40
096	8.68	.79	309	0.70	.55	455	8.96	.93	450	9.00	.31	402	9.06	.92
444	8.64 R	.75	Avg	0.55		416	8.93	.74	106	8.98	.28	Avg	8.89	
090	8.54	.49	394	0.21	-.87	Meth: 010.12 PCT			136	8.97	.25	137	8.88	-.07
220	8.53	.47	Meth: 009.10 PCT			Total Nitrogen			394	8.97	.24	300	8.86 X	-.38
309	8.53	.47	Ammon & Nitrate N			<u>Salicylic</u>			393	8.98	.11	420	8.75	-.94
372	8.52	.45	<u>Devarda</u>			254	9.47 S	6.09	057	8.98	.11	200	8.68	-1.29
Avg	8.30		169	8.71	.71	Avg	8.96	.93	Avg	8.96	-.02	030	7.38 S	-8.38
029	8.29 R	-.30	Meth: 009.10 PCT			416	8.93	.74	027	8.96	-.02	Meth: 010.XX PCT		
420	7.93	-.76	Ammon & Nitrate N			Avg	8.86		231	8.96	-.02	Total Nitrogen		
234	7.91	-.80	<u>Devarda</u>			185	8.84	-.24	035	8.94	-.24	255	15.74 s	49.95
394	7.52	-1.57	169	8.71	.71	117	8.73	-1.43	177	8.93	-.29	377	10.02 s	7.93
027	7.46	-1.70	Meth: 009.10 PCT			Meth: 010.12 PCT			361	8.96	-.29	444	9.57 s	4.68
			Ammon & Nitrate N			Total Nitrogen			024	8.95	-.32			
			<u>Devarda</u>			<u>Salicylic</u>			162	8.92	-.45			
			169	8.71	.71	Meth: 010.12 PCT								
			Meth: 009.10 PCT			Total Nitrogen								
			Ammon & Nitrate N			<u>Salicylic</u>								
			<u>Devarda</u>			Meth: 010.12 PCT								
			169	8.71	.71	Total Nitrogen								
			Meth: 009.10 PCT			<u>Salicylic</u>								
			Ammon & Nitrate N			Meth: 010.12 PCT								
			<u>Devarda</u>			Total Nitrogen								
			169	8.71	.71	<u>Salicylic</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: 020.10 PCT			Meth: 020.40 PCT			Meth: 020.XX PCT		
<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>		
254	9.47 s	3.85	455	8.96	.11	<u>Grav Quimociac</u>			<u>Automated</u>			114	23.34	.95
034	9.22	2.05	Avg	8.94		114	23.34	1.10	Avg	23.17		292	23.33	.93
354	9.14	1.50	177	8.93	-.11	090	23.14	.35	247	23.06	-.92	393	23.30	.86
406	9.13	1.45	035	8.94	-.15	Avg	23.05		096	23.04	-1.06	035	23.26	.80
309	9.13	1.36	416	8.93	-.24	041	23.04	-.19	Meth: 020.50 PCT			234	23.21	.69
025	9.12	1.32	162	8.92	-.31	444	22.67	-1.46	<u>Total Phosphate</u>			394	23.19	.64
360	9.09	1.32	029	8.90	-.34	117	22.26 s	-3.58	<u>ICP</u>			090	23.14	.53
232	9.12	1.30	040	8.93	-.35	Meth: 020.20 PCT			300	25.85 S	3.94	232	23.13	.52
369	9.06	1.24	233	8.93	-.37	<u>Total Phosphate</u>			390	23.85	1.47	455	23.11	.46
390	9.10	1.17	023	8.90	-.43	<u>Spectrometric</u>			426	23.70	1.15	393	23.08	.40
131	9.08	1.02	137	8.88	-.45	428	26.51 s	9.45	393	23.08	.34	425	23.07	.40
102	9.07	1.01	426	8.87	-.54	416	23.37	1.28	Avg	22.82		247	23.06	.36
007	9.05	.88	428	8.89	-.69	292	23.33	1.19	361	22.54	-.36	041	23.04	.34
402	9.06	.87	185	8.84	-.72	234	23.21	.90	432	22.50	-.69	406	23.04	.34
247	9.06	.85	452	8.85	-.73	232	23.13	.69	444	22.19	-.88	096	23.04	.32
291	9.05	.80	070	8.87	-.73	425	23.07	.54	255	21.86	-1.24	220	23.03	.31
043	9.03	.79	300	8.86 X	-.74	406	23.04	.47	372	19.04 S	-4.92	169	23.02	.30
105	9.03	.74	324	8.85	-.77	220	23.03	.43	Meth: 020.99 PCT			231	22.90	.03
028	9.02	.73	443	8.90	-.79	169	23.02	.42	<u>Total Phosphate</u>			Avg	22.88	
073	9.04	.70	022	8.84	-.85	231	22.90	.10	<u>Other</u>			450	22.83	-.14
029	9.04	.70	009	8.86	-.89	Avg	22.86		443	23.63	1.04	420	22.85	-.34
220	9.02	.68	211	8.81	-1.00	450	22.83	-.13	402	23.53	.88	137	22.70	-.38
041	9.02	.54	425	8.80	-1.15	420	22.85	-.41	455	23.11	.14	444	22.67	-.50
095	9.00	.53	234	8.80	-1.19	262	22.50	-.92	Avg	23.03		361	22.54	-.72
096	8.98	.52	090	8.78	-1.21	200	22.36	-1.29	137	22.70	-.56	262	22.50	-.80
114	9.01	.51	322	8.76	-1.33	369	22.21	-1.68	030	22.17	-1.52	200	22.36	-1.10
049	9.00	.47	325	8.89 R	-1.35	451	22.20 R	-1.76	Meth: 020.XX PCT			432	22.50 R	-1.21
