

- Pass 1 Results for 88 Labs - - Pass 2 Results for 86 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	17.99	0.13	0.05	4	17.99	0.13	0.05
Ammoniacal Nitrogen, Other .....		001.99	7	17.95	0.20	0.05	7	17.95	0.20	0.05
Method Group 001.XX PCT			11	17.96	0.17	0.05	11	17.96	0.17	0.05
Ammon & Nitrate N, Devarda .....	892.01	009.10	3	18.08	0.28	0.13	3	18.08	0.28	0.13
Total Nitrogen, Modified Comprehensive	978.02	010.11	7	17.99	0.10	0.04	7	17.99	0.10	0.04
Total Nitrogen, Salicylic .....	955.04D	010.12	4	17.99	0.09	0.04	4	17.99	0.09	0.04
Total Nitrogen, Combustion .....		010.60	58	17.92	0.27	0.11	54	17.92	0.26	0.08
Total Nitrogen, Other .....		010.99	4	17.94	0.13	0.07	4	17.94	0.13	0.07
Method Group 010.XX PCT			74	17.93	0.26	0.11	69	17.93	0.24	0.07
Total Phosphate, Grav Quimociac .....	962.02	020.10	7	46.52	0.27	0.09	7	46.52	0.27	0.09
Total Phosphate, Spectrometric .....	958.01	020.20	16	46.46	0.75	0.31	14	46.42	0.73	0.18
Total Phosphate, Alka Quimociac .....	969.02	020.30	1	46.13	0.02	0.03	1	46.13	0.02	0.03
Total Phosphate, Automated .....	978.01	020.40	6	46.44	0.16	0.18	6	46.44	0.16	0.18
Total Phosphate, ICP .....		020.50	12	46.56	0.91	0.28	12	46.56	0.91	0.28
Total Phosphate, Other .....		020.99	6	46.38	0.64	0.20	5	46.61	0.34	0.06
Method Group 020.XX PCT			49	46.45	0.70	0.24	44	46.50	0.62	0.16
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.11	0.01	0.01	1	0.11	0.01	0.01
Insoluble Phosphate, Spectrometric ....	963.03C	030.20	2	0.30	0.29	0.01	2	0.30	0.29	0.01
Insoluble Phosphate, Automated .....	978.01	030.40	2	0.04	0.02	0.03	2	0.04	0.02	0.03
Insoluble Phosphate, ICP .....		030.50	2	0.07	0.04	0.01	2	0.07	0.04	0.01
Method Group 030.XX PCT			7	0.13	0.18	0.01	7	0.13	0.18	0.01
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	46.41	0.09	0.13	1	46.41	0.09	0.13
InDir Available Phosphate, Spectrometri	960.02	040.20	2	46.15	0.20	0.02	2	46.15	0.20	0.02
InDir Available Phosphate, Automated ..	960.02	040.40	2	46.46	0.05	0.06	2	46.46	0.05	0.06
InDir Available Phosphate, Other .....		040.99	1	46.47	0.01	0.01	1	46.47	0.01	0.01
Method Group 040.XX PCT			6	46.35	0.19	0.05	6	46.35	0.19	0.05
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	11	46.21	0.28	0.24	11	46.21	0.28	0.24
Dir Available Phosphate, Automated ....	978.01	041.40	2	46.59	0.44	0.04	2	46.59	0.44	0.04
Dir Available Phosphate, ICP .....		041.50	12	46.10	0.62	0.28	11	46.11	0.63	0.22
Dir Available Phosphate, EDTA Extract .	993.01	041.60	13	46.29	0.36	0.16	13	46.29	0.36	0.16
Dir Available Phosphate, Other .....		041.99	1	46.23	0.03	0.04	1	46.23	0.03	0.04
Method Group 041.XX PCT			40	46.20	0.47	0.21	38	46.20	0.47	0.18
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	40.65	0.42	0.60	1	40.65	0.42	0.60
Water Soluble Phosphate, Spectrometric	970.01	048.20	5	42.26	0.83	0.15	5	42.26	0.83	0.15
Water Soluble Phosphate, ICP .....		048.50	2	42.04	0.45	0.33	2	42.04	0.45	0.33
Method Group 048.XX PCT			8	42.00	0.87	0.25	8	42.00	0.87	0.25
Soluble Potash, STPB Oxalate .....	958.02	050.00	1	0.22	0.15	0.22	1	0.22	0.15	0.22
Soluble Potash, ICP (Oxalate) .....		050.50	4	0.20	0.03	0.01	4	0.20	0.03	0.01
Soluble Potash, ICP (Citrate) .....		050.51	8	0.20	0.12	0.01	7	0.21	0.12	0.00

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Soluble Potash, Flame (Citrate) .....	983.02(b)	050.61	1	0.27	0.01	0.01	1	0.27	0.01	0.01
Soluble Potash, Other .....		050.99	9	0.14	0.06	0.05	8	0.14	0.04	0.01
Method Group 050.XX PCT			24	0.18	0.09	0.05	21	0.18	0.08	0.01
Free Water, Vacuum Oven .....	965.08B	060.00	6	1.15	0.19	0.06	6	1.15	0.19	0.06
Method Group 060.XX PCT			6	1.15	0.19	0.06	6	1.15	0.19	0.06
Acid Soluble Calcium, ICP .....		101.30	16	0.31	0.03	0.01	14	0.31	0.03	0.00
Acid Soluble Calcium, Other .....		101.99	2	0.32	0.03	0.01	2	0.32	0.03	0.01
Method Group 101.XX PCT			18	0.31	0.03	0.01	16	0.31	0.03	0.00
Acid Soluble Magnesium, ICP .....		121.30	18	0.51	0.04	0.01	18	0.51	0.04	0.01
Method Group 121.XX PCT			18	0.51	0.04	0.01	18	0.51	0.04	0.01
Water Soluble Magnesium, AA .....		131.00	1	0.64	0.02	0.03	1	0.64	0.02	0.03
Sulfur, Gravimetric .....	980.02a	144.01	7	1.72	0.12	0.04	7	1.72	0.12	0.04
