

- Pass 1 Results for 83 Labs - - Pass 2 Results for 83 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	3	5.12	0.11	0.14	3	5.12	0.11	0.14
Ammoniacal Nitrogen, Other		001.99	5	5.18	0.18	0.06	5	5.18	0.18	0.06
Method Group 001.XX PCT			8	5.16	0.15	0.09	8	5.16	0.15	0.09
Nitrate Nitrogen, Other		002.99	2	0.07	0.01	0.01	2	0.07	0.01	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	4	5.69	0.65	0.10	4	5.69	0.65	0.10
Ammon & Nitrate N, Other		009.99	1	5.00	0.01	0.01	1	5.00	0.01	0.01
Method Group 009.XX PCT			5	5.55	0.64	0.08	5	5.55	0.64	0.08
Total Nitrogen, Modified Comprehensive	978.02	010.11	9	5.37	0.16	0.03	9	5.37	0.16	0.03
Total Nitrogen, Salicylic	955.04D	010.12	3	5.38	0.12	0.04	3	5.38	0.12	0.04
Total Nitrogen, Comprehensive	970.02	010.17	1	5.59	0.11	0.15	1	5.59	0.11	0.15
Total Nitrogen, Combustion		010.60	52	5.40	0.14	0.04	50	5.41	0.13	0.04
Total Nitrogen, Other		010.99	8	5.45	0.26	0.04	9	5.52	0.32	0.05
Method Group 010.XX PCT			74	5.41	0.17	0.05	72	5.40	0.16	0.04
Total Phosphate, Grav Quimociac	962.02	020.10	5	20.01	0.13	0.12	5	20.01	0.13	0.12
Total Phosphate, Spectrometric	958.01	020.20	16	20.04	0.40	0.10	16	20.04	0.40	0.10
Total Phosphate, Automated	978.01	020.40	5	19.93	0.22	0.09	4	19.98	0.20	0.03
Total Phosphate, ICP		020.50	15	19.85	0.56	0.20	15	19.85	0.56	0.20
Total Phosphate, Other		020.99	3	19.03	0.31	0.05	3	19.03	0.31	0.05
Method Group 020.XX PCT			44	19.89	0.48	0.13	42	19.87	0.48	0.11
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Insoluble Phosphate, Spectrometric	963.03C	030.20	2	0.05	0.01	0.01	2	0.05	0.01	0.01
Insoluble Phosphate, Alka Quimociac	963.03C	030.30	1	0.04	0.02	0.03	1	0.04	0.02	0.03
Insoluble Phosphate, Automated	978.01	030.40	1	0.04	0.01	0.02	1	0.04	0.01	0.02
Insoluble Phosphate, ICP		030.50	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Insoluble Phosphate, Other		030.99	1	0.05	0.01	0.01	1	0.05	0.01	0.01
Method Group 030.XX PCT			7	0.04	0.02	0.01	7	0.04	0.02	0.01
InDir Available Phosphate, Grav Quim	960.02	040.10	1	20.05	0.05	0.07	1	20.05	0.05	0.07
InDir Available Phosphate, Spectrometri	960.02	040.20	1	19.96	0.04	0.06	1	19.96	0.04	0.06
InDir Available Phosphate, Automated	960.02	040.40	1	19.96	0.01	0.01	1	19.96	0.01	0.01
InDir Available Phosphate, Other		040.99	3	20.07	0.13	0.08	3	20.07	0.13	0.08
Method Group 040.XX PCT			6	20.03	0.10	0.06	6	20.03	0.10	0.06
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	10	19.97	0.15	0.06	10	19.97	0.15	0.06
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	19.88	0.20	0.28	1	19.88	0.20	0.28