292	8.98	.46	372	8.74	-1.48	324	22.20 R	-1.76	<u>Total Phosphate</u>			369	22.21	-1.42
450	9.00	.43	420	8.75	-1.57	309	22.10	-1.94	428	26.51 s	7.70	324	22.20	-1.49
106	8.98	.37	117	8.73	-1.60	372	20.80 A	-5.28	300	25.85 s	6.20	451	22.20 X	-1.49
394	8.97	.31	262	8.69	-1.94	Meth: 020.40 PCT			390	23.85 R	2.23	444	22.19	-1.54
136	8.97	.30	200	8.68	-2.05	<u>Total Phosphate</u>			426	23.70	1.70	030	22.17	-1.57
361	8.96	.28	451	8.66 X	-2.11	<u>Automated</u>			443	23.63	1.56	309	22.10	-1.64
024	8.95	.26	351	8.61	-2.51	393	23.30	1.10	402	23.53	1.36	117	22.26 R	-1.74
393	8.98	.25	230	8.25 s	-5.15	035	23.26	1.07	416	23.37	1.01	255	21.86	-2.14
057	8.98	.25	030	7.38 s	-11.49	394	23.19	.40	Meth: 020.40 PCT			372	20.80 A	-4.37
231	8.96	.14							<u>Total Phosphate</u>			372	19.04 s	-8.06
027	8.96	.14							<u>Automated</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: 030.10 PCT			Meth: 040.10 PCT			Meth: 041.10 PCT			Meth: 041.50 PCT			Meth: 041.XX PCT		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
<u>Grav Quimociac</u>			<u>Grav Quim</u>			<u>Grav Quimociac</u>			<u>ICP</u>					
090	0.07	.71	090	23.07	.71	070	23.74 s	4.91	291	22.72	.21	106	22.93 R	1.30
						105	23.02	1.29	Avg	22.66		452	23.05	1.28
						211	23.03	1.24	393	22.54	-.50	057	23.01	1.25
Meth: 030.20 PCT			Meth: 040.20 PCT			040			361			211		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			22.94			22.35			23.02		
<u>Spectrometric</u>			<u>Spectrometri</u>			1.05			-.95			1.07		
220	0.19	.71	372	20.69	.71	131	22.93	.76	354	22.34	-1.01	377	22.96	.88
						296	22.88	.62	009	22.16	-1.54	105	22.98	.88
						322	22.83	.24	325	17.10 s	-16.88	040	22.94	.87
Meth: 030.40 PCT			Meth: 040.40 PCT			029						043		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			22.79			Meth: 041.60 PCT			351		
<u>Automated</u>			<u>Automated</u>			.08			<u>Dir Available Phosph</u>			22.96		
096	0.24	.71	394	23.01	.85	Avg	22.78		<u>EDTA Extract</u>			.78		
			Avg	22.90		102	22.75	-.30	028	23.73 S	3.64	131	22.93	.68
			096	22.80	-.88	177	22.65	-.65	106	22.93	1.23	034	22.82	.66
Meth: 030.50 PCT			Meth: 040.50 PCT			049			057			073		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			22.60			23.01			22.93		
<u>ICP</u>			<u>ICP</u>			-.97			1.08			.56		
255	0.17	.71	255	21.70	.71	185	22.61 R	-1.30	351	22.96	.50	131	22.89	.51
						009	22.50	-1.46	073	22.93	.38	105	22.81	.44
						254	22.47	-1.62	043	22.86	.12	043	22.86	.41
Meth: 030.99 PCT			Meth: 040.99 PCT			Meth: 041.20 PCT			043			322		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			22.83			029		
<u>Other</u>			<u>Other</u>			<u>Spectrometric</u>			105			Avg		
007	22.20 S	.00	220	22.80	.87	231	22.65	.71	034	22.82	-.64	102	22.75	-.19
247	0.09	.00	Avg	22.26		Meth: 041.40 PCT			177	22.34	-1.96	291	22.72	-.20
Avg	0.09		027	21.73	-.87	<u>Automated</u>			296	22.11 s	-4.21	029	22.67	-.35
						025			Meth: 041.99 PCT			177		
Meth: 030.XX PCT			Meth: 040.XX PCT			23.26			<u>Dir Available Phosph</u>			231		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			1.20			<u>Other</u>			22.65		
007	22.20 s	324.56	090	23.07	.94	Avg	22.94		105	22.98	1.11	360	22.69	-.55
096	0.24	1.33	394	23.01	.87	131	22.89	-.19	393	22.42	.02	049	22.60	-.63
220	0.19	.66	096	22.80	.63	029	22.67	-1.01	Avg	22.42		185	22.61	-.90
255	0.17	.26	220	22.80	.63	Meth: 041.50 PCT			230	21.85	-1.12	393	22.54	-.92
Avg	0.15		Avg	22.25		<u>Dir Available Phosph</u>			Meth: 041.XX PCT			009		
247	0.09	-.85	027	21.73	-.61	<u>ICP</u>			<u>Dir Available Phosph</u>			22.50		
090	0.07	-1.22	255	21.70	-.65	452	23.05	1.26	070	23.74 s	3.81	254	22.47	-1.11