Sulfur, Gravimetric .....	980.02b	144.02	1	1.64	0.01	0.01	1	1.64	0.01	0.01
Sulfur, Other .....		144.99	23	1.63	0.13	0.07	21	1.62	0.12	0.05
Method Group 144.XX PCT			32	1.64	0.15	0.06	29	1.63	0.15	0.04
Arsenic, ICP .....		151.30	10	13.81	3.29	1.50	9	13.40	2.98	0.89
Arsenic, Other .....		151.99	2	12.69	2.74	0.46	2	12.69	2.74	0.46
Method Group 151.XX PPM			12	13.62	3.18	1.33	11	13.27	2.89	0.82
Acid Soluble Boron, Other .....		165.99	6	0.020	0.012	0.003	5	0.021	0.012	0.001
Cadmium, ICP .....		181.30	13	4.30	0.55	0.09	13	4.30	0.55	0.09
Cadmium, Other .....		181.99	2	4.69	0.75	0.32	2	4.69	0.75	0.32
Method Group 181.XX PPM			15	4.35	0.58	0.12	14	4.28	0.54	0.09
Chromium, ICP .....		191.30	12	81.01	7.48	1.70	12	81.01	7.48	1.70
Chromium, Other .....		191.99	1	85.70	2.12	3.00	1	85.70	2.12	3.00
Method Group 191.XX PPM			13	81.37	7.30	1.80	13	81.37	7.30	1.80
Acid Soluble Cobalt, ICP .....	965.11	202.30	11	3.73	0.59	0.12	10	3.78	0.59	0.06
Acid Soluble Cobalt, Other .....		202.99	2	3.23	0.22	0.10	2	3.23	0.22	0.10
Method Group 202.XX PPM			13	3.65	0.58	0.12	12	3.69	0.58	0.07
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	0.0004	0.0001	0.0001	1	0.0004	0.0001	0.0001
Acid Soluble Copper, ICP .....		221.30	9	0.6998	0.8286	0.0492	8	0.6248	0.8502	0.0303
Acid Soluble Copper, Other .....		221.99	2	1.0351	1.1978	0.1000	2	1.0351	1.1978	0.1000
Method Group 221.XX PCT			12	0.6974	0.8699	0.0536	10	0.4999	0.7977	0.0243
Acid Soluble Iron, ICP .....		241.30	17	1.04	0.10	0.03	17	1.04	0.10	0.03
Acid Soluble Iron, Other .....		241.99	1	1.26	0.04	0.05	1	1.26	0.04	0.05
Method Group 241.XX PCT			18	1.05	0.11	0.03	18	1.05	0.11	0.03
Lead, Atomic Absorption .....		251.00	1	1.41	0.08	0.12	1	1.41	0.08	0.12
Lead, ICP .....		251.30	8	2.69	1.01	0.26	8	2.69	1.01	0.26
Lead, Other .....		251.99	2	1.33	0.22	0.16	2	1.33	0.22	0.16
Method Group 251.XX PPM			11	2.33	1.05	0.23	11	2.33	1.05	0.23

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Acid Soluble Manganese, AA	972.02a	261.00	1	0.033	0.000	0.001	1	0.033	0.000	0.001
Acid Soluble Manganese, ICP	972.02a	261.30	14	0.034	0.003	0.001	13	0.034	0.003	0.000
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.034	0.000	0.000	1	0.034	0.000	0.000
Acid Soluble Manganese, Other		261.99	2	0.036	0.004	0.000	2	0.036	0.004	0.000
Method Group 261.XX PCT			18	0.035	0.003	0.001	17	0.035	0.003	0.000
Mercury, ICP		281.30	1	0.01	0.01	0.02	1	0.01	0.01	0.02
Molybdenum, ICP		289.30	10	13.40	1.16	0.19	10	13.40	1.16	0.19
Molybdenum, Other		289.99	1	16.70	0.71	1.00	1	16.70	0.71	1.00
Method Group 289.XX PPM			11	13.70	1.48	0.27	10	13.40	1.16	0.19
Nickel, ICP		291.30	13	14.85	3.22	0.31	11	14.93	3.49	0.17
Nickel, Other		291.99	1	20.25	1.63	2.30	1	20.25	1.63	2.30
Method Group 291.XX PPM			14	15.23	3.43	0.46	13	14.85	3.22	0.31
Selenium, ICP		301.30	1	11.00	1.13	1.60	1	11.00	1.13	1.60
Selenium, Other		301.99	1	5.70	1.31	1.85	1	5.70	1.31	1.85
Method Group 301.XX PPM			2	8.35	3.22	1.72	2	8.35	3.22	1.72
Sodium, Flame Photometric	974.01	311.30	1	0.16	0.01	0.02	1	0.16	0.01	0.02
Sodium, Other		311.99	8	0.13	0.02	0.00	8	0.13	0.02	0.00
Method Group 311.XX PCT			9	0.13	0.02	0.01	8	0.13	0.02	0.00
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	0.007	0.000	0.000	1	0.007	0.000	0.000
Acid Soluble Zinc, ICP		321.30	21	0.007	0.001	0.000	19	0.007	0.001	0.000
Acid Soluble Zinc, Other		321.99	3	0.005	0.003	0.000	3	0.005	0.003	0.000
Method Group 321.XX PCT			25	0.007	0.002	0.000	23	0.007	0.002	0.000
Water Soluble Zinc, Other		325.99	1	0.006	0.000	0.000	1	0.006	0.000	0.000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 009.10 PCT			Meth: 010.60 PCT			Meth: 010.60 PCT			Meth: 010.XX PCT		
Ammoniacal Nitrogen			Ammon & Nitrate N			Total Nitrogen			Total Nitrogen			Total Nitrogen		
<u>MqO Distillation</u>			<u>Devarda</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>		
397	18.15	1.33	444	18.40	1.18	055	18.21	1.09	451	17.72	-.90	029	18.03 R	1.21
444	18.02	.33	Avg	18.08		025	18.19	1.03	292	17.69	-.90	055	18.21	1.15
Avg	17.99		090	18.04	-.20	354	18.13	.92	233	17.91 R	-.94	025	18.19	1.08
232	17.96	-.25	258	17.80	-1.03	136	18.16	.91	057	17.66	-1.03	354	18.13	.97