Dir Available Phosphate, Automated	978.01	041.40	4	19.84	0.26	0.27	4	19.84	0.26	0.27
Dir Available Phosphate, ICP		041.50	11	19.97	0.36	0.18	10	19.92	0.33	0.13
Dir Available Phosphate, EDTA Extract	993.01	041.60	14	20.04	0.18	0.13	13	20.05	0.16	0.09
Dir Available Phosphate, Other		041.99	1	19.86	0.03	0.04	1	19.86	0.03	0.04
Method Group 041.XX PCT			42	19.96	0.25	0.14	39	19.96	0.23	0.10
Water Soluble Phosphate, Spectrometric	970.01	048.20	5	16.33	0.76	0.11	5	16.33	0.76	0.11

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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
Water Soluble Phosphate, ICP		048.50	1	16.76	0.16	0.23	1	16.76	0.16	0.23
Method Group 048.XX PCT			6	16.40	0.71	0.13	6	16.40	0.71	0.13
Soluble Potash, STPB Oxalate	958.02	050.00	11	20.50	0.46	0.23	10	20.53	0.43	0.14
Soluble Potash, AA (Oxalate)		050.30	8	20.14	0.69	0.30	8	20.14	0.69	0.30
Soluble Potash, AA (Citrate)		050.31	2	19.03	0.20	0.27	2	19.03	0.20	0.27
Soluble Potash, ICP (Oxalate)		050.50	9	20.02	0.60	0.26	9	20.02	0.60	0.26
Soluble Potash, ICP (Citrate)		050.51	9	20.52	0.35	0.21	9	20.52	0.35	0.21
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	5	19.96	0.48	0.21	5	19.96	0.48	0.21
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	9	20.50	0.25	0.22	9	20.50	0.25	0.22
Soluble Potash, Other		050.99	23	20.21	0.56	0.30	23	20.21	0.56	0.30
Method Group 050.XX PCT			76	20.25	0.57	0.26	75	20.25	0.57	0.25
Free Water, Vacuum Oven	965.08B	060.00	4	0.75	0.08	0.02	4	0.75	0.08	0.02
Acid Soluble Calcium, AA	945.04	101.00	1	2.40	0.01	0.02	1	2.40	0.01	0.02
Acid Soluble Calcium, ICP		101.30	15	2.64	0.18	0.10	14	2.63	0.18	0.08
Acid Soluble Calcium, Other		101.99	1	2.35	0.00	0.00	1	2.35	0.00	0.00
Method Group 101.XX PCT			17	2.61	0.19	0.09	16	2.60	0.19	0.07
Acid Soluble Magnesium, AA	984.01	121.00	11	2.39	0.15	0.05	11	2.39	0.15	0.05
Acid Soluble Magnesium, ICP		121.30	38	2.31	0.17	0.04	35	2.31	0.17	0.03
Acid Soluble Magnesium, Other		121.99	2	2.31	0.03	0.02	2	2.31	0.03	0.02
Method Group 121.XX PCT			51	2.33	0.17	0.04	49	2.33	0.17	0.04
Water Soluble Magnesium, AA		131.00	2	1.86	0.09	0.06	2	1.86	0.09	0.06
Water Soluble Magnesium, ICP		131.30	6	1.93	0.22	0.06	6	1.93	0.22	0.06
Method Group 131.XX PCT			8	1.91	0.20	0.06	8	1.91	0.20	0.06
Sulfur, Gravimetric	980.02a	144.01	16	7.47	0.21	0.10	16	7.47	0.21	0.10
Sulfur, Gravimetric	980.02b	144.02	1	7.94	0.02	0.03	1	7.94	0.02	0.03
Sulfur, Other		144.99	30	7.30	0.33	0.10	29	7.32	0.32	0.09
Method Group 144.XX PCT			47	7.37	0.31	0.10	46	7.39	0.30	0.09