			372	20.69	-1.81	023	22.85	1.18	028	23.73 s	3.77	393	22.42	-1.27
						377	22.96	.95	025	23.26	1.94	361	22.35	-1.54
						043	22.97	.93	023	22.85 R	1.35	177	22.34	-1.56
						360	22.69	.40				354	22.34	-1.60
												009	22.16	-2.28
												230	21.85 A	-3.46
												296	22.11 s	-3.80

* 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.XX PCT			Meth: 050.00 PCT			Meth: 050.50 PCT			Meth: 050.61 PCT			Meth: 050.XX PCT		
<u>Dir Available Phosph</u>			Soluble Potash			Soluble Potash			Soluble Potash			<u>Soluble Potash</u>		
325	17.10	s -21.63	<u>STPB Oxalate</u>			<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>			049	21.73	s 30.98
			Avg	11.15		354	11.72	1.69	028	11.72	1.88	247	13.69	s 7.47
			231	11.07	-.47	426	11.17	.41	057	11.34	.75	428	13.50	s 6.91
Meth: 048.20 PCT			211 11.07 -.48			324 11.10 .34			034 11.26 .54			117 12.86 s 5.02		
Water Soluble Phosph			009 11.00 -.89			106 11.11 .26			131 11.21 .23			309 12.50 s 3.97		
<u>Spectrometric</u>			372 10.99 -.91			Avg 10.99			Avg 11.14			452 11.97 2.44		
420	17.43	.87	220 11.04 R -1.49			372 10.94 -.13			105 11.10 -.12			432 11.87 2.16		
Avg	16.87		073 10.78 -2.17			444 10.56 -1.04			025 11.08 -.18			023 11.80 1.99		
393	16.31	-.87	230 10.30 s -5.09			420 10.36 -1.47			041 11.06 -.38			028 11.72 1.79		
Meth: 048.50 PCT			Meth: 050.10 PCT			Meth: 050.51 PCT			035 11.04 -.50			354 11.72 1.70		
Water Soluble Phosph			Soluble Potash			Soluble Potash			030 11.05 -1.10			369 11.69 1.61		
<u>ICP</u>			<u>STPB Citrate</u>			<u>ICP (Citrate)</u>			029 10.54 -1.85			007 11.66 1.51		
393	16.31	.71	117	12.86	S 25.32	452	11.97	1.66	Meth: 050.99 PCT			042	11.25	R 1.35
Meth: 048.99 PCT			322 10.94 .76			023 11.80 1.27			Soluble Potash			300	11.56	1.22
Water Soluble Phosph			Avg 10.88			007 11.66 .79			<u>Other</u>			131	11.43	.85
<u>Other</u>			444 10.83 -.96			Avg 11.38			247 13.69 s 6.18			402	11.42	.80
247	23.32	.71	Meth: 050.30 PCT			291 11.36 -.14			432 11.87 1.73			232	11.40	.74
Meth: 048.XX PCT			Soluble Potash			043 11.24 -.39			042 11.25 R 1.12			416	11.37	.65
<u>Water Soluble Phosph</u>			<u>AA (Oxalate)</u>			393 11.20 -.50			300 11.56 .95			291	11.36	.63
247	23.32	1.60	428	13.50	s 8.76	377 11.20 -.51			131 11.43 .64			325	11.35	.62
Avg	18.34		369	11.69	2.03	009 11.05 -1.10			402 11.42 .59			090	11.33	.59
420	17.43	-.29	185	11.20	.42	361 10.91 -1.28			232 11.40 .55			034	11.26	.51
393	16.31	-.65	Avg 11.15			Meth: 050.60 PCT			325 11.35 .45			114	11.29	.50
393	16.31	-.65	136	11.12	-.20	Soluble Potash			360 11.24 .27			057	11.30	.45
Meth: 050.00 PCT			040 11.15 -.20			<u>Flame (Oxalate)</u>			177 11.28 .26			177	11.28	.40
Soluble Potash			234 10.96 -.71			309 12.50 S 4.54			105 11.20 .19			360	11.24	.39
<u>STPB Oxalate</u>			351 10.91 -.88			169 11.25 .75			Avg 11.17			169	11.25	.34
049	21.73	s 59.67	451 11.00 X -.92			406 11.24 .72			455 10.98 -.49			185	11.20	.34
416	11.37	1.21	425 9.57 s -5.84			443 11.17 .49			027 10.90 -.67			043	11.24	.31
090	11.33	1.10	Meth: 050.31 PCT			Avg 11.01			255 10.84 -.82			029	11.25	.30
114	11.29	.93	Soluble Potash			105 10.94 -.41			137 10.80 -.91			406	11.24	.30
057	11.30	.84	<u>AA (Citrate)</u>			200 10.44 -1.74			390 10.95 R -1.02			105	11.20	.27
029	11.25	.53	095 11.02 .86			Meth: 050.60 PCT			394 10.18 -2.44			043	11.23	.24
043	11.23	.43	Avg 10.96			Soluble Potash			262 9.78 s -3.41			377	11.20	.24
102	11.17	.11	254 10.90 -.87			<u>Flame (Oxalate)</u>						131	11.21	.20
						309 12.50 S 4.54						040	11.15	.16
						169 11.25 .75						393	11.20	.15
						406 11.24 .72								
						443 11.17 .49								