456	17.84	-1.25	Meth: 010.11 PCT			390	18.15	.88	324	17.65	-1.07	136	18.16	.95
258	17.14 s	-7.03	Total Nitrogen			360	18.15	.87	351	17.62	-1.18	390	18.15	.91
Meth: 001.99 PCT			<u>Modified Comprehensi</u>			307	18.15	.87	489	17.60	-1.24	307	18.15	.91
Ammoniacal Nitrogen			105	18.12	1.23	405	18.13	.79	490	17.60	-1.24	405	18.13	.82
<u>Other</u>			211	18.07	.74	291	18.11	.70	389	17.60	-1.24	105	18.12	.78
479	18.11	.83	371	18.04	.46	096	18.09	.68	042	17.57	-1.43	291	18.11	.72
096	18.08	.68	090	18.02	.32	022	18.10	.68	102	17.55	-1.45	096	18.09	.70
027	18.05	.58	309	18.00	.06	177	18.08	.59	472	17.53	-1.52	022	18.10	.70
473	18.02	.39	Avg	17.99		040	17.95	.59	452	17.51	-1.57	040	17.95	.64
493	17.96	.31	114	17.87	-1.28	231	18.07	.59	095	17.41	-1.99	177	18.08	.60
Avg	17.95		137	17.85	-1.57	409	18.07	.58	009	17.41	-2.07	231	18.07	.60
169	17.88	-.34	Meth: 010.12 PCT			043	18.06	.51	491	17.40 R	-2.27	409	18.07	.59
489	17.52	-2.16	Total Nitrogen			049	18.04	.49	255	17.79 S	-3.04	211	18.07	.57
Meth: 001.XX PCT			<u>Salicylic</u>			479	18.04	.46	Meth: 010.99 PCT			455	18.05	.53
Ammoniacal Nitrogen			455	18.05	.86	426	18.04	.45	Total Nitrogen			460	18.05	.53
397	18.15	1.12	254	18.06	.78	023	17.98	.42	<u>Other</u>			254	18.06	.53
479	18.11	.85	Avg	17.99		232	18.03	.41	460	18.05	.94	043	18.06	.51
096	18.08	.68	481	17.99	-.06	406	17.99	.26	476	17.97	.46	049	18.04	.49
027	18.05	.58	185	17.86	-1.47	230	17.95	.22	300	17.99	.45	479	18.04	.46
444	18.02	.38	Meth: 010.60 PCT			377	17.97	.21	Avg	17.94		371	18.04	.45
473	18.02	.35	Total Nitrogen			444	17.97	.20	255	17.74	-1.48	426	18.04	.45
Avg	17.96		<u>Combustion</u>			368	17.96	.14	487	17.46 s	-4.55	023	17.98	.43
232	17.96	-.01	443	18.75 S	3.23	131	17.94	.11	Meth: 010.XX PCT			232	18.03	.40
493	17.96	-.34	482	18.45 S	2.66	024	17.95	.10	Total Nitrogen			090	18.02	.37
169	17.88	-.48	478	18.50	2.22	Avg	17.92		443	18.75 s	3.51	309	18.00	.28
456	17.84	-.73	475	18.42	1.91	035	17.90	-.11	482	18.45 s	2.90	300	17.99	.26
489	17.52	-2.56	260	18.26 R	1.63	086	17.92	-.16	478	18.50	2.40	476	17.97	.26
258	17.14 s	-4.90	325	18.30	1.50	157	17.85	-.34	475	18.42	2.06	406	17.99	.24
			483	18.30	1.45	105	17.88	-.34	260	18.26 R	1.76	230	17.95	.22
			029	18.03 R	1.12	027	17.91	-.45	475	18.42	2.06	481	17.99	.21
						450	17.75	-.69	260	18.26 R	1.76	377	17.97	.20
						486	17.71	-.84	325	18.30	1.60	444	17.97	.17
						402	17.72	-.87	483	18.30	1.55	368	17.96	.11

\* 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: 020.10 PCT			Meth: 020.40 PCT			Meth: 020.99 PCT			Meth: 020.XX PCT		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>		
131	17.94	.11	<u>Grav Quimociac</u>			<u>Automated</u>			<u>Other</u>			405	46.42	-.18
024	17.95	.08	043	46.57	.25	486	46.46	1.14	476	46.30	-.91	473	46.37	-.23
Avg	17.93		211	46.57	.17	096	46.54	.64	322	46.19	-1.24	486	46.46	-.31
035	17.90	-.17	493	46.55	.12	456	46.49	.34	472	45.25 R	-4.23	476	46.30	-.34
086	17.92	-.19	Avg	46.52		409	46.47	.24				291	46.28	-.37
114	17.87	-.30	090	46.51	-.26	Avg	46.44		Meth: 020.XX PCT			105	46.28	-.37
185	17.86	-.37	105	46.45	-.33	105	46.28	-1.00	<u>Total Phosphate</u>			035	46.39	-.46
105	17.88	-.41	444	46.04	-1.81	035	46.39	-1.62	451	51.65 s	8.31	322	46.19	-.51
157	17.85	-.42	157	44.95 s	-5.92				482	49.70 s	5.16	300	46.15	-.57
137	17.85	-.47				Meth: 020.50 PCT			483	49.50 s	4.84	428	46.16 X	-.59
027	17.91	-.50	Meth: 020.20 PCT			<u>Total Phosphate</u>			390	48.60 s	3.68	095	46.13	-.61
450	17.75	-.81	<u>Total Phosphate</u>			<u>ICP</u>			397	48.30	2.91	426	46.45	-.62
255	17.74	-.82	<u>Spectrometric</u>			451	51.65 S	5.57	452	47.71	1.95	169	46.09	-.68
486	17.71	-.97	397	48.30	2.56	482	49.70 S	3.44	491	47.57	1.73	258	46.30 R	-.73
402	17.72	-1.00	230	47.30 R	1.45	483	49.50 S	3.22	230	47.30 R	1.61	444	46.04	-.77
451	17.72	-1.03	481	47.40	1.36	390	48.60 S	2.44	481	47.40	1.49	292	45.93	-.93
292	17.69	-1.04	406	46.83	.55	452	47.71	1.26	371	47.35	1.37	324	46.25 R	-1.13
233	17.91 R	-1.04	231	46.50	.17	491	47.57	1.11	478	47.14	1.12	309	45.51	-1.61
057	17.66	-1.18	489	46.53	.15	371	47.35	.86	114	46.99	.78	450	45.42	-1.76
324	17.65	-1.22	Avg	46.42		478	47.14	.71	460	46.95	.72	389	45.30	-1.94