Arsenic, Atomic Absorption		151.00	1	3.65	0.07	0.10	1	3.65	0.07	0.10
Arsenic, ICP		151.30	9	4.21	2.73	0.35	8	3.79	2.60	0.23
Arsenic, Other		151.99	1	3.81	0.01	0.01	1	3.81	0.01	0.01
Method Group 151.XX PPM			11	4.12	2.46	0.30	9	3.91	2.40	0.11
Acid Soluble Boron, Spectrometric	982.01	165.00	7	0.293	0.017	0.006	7	0.293	0.017	0.006
Acid Soluble Boron, Other		165.99	28	0.286	0.035	0.012	26	0.285	0.034	0.008
Method Group 165.XX PCT			35	0.287	0.032	0.011	33	0.286	0.032	0.008
Water Soluble Boron, Other		171.99	4	0.269	0.023	0.013	4	0.269	0.023	0.013
Cadmium, Atomic Absorption		181.00	2	29.23	2.18	1.45	2	29.23	2.18	1.45
Cadmium, ICP		181.30	14	27.40	1.78	1.26	13	27.32	1.52	0.82
Cadmium, Other		181.99	1	25.80	0.40	0.57	1	25.80	0.40	0.57
Method Group 181.XX PPM			17	27.52	1.89	1.24	16	27.46	1.71	0.88

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Water Soluble Chlorine, Titrimetric ...	928.02	190.00	2	11.65	0.55	0.21	2	11.65	0.55	0.21
Chromium, ICP		191.30	12	103.79	11.71	5.08	11	102.77	11.10	3.33
Chromium, Other		191.99	1	101.64	1.81	2.56	1	101.64	1.81	2.56
Method Group 191.XX PPM			13	103.62	11.25	4.89	12	102.68	10.62	3.27
Acid Soluble Cobalt, AA		202.00	1	3.00	0.00	0.00	1	3.00	0.00	0.00
Acid Soluble Cobalt, ICP	965.11	202.30	10	4.36	0.81	0.19	9	4.34	0.85	0.13
Acid Soluble Cobalt, Other		202.99	1	3.67	0.06	0.09	1	3.67	0.06	0.09
Method Group 202.XX PPM			13	3.97	1.11	0.16	12	3.93	1.14	0.11
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0.0040	0.0004	0.0003	3	0.0040	0.0004	0.0003
Acid Soluble Copper, ICP		221.30	17	0.0035	0.0011	0.0004	15	0.0034	0.0011	0.0003
Acid Soluble Copper, Other		221.99	2	0.0035	0.0000	0.0000	2	0.0035	0.0000	0.0000
Method Group 221.XX PCT			22	0.0035	0.0010	0.0004	19	0.0034	0.0010	0.0002
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	11	0.60	0.03	0.01	11	0.60	0.03	0.01
Acid Soluble Iron, ICP		241.30	39	0.59	0.04	0.01	38	0.59	0.04	0.01
Acid Soluble Iron, Other		241.99	1	0.66	0.00	0.00	1	0.66	0.00	0.00
Method Group 241.XX PCT			51	0.60	0.04	0.01	50	0.60	0.04	0.01
Lead, Atomic Absorption		251.00	1	4.75	0.16	0.22	1	4.75	0.16	0.22
Lead, ICP		251.30	9	3.07	1.31	0.21	8	3.07	1.38	0.13
Lead, Other		251.99	1	3.53	0.04	0.06	1	3.53	0.04	0.06
Method Group 251.XX PPM			11	3.27	1.28	0.20	10	3.28	1.33	0.13
Acid Soluble Manganese, AA	972.02a	261.00	9	0.014	0.003	0.001	9	0.014	0.003	0.001
Acid Soluble Manganese, AA	972.02b	261.11	1	0.014	0.001	0.001	1	0.014	0.001	0.001
Acid Soluble Manganese, ICP	972.02a	261.30	24	0.015	0.003	0.001	23	0.015	0.003	0.001