						Avg 11.01								
						105 10.94 -.41								
						200 10.44 -1.74								
						Meth: 050.60 PCT								
						Soluble Potash								
						<u>Flame (Oxalate)</u>								
						309 12.50 S 4.54								
						169 11.25 .75								
						406 11.24 .72								
						443 11.17 .49								
						Avg 11.01								
						105 10.94 -.41								
						200 10.44 -1.74								
						Meth: 050.60 PCT								
						Soluble Potash								
						<u>Flame (Oxalate)</u>								
						309 12.50 S 4.54								
						169 11.25 .75								
						406 11.24 .72								
						443 11.17 .49								
						Avg 11.01								
						105 10.94 -.41								
						200 10.44 -1.74								
						Meth: 050.60 PCT								
						Soluble Potash								
						<u>Flame (Oxalate)</u>								
						309 12.50 S 4.54								
						169 11.25 .75								
						406 11.24 .72								
						443 11.17 .49								
						Avg 11.01								
						105 10.94 -.41								
						200 10.44 -1.74								

* 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: 121.00 PCT			Meth: 121.30 PCT			Meth: 121.XX PCT				
<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>				
426	11.17	.10	230	10.30 R	-2.62	AA			ICP			426	6.20	.74		
102	11.17	.08	394	10.18	-2.84	034	5.98	.25	027	5.78	-.66	057	6.07 R	.70		
443	11.17	.08	262	9.78 s	-3.99	043	5.93	.12	022	5.64	-1.30	177	6.16	.63		
Avg	11.14		425	9.57 s	-4.60	Avg	5.89		106	5.57	-1.43	361	6.10	.44		
106	11.11	-.11				351	5.81	-.19	393	5.49	-1.73	354	6.07	.44		
105	11.10	-.13	Meth: 060.00 PCT			040	5.79	-.28	255	5.36	-2.24	450	5.97	.24		
136	11.12	-.16	Free Water			095	5.71	-.46	114	4.75 S	-4.50	247	6.03	.21		
025	11.08	-.19	<u>Vacuum Oven</u>			220	5.70	-.52	372	3.95 s	-7.49	034	5.98	.18		
231	11.07	-.22	007	1.06	.89	029	5.46	-1.03	232	0.47 s	-20.51	096	6.00	.12		
211	11.07	-.23	Avg	1.03		262	5.43	-1.12				Avg	5.96			
324	11.10	-.32	416	1.00	-.84				Meth: 121.70 PCT			137	5.94	-.06		
095	11.02	-.36				Meth: 121.30 PCT			Acid Soluble Magnesi			028	5.93	-.09		
041	11.06	-.38	Meth: 101.30 PCT			Acid Soluble Magnesi			<u>Titrimetric</u>			043	5.93	-.15		
009	11.00	-.44	Acid Soluble Calcium			ICP			372			6.54	.71	444	5.95	-.19
372	10.99	-.45				117	8.23 s	8.53				065	5.89	-.22		
035	11.04	-.49	232	5.02 s	99.67	049	6.77 R	3.13	Meth: 121.99 PCT			231	5.89	-.23		
455	10.98	-.49	247	0.45	2.37	041	6.44	1.81	Acid Soluble Magnesi			291	5.90	-.24		
234	10.96	-.55	390	0.38	.99	432	6.30	1.31	<u>Other</u>			420	5.85	-.36		
322	10.94	-.58	450	0.36	.50	023	6.27	1.22	234	6.28	1.43	360	5.84	-.38		
372	10.94	-.60	393	0.36	.37	390	6.26	1.14	Avg	6.00		131	5.83	-.40		
351	10.91	-.68	096	0.35	.17	433	6.21	.96	137	5.94	-.33	102	5.81	-.47		
361	10.91	-.69	420	0.34	.07	452	6.20	.95	028	5.93	-.38	351	5.81	-.47		
105	10.94	-.69	Avg	0.34		426	6.20	.91	042	5.87	-1.09	040	5.79	-.56		
027	10.90	-.71	131	0.33	-.21	057	6.07 R	.84				027	5.78	-.58		
451	11.00 X	-.72	065	0.33	-.23	361	6.10	.55	Meth: 121.XX PCT			042	5.87 R	-.58		
009	11.05	-.73	057	0.33	-.23	354	6.07	.54	<u>Acid Soluble Magnesi</u>			095	5.71	-.81		
254	10.90	-.73	106	0.33	-.31	450	5.97	.28	309	8.60 s	8.29	220	5.70	-.88		
220	11.04 R	-.77	433	0.31	-.61	247	6.03	.27	117	8.23 s	7.14	022	5.64	-1.10		
255	10.84	-.89	102	0.31	-.68	096	6.00	.16	200	6.92	3.02	106	5.57	-1.22		
444	10.83	-.94	027	0.24	-2.10	Avg	5.95		049	6.77 R	2.61	393	5.49	-1.47		
137	10.80	-1.01	372	0.23 R	-2.44	444	5.95	-.22	372	6.54	1.83	029	5.46	-1.57		
030	11.05 R	-1.06				065	5.89	-.25	041	6.44	1.50	262	5.43	-1.69		
073	10.78	-1.11	Meth: 121.00 PCT			231	5.89	-.26	432	6.30	1.08	255	5.36	-1.90		