351	17.62	-1.35	473	46.37	-.08	255	46.65	.11	455	46.95	.72	472	45.25 R	-2.15
489	17.60	-1.42	405	46.42	-.09	402	46.66	.11	406	46.83	.52	157	44.95	-2.57
490	17.60	-1.42	300	46.15	-.37	479	46.58	.01	368	46.54	.49	490	44.55 R	-3.24
389	17.60	-1.42	428	46.16 X	-.39	Avg	46.56		402	46.66	.25	307	43.97 s	-4.16
042	17.57	-1.63	169	46.09	-.46	291	46.28	-.32	255	46.65	.25	042	1.03 s	-73.46
102	17.55	-1.65	258	46.30	-.57	368	46.54	-.33	487	46.64	.22			
472	17.53	-1.72	292	45.93	-.67	426	46.45	-.43	043	46.57	.13	Meth: 030.10 PCT		
452	17.51	-1.78	324	46.25 R	-.92	389	45.30	-1.38	479	46.58	.11	<u>Insoluble Phosphate</u>		
095	17.41	-2.24	309	45.51	-1.25	490	44.55	-2.26	090	46.51	.11	<u>Grav Quimociac</u>		
009	17.41	-2.32	450	45.42	-1.37	307	43.97 S	-2.89	211	46.57	.11	090	0.11	-.71
487	17.46 R	-2.53	042	1.03 s	-61.83				493	46.55	.08			
491	17.40 R	-2.55				Meth: 020.99 PCT			096	46.54	.08	Meth: 030.20 PCT		
255	17.79 s	-3.36	Meth: 020.30 PCT			<u>Total Phosphate</u>			489	46.53	.04	<u>Insoluble Phosphate</u>		
			<u>Total Phosphate</u>			<u>Other</u>			Avg	46.50		<u>Spectrometric</u>		
			<u>Alka Quimociac</u>			455	46.95	1.03	456	46.49	-.03	489	0.55	.87
			095	46.13	.71	460	46.95	1.03	409	46.47	-.06	Avg	0.30	
						487	46.64	.11	105	46.45	-.12	473	0.04	-.87
						Avg	46.61		231	46.50	-.16			

\* 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: 030.40 PCT			Meth: 040.20 PCT			Meth: 041.10 PCT			Meth: 041.60 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>Automated</u>			<u>Spectrometri</u>			<u>Grav Quimociac</u>			<u>EDTA Extract</u>					
096	0.05	1.01	Avg	46.15		131	46.10	-.65	043	46.50	.56	105	46.27	.26
Avg	0.04		489	45.98	-.86	009	45.90	-1.13	136	46.41	.34	233	46.29	.23
409	0.04	-.69	Meth: 040.40 PCT			Meth: 041.40 PCT			Avg			105		
Meth: 030.50 PCT			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			233			095		
<u>Insoluble Phosphate</u>			<u>Automated</u>			<u>Automated</u>			231			086		
<u>ICP</u>			096	46.49	1.08	Meth: 041.40 PCT			024			Avg		
479	0.10	.84	Avg	46.46		<u>Dir Available Phosph</u>			105			254		
Avg	0.07		409	46.43	-.58	<u>Automated</u>			073			024		
255	0.04	-.89	Meth: 040.99 PCT			Avg			177			049		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			095			029			105		
<u>Other</u>			<u>Other</u>			472			351			131		
232	46.53 S	.00	479	46.47	.71	Meth: 041.50 PCT			397			354		
Meth: 030.XX PCT			Meth: 040.XX PCT			Dir Available Phosph			Meth: 041.99 PCT			073		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>ICP</u>			<u>Dir Available Phosph</u>			177		
232	46.53 s	258.12	096	46.49	.80	377	46.75	1.03	<u>Other</u>			029		
489	0.55	2.33	479	46.47	.67	255	46.61	.81	105			009		
Avg	0.13		090	46.41	.46	452	46.59	.77	Meth: 041.XX PCT			102		
090	0.11	-.15	409	46.43	.43	360	46.48	.61	<u>Dir Available Phosph</u>			351		
479	0.10	-.17	Avg	46.35		025	46.45	.60	028			475		
096	0.05	-.49	473	46.33	-.16	137	46.46	.57	027			023		
473	0.04	-.51	489	45.98	-2.00	486	46.30	.44	022			185		
255	0.04	-.51	Meth: 041.10 PCT			Avg			377			055		
409	0.04	-.51	<u>Dir Available Phosph</u>			354			255			397		
Meth: 040.10 PCT			<u>Grav Quimociac</u>			475			452			368		
<u>InDir Available Phos</u>			022			46.02 R			452			472		
<u>Grav Quim</u>			055			46.02 R			452					
090	46.41	.71	45.16			-.78			055					
Meth: 040.20 PCT			043			-1.32			117					
<u>InDir Available Phos</u>			043			-1.55			117					
<u>Spectrometri</u>			325			-1.67			360					
473	46.33	.87	368			-1.82			043					
Meth: 041.60 PCT			368			-4.59			025					
<u>Dir Available Phosph</u>			Meth: 041.60 PCT						137					
<u>EDTA Extract</u>			<u>Dir Available Phosph</u>						486					
			<u>EDTA Extract</u>						136					
			028			2.53			057					
			117			.73			177					

\* 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: 048.20 PCT</u>			<u>Meth: 050.50 PCT</u>			<u>Meth: 050.99 PCT</u>			<u>Meth: 060.00 PCT</u>			<u>Meth: 101.30 PCT</u>		
<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>		
<u>Spectrometric</u>			<u>ICP (Oxalate)</u>			<u>Other</u>			<u>Vacuum Oven</u>			<u>ICP</u>		
096	42.83	.68	354	0.22	.69	402	0.14	.09	409	1.43	1.50	482	0.31	.00