Acid Soluble Manganese, ICP	972.02b	261.31	2	0.016	0.001	0.001	2	0.016	0.001	0.001
Acid Soluble Manganese, Other		261.99	5	0.015	0.006	0.000	4	0.015	0.007	0.000
Method Group 261.XX PCT			41	0.015	0.003	0.001	39	0.015	0.003	0.001
Water Soluble Manganese, ICP	972.03	271.30	2	0.004	0.001	0.001	2	0.004	0.001	0.001
Water Soluble Manganese, Other		271.99	1	0.012	0.000	0.000	1	0.012	0.000	0.000
Method Group 271.XX PCT			3	0.007	0.004	0.000	3	0.007	0.004	0.000
Mercury, Atomic Absorption		281.00	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Mercury, ICP		281.30	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Mercury, Other		281.99	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Method Group 281.XX PPM			3	0.02	0.01	0.00	3	0.02	0.01	0.00
Molybdenum, ICP		289.30	12	6.29	0.70	0.31	10	6.16	0.65	0.14
Molybdenum, Other		289.99	2	6.92	0.80	0.11	2	6.92	0.80	0.11
Method Group 289.XX PPM			14	6.38	0.73	0.28	12	6.29	0.72	0.13
Nickel, Atomic Absorption		291.00	1	30.50	0.71	1.00	1	30.50	0.71	1.00
Nickel, ICP		291.30	15	19.81	2.95	1.01	14	19.57	2.86	0.80
Nickel, Other		291.99	1	15.45	0.04	0.05	1	15.45	0.04	0.05

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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 291.XX PPM			17	20.18	3.95	0.95	16	20.00	3.97	0.76
Selenium, ICP		301.30	2	0.03	0.03	0.01	2	0.03	0.03	0.01
Selenium, Other		301.99	2	0.62	0.44	0.08	2	0.62	0.44	0.08
Method Group 301.XX PPM			4	0.32	0.43	0.04	4	0.32	0.43	0.04
Sodium, Flame Photometric	974.01	311.30	1	0.51	0.01	0.02	1	0.51	0.01	0.02
Sodium, Other		311.99	8	0.53	0.06	0.01	8	0.53	0.06	0.01
Method Group 311.XX PCT			9	0.53	0.06	0.01	9	0.53	0.06	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	14	0.529	0.036	0.015	14	0.529	0.036	0.015
Acid Soluble Zinc, ICP		321.30	36	0.542	0.035	0.021	35	0.541	0.034	0.018
Acid Soluble Zinc, Other		321.99	4	0.588	0.035	0.026	3	0.577	0.013	0.002
Method Group 321.XX PCT			55	0.544	0.041	0.019	52	0.540	0.035	0.017
Water Soluble Zinc, ICP		325.30	2	0.295	0.300	0.010	2	0.295	0.300	0.010
Water Soluble Zinc, Other		325.99	1	0.549	0.008	0.011	1	0.549	0.008	0.011
Method Group 325.XX PCT			3	0.380	0.267	0.010	3	0.380	0.267	0.010

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index		
Meth: 001.10 PCT Ammoniacal Nitrogen <u>MqO Distillation</u>			Meth: 009.10 PCT Ammon & Nitrate N <u>Devarda</u>			Meth: 010.12 PCT Total Nitrogen <u>Salicylic</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.99 PCT Total Nitrogen <u>Other</u>				
232	5.18	.86	393	6.73	1.59	254	5.53	1.26	177	5.41	.13	137	5.72	.61		