390	10.95 R	-1.17	Acid Soluble Magnesi			291	5.90	-.27	234	6.28	1.01	114	4.75 s	-3.80		
444	10.56	-1.75	AA			420	5.85	-.41	023	6.27	1.00	372	3.95 s	-6.31		
029	10.54	-1.79	309	8.60 s	6.49	360	5.84	-.44	390	6.26	.93	232	0.47 s	-17.23		
200	10.44	-2.08	200	6.92	2.47	131	5.83	-.46	433	6.21	.79					
420	10.36	-2.30	177	6.16	.65	102	5.81	-.53	452	6.20	.78					

* 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: 131.00 PCT			Meth: 144.01 PCT			Meth: 144.99 PCT			Meth: 144.XX PCT			Meth: 151.XX PPM		
<u>Water Soluble Magnes</u>			<u>Sulfur</u>			<u>Sulfur</u>			<u>Sulfur</u>			<u>Arsenic</u>		
AA			<u>Gravimetric</u>			<u>Other</u>			450	11.02	-1.42	102	5.68	-.82
029	4.84	.71	040	11.68	.13	049	10.83 R	-1.57	137	10.97	-1.55	065	5.32	-1.25
			Avg	11.66		255	10.56	-2.11	096	10.96	-1.60			
Meth: 131.30 PCT			102	11.63	-.20	232	0.57 s	-26.25	049	10.83 R	-2.06	Meth: 165.00 PCT		
<u>Water Soluble Magnes</u>			296	11.64	-.46	Meth: 144.XX PCT			255	10.56	-2.72	<u>Acid Soluble Boron</u>		
<u>ICP</u>			095	11.53	-.67	<u>Sulfur</u>			232	0.57 s	-31.05	<u>Spectrometric</u>		
117	6.91 R	2.02	028	11.55	-.67	300	12.26 X	2.11				393	0.015	.71
452	6.13	1.57	114	11.50	-.84	043	12.14	1.75	Meth: 151.00 PPM			Meth: 165.99 PCT		
Avg	3.39		444	11.45	-1.12	452	12.05	1.55	<u>Arsenic</u>			<u>Acid Soluble Boron</u>		
027	3.07	-.19	372	11.43	-1.20	220	11.89 R	1.27	<u>Atomic Absorption</u>			<u>Other</u>		
393	2.46	-.54				230	11.85 R	1.18	136	6.26	.71	444	0.050	1.48
432	1.91	-.85	Meth: 144.70 PCT			390	11.90	1.09	Meth: 151.30 PPM			Avg	0.026	
			<u>Sulfur</u>			324	11.85	.95	<u>Arsenic</u>			433	0.019	-.23
Meth: 131.70 PCT			<u>Spectrometric</u>			200	11.75	.67	<u>ICP</u>			106	0.010	-.52
<u>Water Soluble Magnes</u>			393	11.23	.71	057	11.72	.57	372	10.55 S	4.71	Meth: 165.XX PCT		
<u>Titrimetric</u>			Meth: 144.99 PCT			291	11.70	.53	450	7.50	1.52	<u>Acid Soluble Boron</u>		
372	2.61	-.71	<u>Sulfur</u>			029	11.70	.51	393	6.23	.05	444	0.050 R	13.27
			<u>Other</u>			040	11.68	.46	Avg	6.18		433	0.019	1.11
Meth: 131.XX PCT			300	12.26 X	2.00	296	11.64	.41	102	5.68	-.54	393	0.015	.03
<u>Water Soluble Magnes</u>			452	12.05	1.52	136	11.66	.41	065	5.32	-.94	Avg	0.015	
117	6.91 R	2.20	220	11.89 R	1.26	102	11.63	.32	Meth: 151.99 PPM			106	0.010	-1.13
452	6.13	1.69	390	11.90	1.13	028	11.55	.22	<u>Arsenic</u>			Meth: 181.00 PPM		
029	4.84	.86	291	11.70	.65	177	11.59	.21	<u>Other</u>			<u>Cadmium</u>		
Avg	3.50		136	11.66	.55	027	11.55	.09	231	7.35	.40	<u>Atomic Absorption</u>		
027	3.07	-.28	177	11.59	.38	247	11.55	.09	Avg	7.10		136	1.33	.21
372	2.61	-.57	027	11.55	.28	095	11.53	.04	220	6.85	-1.16	Avg	1.29	
393	2.46	-.67	247	11.55	.27	Avg	11.52		Meth: 151.XX PPM			220	1.25	-1.21
432	1.91	-1.02	117	11.48	.13	114	11.50	-.10	<u>Arsenic</u>			Meth: 181.30 PPM		
			Avg	11.43		117	11.48	-.16	372	10.55 s	4.80	<u>Cadmium</u>		
Meth: 144.01 PCT			023	11.41	-.16	444	11.45	-.21	450	7.50	1.41	<u>ICP</u>		
<u>Sulfur</u>			360	11.40	-.30	372	11.43	-.25	231	7.35	1.12	452	3.46 S	4.40
<u>Gravimetric</u>			354	11.31	-.36	023	11.41	-.35	220	6.85 R	1.02	450	2.08	1.54
043	12.14	2.52	351	11.28	-.38	360	11.40	-.48	Avg	6.39		444	1.49 R	.63
230	11.85 R	1.66	361	11.17	-.64	354	11.31	-.64	136	6.26	-.15	102	1.43	.19
324	11.85	1.05	450	11.02	-1.01	351	11.28	-.69	393	6.23	-.19			
200	11.75	.56	137	10.97	-1.12	393	11.23	-.82						
057	11.72	.33	096	10.96	-1.15	361	11.17	-.99						
029	11.70	.24												

* 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: 181.30 PPM			Meth: 190.XX PCT			Meth: 191.XX PPM			Meth: 202.XX PPM			Meth: 221.XX PCT					