473	42.80	.65	Avg	0.20		Avg	0.14		456	1.24	.46	Avg	0.31	
479	42.59	.41	324	0.19	-.72	490	0.10	-1.08	096	1.23	.40	009	0.30	-.27
409	42.36	.13	231	0.17	-1.21	460	0.10	-1.08	Avg	1.15		232	0.29	-.65
Avg	42.26					450	0.10	-1.52	473	1.12	-.41	307	0.29	-.75
450	40.74	-1.85	<u>Meth: 050.51 PCT</u>			<u>Meth: 050.XX PCT</u>			479	1.02	-.70	022	0.28	-.93
			<u>Soluble Potash</u>			<u>Soluble Potash</u>			493	0.88	-1.49	027	0.28	-1.10
			<u>ICP (Citrate)</u>			<u>443 48.88 s 589.49</u>			<u>Meth: 060.99 PCT</u>			472	0.30 R	-1.39
			475	0.44	1.92	022	0.65 s	6.45	<u>Free Water</u>			491	0.27	-1.43
			096	0.30	.71	475	0.44	3.15	<u>Other</u>			<u>Meth: 101.99 PCT</u>		
			Avg	0.21		255	0.23 R	2.22	<u>486 11.13 S .00</u>			<u>Acid Soluble Calcium</u>		
			377	0.20	-.08	009	0.22 R	1.42				<u>Other</u>		
			486	0.18	-.24	096	0.30	1.40				484	0.35	.87
			009	0.18	-.24	024	0.27	1.03				Avg	0.32	
			478	0.13 R	-.79	292	0.23	.61				105	0.30	-.86
			389	0.10	-.91	354	0.22	.49				<u>Meth: 101.XX PCT</u>		
			452	0.07	-1.16	377	0.20	.25				<u>Acid Soluble Calcium</u>		
			<u>Meth: 050.60 PCT</u>			324	0.19	.19				483	0.53 s	8.34
			<u>Soluble Potash</u>			009	0.18	.00				479	0.39 s	3.56
			<u>Flame (Oxalate)</u>			482	0.18	.00				096	0.38	2.48
			443	48.88 S	.00	486	0.18	.00				354	0.35 R	1.87
			<u>Meth: 050.61 PCT</u>			Avg	0.18					484	0.35	1.23
			<u>Soluble Potash</u>			481	0.18	-.08				035	0.34	1.04
			<u>Flame (Citrate)</u>			409	0.17	-.17				131	0.33	.56
			024	0.27	.71	231	0.17	-.19				473	0.32	.48
			<u>Meth: 050.99 PCT</u>			473	0.15	-.36				478	0.32	.22
			<u>Soluble Potash</u>			402	0.14	-.44				479	0.39 s	3.57
			<u>Other</u>			478	0.13	-.86				096	0.38	2.52
			255	0.23 s	5.33	460	0.10	-.97				354	0.35 R	1.89
			325	0.15 R	4.04	490	0.10	-.97				035	0.34	1.08
			482	0.18	1.08	389	0.10	-.97				131	0.33	.61
			481	0.18	.95	450	0.10	-1.07				473	0.32	.51
			409	0.17	.85	452	0.07	-1.33				389	0.32	.26
			473	0.15	.27	325	0.15 R	-1.85				478	0.32	.26
												102	0.31	.17
												022	0.28	-.99

\* 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: 101.XX PCT			Meth: 121.XX PCT			Meth: 144.99 PCT			Meth: 144.XX PCT			Meth: 151.30 PPM		
<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>			<u>Sulfur</u>			<u>Arsenic</u>		
027	0.28	-1.16	472	0.54	.62	<u>Other</u>			102	1.75	.84	<u>ICP</u>		
472	0.30 R	-1.42	473	0.53	.31	325	3.90 s	18.73	481	1.75	.81	Avg	13.40	
491	0.27	-1.50	102	0.53	.30	368	1.82 R	2.06	452	1.73	.66	102	12.77	-.23
Meth: 121.30 PCT			Avg	0.51		483	1.78	1.36	450	1.72	.63	009	11.40	-.69
<u>Acid Soluble Magnesi</u>			482	0.51	-.07	255	1.75	1.33	478	1.69	.42	095	10.63	-.93
<u>ICP</u>			131	0.51	-.07	390	1.76	1.31	095	1.68	.37	486	10.04	-1.13
483	0.61	2.26	022	0.51	-.17	102	1.75	1.06	231	1.68	.35	Meth: 151.99 PPM		
035	0.57	1.35	009	0.51	-.19	452	1.73	.84	479	1.68	.33	<u>Arsenic</u>		
478	0.56	1.01	389	0.50	-.44	450	1.72	.81	324	1.65	.26	<u>Other</u>		
479	0.54	.69	232	0.49	-.59	478	1.69	.56	027	1.63	.20	409	15.05	.87
472	0.54	.62	096	0.48	-.78	231	1.68	.47	473	1.63	.07	Avg	12.69	
473	0.53	.31	307	0.47	-1.08	479	1.68	.44	292	1.64	.05	484	10.33	-.87
102	0.53	.30	027	0.47	-1.10	027	1.63	.25	Avg	1.63		Meth: 151.XX PPM		
491	0.52	.29	354	0.42	-2.20	473	1.63	.10	409	1.62	-.09	<u>Arsenic</u>		
Avg	0.51		105	0.34 s	-4.12	Avg	1.62		102	1.62	-.17	481	20.17	2.39
482	0.51	-.07	Meth: 131.00 PCT			409	1.62	-.09	444	1.61	-.23	444	1.61	-.29
131	0.51	-.07	<u>Water Soluble Magnes</u>			472	1.59	-.32	444	1.61	-.30	472	1.59	-.30
022	0.51	-.17	<u>AA</u>			444	1.61	-.33	482	1.61	-.41	482	1.61	-.41
009	0.51	-.19	484	0.64	.71	482	1.61	-.48	389	1.56	-.50	389	1.56	-.50
389	0.50	-.44	Meth: 144.01 PCT			232	1.54	-.67	232	1.54	-.59	232	1.54	-.59
232	0.49	-.59	<u>Sulfur</u>			096	1.51	-.98	096	1.51	-.84	096	1.51	-.84
096	0.48	-.78	<u>Gravimetric</u>			009	1.50	-1.04	009	1.50	-.89	009	1.50	-.89
307	0.47	-1.08	043	1.96	1.91	486	1.50	-1.06	486	1.50	-.91	486	1.50	-.91
027	0.47	-1.10	057	1.81	.68	360	1.55 R	-1.23	360	1.55 R	-1.03	360	1.55 R	-1.03
354	0.42	-2.20	481	1.75	.28	354	1.29	-2.74	354	1.29	-2.29	354	1.29	-2.29
Meth: 121.99 PCT			Avg	1.72		035	1.20 s	-3.49	035	1.20	-2.91	035	1.20	-2.91