444	5.17	.66	Avg	5.69		Avg	5.38		Avg	5.41		072	5.57	.23		
Avg	5.12		444	5.50	-.30	481	5.31	-.61	040	5.40	-.05	Avg	5.45			
456	5.03	-1.15	090	5.28	-.63	185	5.30	-.73	009	5.40	-.06	476	5.47	-.17		
			169	5.25	-.69				231	5.40	-.09	460	5.39	-.42		
Meth: 001.99 PCT Ammoniacal Nitrogen <u>Other</u>			Meth: 009.99 PCT Ammon & Nitrate N <u>Other</u>			Meth: 010.17 PCT Total Nitrogen <u>Comprehensive</u>			292			5.40	-.11	255	5.36	-.56
393	6.73	S 8.61	027	5.00	.71	479	5.59	.71	307	5.39	-.20	371	5.25	-.86		
022	5.35	1.01							034	5.37	-.26	420	5.01	-1.61		
371	5.30	.71							354	5.37	-.29					
096	5.28	.57	Meth: 009.XX PCT Ammon & Nitrate N			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			402	5.37	-.32	Meth: 010.XX PCT <u>Total Nitrogen</u>				
Avg	5.18		393	6.73	1.82	478	6.07	S 5.01	325	5.37	-.34	030	6.09	S 4.24		
420	5.02	-.89	Avg	5.55		426	5.76	S 2.79	230	5.36	-.44	478	6.07	S 4.12		
027	4.93	-1.36	444	5.50	-.12	255	5.71	2.35	233	5.36	-.46	200	5.87	2.88		
			090	5.28	-.42	475	5.70	2.20	102	5.34	-.51	426	5.76	R 2.31		
Meth: 001.XX PCT <u>Ammoniacal Nitrogen</u>			169	5.25	-.49	275	5.64	1.77	360	5.36	-.52	137	5.72	1.96		
393	6.73	S 10.15	027	5.00	-.86	422	5.64	1.76	007	5.35	-.57	255	5.71	1.95		
022	5.35	1.30				072	5.60	1.45	136	5.33	-.62	475	5.70	1.82		
371	5.30	.96	Meth: 010.11 PCT Total Nitrogen <u>Modified Comprehensive</u>			043	5.60	1.44	232	5.32	-.66	275	5.64	1.47		
096	5.28	.79	309	5.63	1.60	291	5.57	1.29	234	5.32	-.70	422	5.64	1.46		
232	5.18	.50	456	5.63	1.57	095	5.56	1.16	023	5.32	-.71	309	5.63	1.42		
444	5.17	.36	Avg	5.37		420	5.56	1.12	444	5.32	-.75	456	5.63	1.38		
Avg	5.16		114	5.37	-.06	042	5.48	R .95	324	5.31	-.75	479	5.59	1.22		
420	5.02	-.91	105	5.36	-.08	472	5.50	.73	450	5.30	-.81	072	5.60	1.21		
456	5.03	-.97	211	5.35	-.14	482	5.50	.71	330	5.30	-.81	043	5.60	1.20		
027	4.93	-1.45	474	5.36	-.14	405	5.49	.63	037	5.30	-.81	072	5.57	1.10		
			090	5.32	-.39	035	5.43	.49	157	5.23	-1.33	291	5.57	1.07		
Meth: 002.99 PCT Nitrate Nitrogen <u>Other</u>			470	5.23	-.91	389	5.46	.37	377	5.22	-1.45	095	5.56	.97		
027	0.07	.87	260	5.12	-1.57	247	5.45	.33	351	5.19	-1.64	420	5.56	.94		
232	0.07	.87				131	5.45	.31	406	5.16	-1.88	042	5.48	R .79		
Avg	0.07					029	5.45	.31	027	5.10	-2.32	254	5.53	.76		
						041	5.43	.30	368	5.03	R -2.93	472	5.50	.62		
						096	5.45	.29				482	5.50	.60		
						049	5.42	.27	Meth: 010.99 PCT Total Nitrogen <u>Other</u>			405	5.49	.54		
						055	5.43	.18	030	6.09	S 1.75	476	5.47	.41		
									200	5.87	1.07	035	5.43	.41		