<u>Cadmium</u>			<u>Water Soluble Chlori</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>					
ICP			009	1.27	.88	Avg	87.75		102	3.31	-.24	354	0.0040	2.34			
Avg	1.34		Avg	1.21		231	85.84	-.18	231	3.26	-.25	428	0.0040	2.34			
393	1.33	-.10	102	1.15	-.85	102	84.24	-.27	450	3.25	-.25	444	0.0035 R	2.01			
065	1.19	-.31	Meth: 191.00 PPM			444	76.04	-.91	065	3.06	-.32	452	0.0012	.26			
372	0.66	-1.41	<u>Chromium</u>			027	73.14	-1.08	232	2.50	-.55	Avg	0.0009				
Meth: 181.99 PPM			<u>Atomic Absorption</u>			372	62.65	-1.85	372	1.89	-.73	043	0.0007	-.14			
<u>Cadmium</u>			220	94.50	.71	393	0.00 s	-6.46	Meth: 221.00 PCT			372	0.0005	-.28			
<u>Other</u>			Meth: 191.30 PPM			Meth: 202.00 PPM			<u>Acid Soluble Copper</u>			393	0.0004	-.35			
231	1.61	-.71	<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Atomic Absorption</u>			232	0.0003	-.46			
Meth: 181.XX PPM			<u>ICP</u>			<u>AA</u>			428			0.0040	1.28				
<u>Cadmium</u>			452	113.75	1.68	136	11.50	.71	Avg			0.0016					
452	3.46 s	5.38	450	97.50	.60	Meth: 202.30 PPM			043			0.0007	-.51				
450	2.08	1.82	390	96.15	.48	<u>Acid Soluble Cobalt</u>			095			0.0002	-.78				
444	1.49	.74	049	90.81	.12	<u>ICP</u>			Meth: 221.30 PCT			Meth: 241.00 PCT					
231	1.61	.65	065	90.65	.12	452	32.52 s	52.51	<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>					
102	1.43	.15	Avg	88.97		057	3.35	.61	<u>ICP</u>			<u>Atomic Absorption</u>					
Avg	1.37		102	84.24	-.33	393	3.38	.61	354			0.0040	2.64				
136	1.33	-.14	444	76.04	-.91	102	3.31	.60	444			0.0035 R	2.27				
393	1.33	-.17	372	62.65	-1.77	450	3.25	.38	452			0.0012	.37				
065	1.19	-.48	393	0.00 s	-5.98	065	3.06	.11	Avg			0.0008					
220	1.25	-.72	Meth: 191.99 PPM			Avg	3.04		372			0.0005	-.22				
372	0.66	-1.84	<u>Chromium</u>			232	2.50 R	-1.31	393			0.0004	-.30				
Meth: 190.00 PCT			<u>Other</u>			372	1.89	-2.06	232			0.0003	-.42				
<u>Water Soluble Chlori</u>			231	85.84	.88	Meth: 202.99 PPM			450			0.0002	-.46				
<u>Titrimetric</u>			Avg	79.49		<u>Acid Soluble Cobalt</u>			433			0.0002	-.47				
102	1.15	.71	027	73.14	-.85	<u>Other</u>			065			0.0001	-.51				
Meth: 190.99 PCT			Meth: 191.XX PPM			231			3.26	.71	041			0.0000	-.62		
<u>Water Soluble Chlori</u>			<u>Chromium</u>			Meth: 202.XX PPM			Meth: 221.99 PCT			Meth: 241.30 PCT					
<u>Other</u>			452	113.75	1.93	<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>					
009	1.27	-.71	450	97.50	.74	452			32.52 s	10.20	ICP						
Meth: 190.00 PCT			390	96.15	.62	136			11.50	2.70	231			0.0002	.87		
<u>Water Soluble Chlori</u>			220	94.50	.51	Avg			3.94		Avg			0.0002			
<u>Other</u>			049	90.81	.22	393			3.38	-.20	402			0.0001	-.87		
Meth: 190.99 PCT			065	90.65	.22	057			3.35	-.22	Meth: 221.99 PCT			Meth: 241.30 PCT			
<u>Water Soluble Chlori</u>			Meth: 191.XX PPM			Meth: 202.XX PPM			Meth: 221.99 PCT			Meth: 241.30 PCT					
<u>Other</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>					
Meth: 190.00 PCT			<u>ICP</u>			452			32.52 s	10.20	231			0.0002	.87		
<u>Water Soluble Chlori</u>			450			97.50	.74	136			11.50	2.70	Avg			0.0002	
<u>Other</u>			390			96.15	.62	Avg			3.94		402			0.0001	-.87
Meth: 190.99 PCT			220			94.50	.51	393			3.38	-.20	106			0.62	.94
<u>Water Soluble Chlori</u>			049			90.81	.22	057			3.35	-.22	114			0.62	.94
<u>Other</u>			065			90.65	.22										

* 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 Acid Soluble Iron			Meth: 241.30 PCT Acid Soluble Iron			Meth: 251.30 PPM Lead			Meth: 261.30 PCT Acid Soluble Manganese			Meth: 281.30 PPM Mercury		
ICP			114	0.62	1.02	ICP			ICP			450	1.00	1.29
324	0.61	.83	106	0.62	1.02	452	22.37 s	35.22	433	0.014	-.09	Avg	0.34	