<u>Acid Soluble Magnesi</u>			095	1.68	-.38	490	1.00 s	-5.14	490	1.00 s	-4.27	490	1.00 s	-4.27
<u>Other</u>			324	1.65	-.69	Meth: 144.XX PCT			Meth: 151.30 PPM			Meth: 165.99 PCT		
105	0.34 S	.00	102	1.62	-.87	<u>Sulfur</u>			<u>Arsenic</u>			<u>Acid Soluble Boron</u>		
Meth: 121.XX PCT			444	1.61	-.98	325	3.90 s	15.37	<u>ICP</u>			<u>Other</u>		
<u>Acid Soluble Magnesi</u>			Meth: 144.02 PCT			043	1.96	2.22	481	20.17	2.28	483	0.032	.95
483	0.61	2.26	<u>Sulfur</u>			368	1.82 R	1.67	105	17.50 R	1.81	354	0.031	.79
035	0.57	1.35	<u>Gravimetric</u>			057	1.81	1.20	450	14.00	.70	491	0.028	.55
478	0.56	1.01	292	1.64	.71	483	1.78	1.08	368	14.30	.30	Avg	0.021	
479	0.54	.69	Meth: 144.02 PCT			255	1.75 R	1.07	478	13.75	.25	472	0.013 R	-.83
Meth: 144.02 PCT			<u>Sulfur</u>			390	1.76	1.04	096	13.55	.07			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 165.99 PCT Acid Soluble Boron			Meth: 181.XX PPM Cadmium			Meth: 191.XX PPM Chromium			Meth: 202.99 PPM Acid Soluble Cobalt			Meth: 221.30 PCT Acid Soluble Copper		
<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>Other</u>			<u>ICP</u>		
482	0.010	-.90	232	4.40	.22	102	89.98	1.18	255	3.05	-.85	433	0.0001	-.73
232	0.004	-1.36	452	4.36	.14	478	87.50	.91	Avg	3.23		452	0.0001	-.73
			009	4.30	.03	409	85.70	.63	255	3.05	-.85	450	0.0001	-.73
			Avg	4.28		481	85.72	.60						
Meth: 181.30 PPM Cadmium			Meth: 191.30 PPM Chromium			Meth: 202.XX PPM Acid Soluble Cobalt			Meth: 221.99 PCT Acid Soluble Copper			Meth: 221.99 PCT Acid Soluble Copper		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Other</u>			<u>Other</u>		
481	5.23	1.67	105	3.80	-.92	096	83.35	.27	095	4.58	1.54	409	2.0700	.87
095	5.14	1.51	486	3.45	-1.55	009	82.40	.23	478	4.39	1.21	Avg	1.0351	
478	4.72	.75	368	3.35	-1.74	Avg	81.37		102	4.04	.60	484	0.0002	-.86
482	4.54	.44	035	0.45 s	-7.14	232	77.35	-.56	482	4.03	.60			
102	4.49	.34				450	77.00	-.61	452	3.98	.51			
232	4.40	.18	Meth: 191.30 PPM Chromium			027	73.00	-1.15	368	3.95	.46	Meth: 221.XX PCT Acid Soluble Copper		
452	4.36	.10	<u>ICP</u>			486	62.40	-2.60	009	3.90	.37	<u>ICP</u>		
Avg	4.30		102	89.98	1.20	035	8.79 s	-9.95	409	3.41	-.49	409	2.0700 R	1.97
009	4.30	.00	478	87.50	.93	Meth: 202.30 PPM Acid Soluble Cobalt			096	3.20	-.84	478	2.0500	1.94
450	4.10	-.40	481	85.72	.64	<u>ICP</u>			105	3.25 R	-.97	491	1.5500	1.32
096	4.05	-.46	368	85.20	.57	095	4.58	1.36	255	3.05	-1.10	232	1.3900	1.12
105	3.80	-.92	452	84.94	.53	478	4.39	1.04	232	2.98	-1.23	368	1.3000 R	1.01
486	3.45	-1.53	482	83.25	.32	482	4.03	.44	486	2.75	-1.62	Avg	0.4999	
368	3.35	-1.72	096	83.35	.31	102	4.04	.44	035	0.42 s	-5.66	324	0.0073	-.62
035	0.45 s	-6.95	009	82.40	.25	452	3.98	.35	450	0.00 s	-6.38	354	0.0010	-.63
Meth: 181.99 PPM Cadmium			Meth: 191.99 PPM Chromium			Meth: 221.00 PCT Acid Soluble Copper			Meth: 221.00 PCT Acid Soluble Copper			Meth: 221.00 PCT Acid Soluble Copper		
<u>Other</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>		
409	5.31	.90	232	77.35	-.50	043	0.0004	.71	043	0.0004	.71	484	0.0002	-.63
Avg	4.69		450	77.00	-.55	Avg	3.78					433	0.0001	-.63
484	4.07	-.83	027	73.00	-1.08	096	3.20	-.99				452	0.0001	-.63
			486	62.40	-2.49	105	3.25 R	-1.08				450	0.0001	-.63
			035	8.79 s	-9.66	232	2.98	-1.37						
Meth: 181.XX PPM Cadmium			Meth: 191.99 PPM Chromium			Meth: 221.30 PCT Acid Soluble Copper			Meth: 221.30 PCT Acid Soluble Copper			Meth: 241.30 PCT Acid Soluble Iron		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
409	5.31 R	1.97	409	85.70	.71	478	2.0500	1.68	478	2.0500	1.68	389	1.25	2.10
481	5.23	1.76				491	1.5500	1.09	491	1.5500	1.09	483	1.18	1.38
095	5.14	1.59				232	1.3900	.90	232	1.3900	.90	035	1.17	1.30
478	4.72	.80				368	1.3000 R	.80	368	1.3000 R	.80	478	1.09	.51
482	4.54	.49				Avg	0.6248		Avg	0.6248		472	1.08	.44
102	4.49	.38				324	0.0073	-.73	324	0.0073	-.73	096	1.07	.24
						354	0.0010	-.73	354	0.0010	-.73	022	1.05	.08

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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: 241.30 PCT</u>			<u>Meth: 241.XX PCT</u>			<u>Meth: 251.XX PPM</u>			<u>Meth: 261.99 PCT</u>			<u>Meth: 289.30 PPM</u>		