354	0.60	.69	324	0.61	.91	065	2.29 R	3.27	232	0.011	-1.31	220	0.02	-.63
023	0.60	.63	354	0.60	.77	393	1.91	1.06	372	0.010	-2.11	372	0.01	-.66
096	0.60	.54	023	0.60	.72	450	1.50	.91						
360	0.60	.54	096	0.60	.64	Avg	1.27		Meth: 261.99 PCT Acid Soluble Manganese			Meth: 289.30 PPM Molybdenum		
255	0.59	.44	360	0.60	.63	102	1.14	-.23	Other			ICP		
231	0.59	.35	255	0.59	.54	372	0.54	-1.22	402	0.016	.00	450	8.00	.97
291	0.57	.20	231	0.59	.45	Meth: 251.99 PPM Lead			Meth: 261.99 PCT Acid Soluble Manganese			102	7.37	.62
432	0.57	.03	402	0.58	.25	Other			106	0.020	2.07	057	7.15	.56
Avg	0.57		291	0.57	.25	231	2.04	-.71	402	0.016	.54	393	7.23	.55
247	0.56	-.17	432	0.57	.16	Meth: 251.99 PPM Lead			065	0.016	.36	065	7.15	.50
444	0.56	-.43	351	0.57	.14	Other			102	0.015	.15	433	6.92	.38
300	0.54 X	-.60	Avg	0.56		231	2.04	-.25	444	0.015	.15	Avg	6.23	
232	0.53	-.71	247	0.56	-.03	Meth: 251.99 PPM Lead			096	0.015	.03	220	5.80	-.23
041	0.53	-.77	040	0.56	-.25	452	22.37 s	5.64	Avg	0.015		255	6.18 R	-.43
452	0.52	-1.18	095	0.54	-.37	136	10.20	2.11	049	0.015	.05	444	5.00 R	-.86
426	0.51	-1.22	177	0.54	-.38	Avg	2.89		096	0.015	.03	372	4.27	-1.07
433	0.50	-1.44	444	0.56	-.38	231	2.04	-.25	Avg	0.015		232	2.15	-2.23
027	0.44	-2.54	042	0.54	-.43	393	1.91	-.28	131	0.014 R	-.14	Meth: 289.99 PPM Molybdenum		
372	0.35 s	-4.39	300	0.54 X	-.45	450	1.50	-.43	057	0.014 R	-.17	Other		
			232	0.53	-.54	102	1.14	-.50	433	0.014	-.35	231	7.77	.71
			041	0.53	-.60	065	2.29 R	-.51	232	0.011	-1.21	Meth: 289.99 PPM Molybdenum		
			262	0.53	-.60	372	0.54	-.68	372	0.010	-1.77	Other		
			452	0.52	-1.00	Meth: 261.30 PCT Acid Soluble Manganese			Meth: 281.30 PPM Mercury			Meth: 289.99 PPM Molybdenum		
			426	0.51	-1.03	ICP			ICP			ICP		
			234	0.50	-1.23	106	0.020 s	3.42	450	1.00	.87	450	8.00	.90
			433	0.50	-1.23	065	0.016	.95	Avg	0.50		231	7.77	.78
			027	0.44	-2.27	102	0.015	.65	372	0.01	-.87	102	7.37	.55
			029	0.42	-2.71	444	0.015	.65				057	7.15	.50
			372	0.35 s	-4.02	049	0.015	.51	Meth: 281.99 PPM Mercury			393	7.23	.48
			428	0.24 s	-6.03	096	0.015	.46	Other			065	7.15	.43
			Meth: 251.00 PPM Lead			131	0.014	.29	220	0.02	.71	Avg	6.38	
			Atomic Absorption			057	0.014 R	.28	Meth: 281.99 PPM Mercury			220	5.80	-.32
			136	10.20	.71	Avg	0.014		Other			255	6.18 R	-.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: 321.00 PCT</u>			<u>Meth: 321.XX PCT</u>					
<u>Molybdenum</u>			<u>Nickel</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>					
444	5.00 R	-.95	393	0.00	-2.00	<u>Atomic Absorption</u>			450	0.002	-.19			
372	4.27	-1.17				220	0.002	-1.12	057	0.002	-.23			
232	2.15	-2.36							027	0.002	-.26			
<u>Meth: 291.00 PPM</u>			<u>Meth: 301.30 PPM</u>			<u>Meth: 321.30 PCT</u>			<u>Meth: 321.30 PCT</u>					
<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>					
<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>					
136	36.00	.87	372	0.00	.00	354	0.006 s	3.65	095	0.002	-.26			
Avg	29.50		450	0.00	.00	041	0.005 s	3.17	220	0.002	-.31			
220	23.00	-.87	Avg	0.00		393	0.004	1.62	372	0.000	-2.33			
<u>Meth: 291.30 PPM</u>			<u>Meth: 301.99 PPM</u>			<u>Meth: 321.99 PCT</u>			<u>Meth: 321.99 PCT</u>					
<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>					
<u>ICP</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>					
444	39.33	1.43	220	1.25	.87	450	0.002	.21	402	0.005	.85			
065	28.00	.21	Avg	0.74		057	0.002	.14	Avg	0.004				
450	27.50	.16	393	0.23	-.86	433	0.002	.09	231	0.003	-.88			
102	26.94	.10				027	0.002	.04						
Avg	26.10					232	0.002	.01						
049	25.77	-.12				Avg	0.002							
232	9.05	-1.83				372	0.000	-2.18						
<u>Meth: 291.99 PPM</u>			<u>Meth: 301.XX PPM</u>			<u>Meth: 321.99 PCT</u>			<u>Meth: 321.99 PCT</u>					
<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>					
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>					
393	0.00	.00	220	1.25 R	9.75	402	0.005	.85						
<u>Meth: 291.XX PPM</u>			<u>Meth: 311.99 PCT</u>			<u>Meth: 321.XX PCT</u>			<u>Meth: 321.XX PCT</u>					
<u>Nickel</u>			<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>					
444	39.33	1.29	<u>Other</u>			043	0.009 s	5.60						
136	36.00	1.01	232	0.64	1.29	354	0.006 R	3.20						
065	28.00	.34	Avg	0.50		041	0.005 R	2.83						
450	27.50	.30	102	0.43	-.61	402	0.005	2.17						
102	26.94	.25	057	0.42	-.69	393	0.004	1.27						
049	25.77	.17				231	0.003	.47						
Avg	23.95					324	0.003	.35						
220	23.00	-.12				Avg	0.003							
232	9.05	-1.24				065	0.003	-.07						
						433	0.002	-.18						

* 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	5	- 3.82	8.57	0.76	050.61	10	0.00	0.90	0.47
001.99	9	- 0.08	0.99	0.06	050.99	18	0.13	1.92	0.36
001.XX	14	- 0.42	1.98	0.17	050.XX	70	0.64	4.13	0.37
002.99	3	0.00	1.11	0.12	060.00	2	0.00	1.11	0.36
002.XX	3	0.00	1.11	0.12	060.XX	2	0.00	1.11	0.36
005.99	2	0.00	1.22	0.00	101.30	15	6.48	25.80	0.30
005.XX	3	0.00	1.10	0.16	101.XX	15	6.48	25.80	0.30
009.XX	2	0.00	1.22	0.04	121.00	11	0.59	2.18	0.13
010.11	8	0.00	1.01	0.23	121.30	31	- 0.66	4.43	0.26
010.12	5	1.22	2.87	0.20	121.99	4	0.00	0.96	0.42
010.60	55	0.99	7.67	0.45	121.XX	46	- 0.15	3.25	0.64
010.99	7	- 1.20	3.29	0.34	131.30	5	0.40	1.30	0.07
010.XX	75	0.66	6.13	0.40	131.XX	7	0.31	1.27	0.07
020.10	5	- 0.59	1.60	0.94	144.01	14	0.07	1.00	0.41
020.20	19	0.03	2.73	0.44	144.99	21	- 1.27	5.81	0.23
020.40	5	0.00	0.95	0.42	144.XX	36	- 0.86	5.28	0.25
020.50	9	- 0.11	2.38	0.29	151.30	5	0.94	2.29	0.25
020.99	5	0.00	1.04	0.21	151.99	2	0.00	0.52	0.78
020.XX	40	0.19	2.10	0.49	151.XX	8	0.67	1.88	0.38
030.99	2	0.00	0.00	0.00	165.99	3	0.000	0.666	0.733
030.XX	6	54.09	132.48	2.29	165.XX	4	2.201	4.496	4.966
040.40	2	0.00	1.20	0.18	181.00	2	0.00	0.25	0.85
040.99	2	0.00	1.22	0.02	181.30	7	0.67	1.86	0.22
040.XX	7	0.00	1.04	0.02	181.XX	10	0.54	1.93	0.31
041.10	14	0.28	1.61	0.40	190.XX	2	0.00	1.20	0.17
041.40	3	0.00	1.12	0.06	191.30	9	- 0.66	2.21	0.13
041.50	11	- 1.53	5.16	0.41	191.99	2	0.00	1.21	0.15
041.60	10	0.07	1.71	1.10	191.XX	12	- 0.54	2.10	0.13
041.99	3	0.00	1.12	0.06	202.30	8	6.44	18.63	0.57
041.XX	33	- 0.51	4.04	0.65	202.XX	10	1.02	3.37	0.12
048.20	2	0.00	1.21	0.12	221.00	3	0.0000	1.1174	0.0312
048.XX	3	0.22	1.21	0.02	221.30	10	0.2232	1.2004	0.1346
050.00	15	3.62	15.58	0.61	221.99	2	0.0000	1.2247	0.0000
050.10	3	8.43	14.62	0.78	221.XX	15	0.1313	1.1053	0.1025
050.30	9	0.32	3.80	0.33	241.00	8	- 1.72	3.60	0.34
050.31	2	0.00	1.20	0.17	241.30	24	- 0.10	1.37	0.35
050.50	7	0.00	1.03	0.14	241.99	4	0.00	1.05	0.22
050.51	9	0.00	0.98	0.30	241.XX	36	- 0.22	1.56	0.29
050.60	6	0.76	2.07	0.18	251.30	6	6.13	14.22	1.75

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
251.XX	8	0.68	2.18	0.27					
261.30	11	0.332	1.379	0.058					
261.XX	12	- 0.021	0.931	0.038					
281.30	2	0.00	1.22	0.00					
281.XX	3	0.00	1.12	0.00					
289.30	11	- 0.06	0.94	0.23					
289.XX	12	- 0.07	0.95	0.22					
291.00	2	0.00	1.21	0.13					
291.30	6	0.00	1.04	0.09					
291.XX	9	0.00	1.03	0.07					
301.30	2	0.00	0.00	0.00					
301.99	2	0.00	1.22	0.06					
301.XX	4	2.44	4.96	0.21					
311.99	3	0.00	1.12	0.05					
311.XX	3	0.00	1.12	0.05					
321.00	3	43.500	75.346	5.802					
321.30	11	0.551	1.454	0.780					
321.99	2	0.000	1.205	0.154					
321.XX	15	0.700	1.861	0.645					