<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Other</u>			<u>ICP</u>		
Avg	1.04		354	0.84	-2.06	450	1.65	-.65	484	0.040	.86	095	14.90	1.30
479	1.04	-.10	<u>Meth: 251.00 PPM</u>			484	1.49	-.80	Avg	0.036		368	14.40	.89
102	1.02	-.19	<u>Lead</u>			481	1.41	-.87	105	0.033	-.87	105	14.00	.51
131	1.04	-.21	<u>Atomic Absorption</u>			409	1.18	-1.10	483	0.015 S	-5.37	232	13.85	.40
482	1.04	-.27	481	1.41	-.71	102	1.10	-1.17	<u>Meth: 261.XX PCT</u>			102	13.87	.40
473	1.02	-.28	<u>Meth: 251.30 PPM</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			452	13.69	.25
402	0.99	-.52	<u>Lead</u>			<u>AA</u>			484	0.040	1.96	009	13.45	.06
491	0.98	-.71	<u>ICP</u>			105	0.033	.71	482	0.035 R	1.79	Avg	13.40	
027	0.97	-.72	368	6.25 s	3.72	<u>Meth: 261.30 PCT</u>			482	0.037	.91	096	13.10	-.27
232	0.91	-1.37	482	4.22	1.54	<u>Acid Soluble Manganese</u>			491	0.037	.89	481	11.83	-1.36
354	0.84	-2.14	105	3.55	.91	<u>ICP</u>			478	0.037	.89	486	10.95	-2.11
<u>Meth: 241.99 PCT</u>			095	3.12	.42	<u>482 0.035 R 1.84</u>			022	0.036	.53	035	1.26 s	-10.44
<u>Acid Soluble Iron</u>			486	3.00	.32	<u>491 0.037 .99</u>			035	0.036	.50	<u>Meth: 289.99 PPM</u>		
<u>Other</u>			452	2.88	.18	<u>102 0.037 .97</u>			096	0.036	.43	<u>Molybdenum</u>		
484	1.26	.71	Avg	2.69		<u>478 0.037 .97</u>			131	0.035	.26	<u>Other</u>		
<u>Meth: 241.XX PCT</u>			478	2.03	-.66	<u>022 0.036 .61</u>			402	0.035	.18	484	58.93 S	59.73
<u>Acid Soluble Iron</u>			450	1.65	-1.03	<u>035 0.036 .58</u>			Avg	0.035		409	16.70	.71
484	1.26	1.90	102	1.10	-1.57	<u>096 0.036 .50</u>			324	0.034	-.10	Avg	16.70	
389	1.25	1.80	<u>Meth: 251.99 PPM</u>			<u>131 0.035 .33</u>			009	0.034	-.18	<u>Meth: 289.XX PPM</u>		
483	1.18	1.14	<u>Lead</u>			<u>402 0.035 .25</u>			105	0.033	-.50	<u>Molybdenum</u>		
035	1.17	1.07	<u>Other</u>			<u>Avg 0.034</u>			105	0.033	-.58	484	58.93 s	39.11
478	1.09	.35	484	1.49	.97	<u>009 0.034 -.12</u>			472	0.034	-.64	255	24.18 s	9.41
472	1.08	.31	Avg	1.33		<u>472 0.034 -.62</u>			232	0.031	-1.09	409	16.70 R	2.86
096	1.07	.12	409	1.18	-.75	<u>232 0.031 -1.05</u>			389	0.030	-1.61	095	14.90	1.30
Avg	1.05		<u>Meth: 251.XX PPM</u>			<u>389 0.030 -1.57</u>			354	0.029	-2.13	368	14.40	.89
022	1.05	-.08	<u>Lead</u>			<u>Meth: 261.31 PCT</u>			<u>Meth: 281.30 PPM</u>			105	14.00	.51
479	1.04	-.16	<u>368 6.25 s 3.91</u>			<u>Acid Soluble Manganese</u>			<u>Mercury</u>			232	13.85	.40
131	1.04	-.23	482	4.22	1.82	<u>ICP</u>			<u>ICP</u>			102	13.87	.40
102	1.02	-.28	105	3.55	1.21	<u>450 0.01 .71</u>			<u>Meth: 289.30 PPM</u>			452	13.69	.25
482	1.04	-.29	095	3.12	.75	<u>Meth: 289.XX PPM</u>			<u>Molybdenum</u>			009	13.45	.06
473	1.02	-.37	486	3.00	.64	<u>Meth: 281.30 PPM</u>			<u>Meth: 289.30 PPM</u>			Avg	13.40	
402	0.99	-.58	452	2.88	.52	<u>Mercury</u>			<u>Molybdenum</u>			096	13.10	-.27
491	0.98	-.75	Avg	2.33		<u>ICP</u>			<u>ICP</u>			481	11.83	-1.36
027	0.97	-.76	478	2.03	-.29	<u>255 24.18 s 9.41</u>			<u>ICP</u>			486	10.95	-2.11
232	0.91	-1.36	<u>Meth: 251.99 PPM</u>			<u>Meth: 281.30 PPM</u>			<u>Meth: 289.30 PPM</u>			035	1.26 s	-10.44

\* 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: 291.30 PPM			Meth: 291.XX PPM			Meth: 311.XX PCT			Meth: 321.30 PCT			Meth: 321.XX PCT		
<u>Nickel</u>			<u>Nickel</u>			<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
ICP			232	13.75	-.38	478	0.16 R	1.77	ICP			232	0.006	-.39
105	29.00 s	4.07	486	11.40	-1.07	473	0.16	1.67	433	0.006	-.86	433	0.006	-.62
096	18.10	.91	325	5.80	-2.81	009	0.15	.93	255	0.006 R	-.87	105	0.006	-.63
478	17.86	.84	035	2.00 s	-3.99	102	0.14	.49	027	0.005	-.99	255	0.006 R	-.68
095	17.45	.72	Meth: 301.30 PPM			354	0.13	.26	105	0.005 R	-1.19	027	0.005	-.73
102	16.76	.52	<u>Selenium</u>			Avg	0.13		483	0.005	-1.55	105	0.005 R	-.91
368	16.65	.49	<u>ICP</u>			035	0.13	-.12	472	0.005	-1.60	483	0.005	-1.21
481	15.77	.24	368	11.00	.71	232	0.12	-.87	Meth: 321.99 PCT			472	0.005	-1.26
009	15.05 R	.16	Meth: 301.99 PPM			307	0.11	-1.13	<u>Acid Soluble Zinc</u>			484	0.002	-2.74
450	15.00	.02	<u>Selenium</u>			482	0.11	-1.22	<u>Other</u>			Meth: 325.99 PCT		
Avg	14.93		<u>Selenium</u>			Meth: 321.00 PCT			409	0.008	1.02	<u>Water Soluble Zinc</u>		
452	14.73	-.06	<u>Other</u>			<u>Acid Soluble Zinc</u>			105	0.006	.19	<u>Other</u>		
482	14.70	-.09	255	5.70	.71	<u>Atomic Absorption</u>			Avg	0.005		450	0.006	.71
232	13.75 R	-.37	Meth: 301.XX PPM			043	0.007	.71	484	0.002	-1.19			
486	11.40	-1.01	<u>Selenium</u>			Meth: 321.30 PCT			Meth: 321.XX PCT			Meth: 321.XX PCT		
325	5.80	-2.61	<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>					
035	2.00 s	-3.70	368	11.00	.86	<u>ICP</u>			096	0.050 s	25.06			
Meth: 291.99 PPM			Avg	8.35		096	0.050 s	29.02	035	0.041 s	20.78			
<u>Nickel</u>			255	5.70	-.87	035	0.041 s	24.05	368	0.035 s	16.70			
<u>Other</u>			Meth: 311.30 PCT			368	0.035 s	19.30	292	0.010	1.98			
409	20.25	.71	<u>Sodium</u>			292	0.010	2.16	482	0.010	1.98			
Meth: 291.XX PPM			<u>Flame Photometric</u>			482	0.010	2.16	009	0.008	.81			
<u>Nickel</u>			478	0.16	.71	009	0.008	.81	452	0.008	.74			
105	29.00 s	4.43	Meth: 311.99 PCT			452	0.008	.73	409	0.008	.73			
409	20.25 R	1.71	<u>Sodium</u>			354	0.008	.58	354	0.008	.60			
096	18.10	1.01	<u>Other</u>			491	0.007	.16	043	0.007	.37			
478	17.86	.93	473	0.16	1.67	481	0.007	.13	491	0.007	.26			
095	17.45	.81	402	0.007	.13	402	0.007	.13	481	0.007	.23			
102	16.76	.59	102	0.14	.49	102	0.007	.13	102	0.007	.23			
368	16.65	.56	354	0.13	.26	478	0.007	.09	402	0.007	.23			
481	15.77	.29	Avg	0.13		Avg	0.007		478	0.007	.18			
009	15.05	.18	035	0.13	-.12	324	0.006	-.31	Avg	0.007				
450	15.00	.05	232	0.12	-.87	450	0.006	-.31	324	0.006	-.15			
Avg	14.85		307	0.11	-1.13	095	0.006	-.38	450	0.006	-.15			
452	14.73	-.04	482	0.11	-1.22	486	0.006	-.41	095	0.006	-.21			
482	14.70	-.08				232	0.006	-.59	486	0.006	-.23			

\* 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	- 1.36	3.17	0.85	101.99	2	0.00	1.20	0.17
001.99	7	0.00	1.03	0.16	101.XX	20	0.58	2.06	0.88
001.XX	12	- 0.39	1.67	0.42	121.30	18	0.00	1.00	0.15
009.10	3	0.00	1.08	0.24	121.XX	19	- 0.22	1.36	0.14
009.XX	3	0.00	1.08	0.24	144.01	7	0.00	1.02	0.19
010.11	7	0.00	0.99	0.31	144.99	26	0.43	4.03	0.43
010.12	4	0.00	1.01	0.33	144.XX	32	0.39	3.00	0.34
010.60	61	0.07	1.09	0.55	151.30	10	0.14	1.04	0.44
010.99	5	- 0.73	1.86	1.24	151.99	2	0.00	1.22	0.08
010.XX	75	0.04	1.12	0.52	151.XX	12	0.12	1.04	0.42
020.10	8	- 0.72	2.25	0.49	165.99	6	- 0.116	0.988	0.198
020.20	17	- 3.58	15.04	0.34	165.XX	6	- 0.116	0.988	0.198
020.40	6	0.00	0.56	0.81	181.30	14	- 0.50	2.10	0.10
020.50	17	0.68	2.08	0.34	181.99	2	0.00	1.17	0.26
020.99	6	- 0.67	1.89	0.55	181.XX	16	- 0.33	2.10	0.16
020.XX	54	- 1.12	10.22	0.39	191.30	13	- 0.74	2.85	0.13
030.20	2	0.00	1.22	0.02	191.XX	14	- 0.71	2.83	0.14
030.40	2	0.00	0.24	0.85	202.30	13	- 1.01	2.44	0.18
030.50	2	0.00	1.19	0.20	202.99	2	0.00	1.18	0.24
030.XX	8	32.26	91.26	0.29	202.XX	15	- 0.85	2.30	0.17
040.20	2	0.00	1.22	0.05	221.30	9	0.0882	1.0031	0.0517
040.40	2	0.00	0.78	0.67	221.99	2	0.0000	1.2219	0.0590
040.XX	6	0.00	1.03	0.19	221.XX	12	0.2476	1.1132	0.0599
041.10	12	- 0.31	1.33	0.53	241.30	17	0.00	1.00	0.16
041.40	3	- 3.67	6.42	3.22	241.XX	18	0.00	1.00	0.15
041.50	14	- 0.54	1.63	0.32	251.30	9	0.39	1.51	0.45
041.60	14	- 0.44	1.90	0.29	251.99	2	0.00	1.04	0.45
041.XX	39	- 0.58	2.16	0.95	251.XX	12	0.31	1.44	0.37
048.20	5	0.00	1.05	0.11	261.30	14	0.018	0.968	0.512
048.50	2	0.00	1.01	0.49	261.99	3	- 1.778	3.198	0.361
048.XX	8	0.00	1.01	0.19	261.XX	18	- 0.356	1.944	0.493
050.00	2	1.39	1.96	1.26	289.30	12	- 0.10	4.31	0.49
050.50	4	0.00	1.03	0.27	289.99	2	29.86	42.23	0.67
050.51	8	- 0.09	0.99	0.13	289.XX	14	2.91	11.17	0.48
050.99	10	0.27	1.13	2.00	291.30	15	0.00	1.70	0.16
050.XX	25	23.83	117.85	1.55	291.XX	16	0.13	1.83	0.19
060.00	6	0.00	1.03	0.19	301.XX	2	0.00	1.16	0.27
060.XX	7	7.62	20.19	0.18	311.99	8	0.00	1.02	0.14
101.30	18	0.65	2.14	0.92	311.XX	9	0.19	1.11	0.23

## Method Evaluation - Z Values Based on 1 Reports

<u>Method Code</u>	<u>Number Of Labs</u>	<u>Avg Bias of Labs</u>	<u>Std Dev of Biases</u>	<u>Std Dev Within Labs</u>	<u>Method Code</u>	<u>Number Of Labs</u>	<u>Avg Bias of Labs</u>	<u>Std Dev of Biases</u>	<u>Std Dev Within Labs</u>
321.30	24	2.907	8.247	1.387					
321.99	3	0.000	1.116	0.054					
321.XX	27	2.269	6.761	1.123					