												389	5.46	.32		

* 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: 020.99 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>		
247	5.45	.29	330	5.30	-.64	<u>Spectrometric</u>			<u>Other</u>			234	19.85	-.29
029	5.45	.27	037	5.30	-.65	450	19.90	-.43	476	19.37	1.08	169	19.70	-.36
131	5.45	.27	185	5.30	-.69	234	19.85	-.60	460	19.05	.17	035	19.68	-.42
096	5.45	.26	371	5.25	-.96	169	19.70	-.86	Avg	19.03		157	19.80	-.44
041	5.43	.25	157	5.23	-1.07	200	19.65	-.99	137	18.67	-1.14	042	19.72	-.48
049	5.42	.23	470	5.23	-1.11	420	19.63	-1.05	Meth: 020.XX PCT			200	19.65	-.48
055	5.43	.16	377	5.22	-1.17	309	19.23	-2.07	<u>Total Phosphate</u>			420	19.63	-.52
177	5.41	.11	351	5.19	-1.32	Meth: 020.40 PCT			406	20.67	1.64	476	19.37	-1.06
292	5.40	.09	406	5.16	-1.52	<u>Total Phosphate</u>			478	20.65	1.61	368	19.32	-1.16
Avg	5.40		260	5.12	-1.77	<u>Automated</u>			426	20.61	1.54	309	19.23	-1.36
040	5.40	-.02	027	5.10	-1.89	247	20.18	.98	232	20.61	1.53	432	19.19	-1.48
009	5.40	-.03	368	5.03	-2.38	456	20.07	.48	307	20.47 R	1.38	422	19.15	-1.51
231	5.40	-.07	420	5.01	-2.45	096	20.00	.08	324	20.50	1.32	460	19.05	-1.72
460	5.39	-.11	Meth: 020.10 PCT			Avg	19.98		481	20.40	1.09	482	18.80	-2.24
307	5.39	-.15	<u>Total Phosphate</u>			035	19.68	-1.52	292	20.36	1.01	137	18.67	-2.50
034	5.37	-.20	<u>Grav Quimociac</u>			042	19.72 R	-1.54	247	20.27	.81	255	16.81 s	-6.38
354	5.37	-.22	114	20.14	1.02	Meth: 020.50 PCT			479	20.21	.71	Meth: 030.10 PCT		
114	5.37	-.22	090	20.08	.58	<u>Total Phosphate</u>			247	20.18	.63	<u>Insoluble Phosphate</u>		
402	5.37	-.24	Avg	20.01		<u>ICP</u>			402	20.00 R	.60	<u>Grav Quimociac</u>		
325	5.37	-.26	470	19.93	-.64	478	20.65	1.44	114	20.14	.55	090	0.03	.00
105	5.36	-.27	444	20.00	-1.08	426	20.61	1.37	090	20.08	.42	Meth: 030.20 PCT		
474	5.36	-.32	041	19.92	-1.25	307	20.47	1.23	456	20.07	.41	<u>Insoluble Phosphate</u>		
211	5.35	-.33	Meth: 020.20 PCT			247	20.27	.75	389	20.05	.38	<u>Spectrometric</u>		
230	5.36	-.34	<u>Total Phosphate</u>			402	20.00	.54	444	20.00	.38	474	0.06	.82
233	5.36	-.36	<u>Spectrometric</u>			389	20.05	.37	291	20.03	.33	Avg	0.05	
102	5.34	-.40	406	20.67	1.58	291	20.03	.32	474	20.02	.30	405	0.04	-.91
360	5.36	-.41	232	20.61	1.45	444	19.90	.10	041	19.92	.27	Meth: 030.30 PCT		
007	5.35	-.46	324	20.50	1.19	Avg	19.85		096	20.00	.25	<u>Insoluble Phosphate</u>		
136	5.33	-.49	481	20.40	.91	393	19.75	-.18	405	19.95	.20	<u>Alka Quimociac</u>		
255	5.36	-.51	292	20.36	.81	330	19.80	-.20	231	19.95	.19	479	0.04	.71
232	5.32	-.52	479	20.21	.45	157	19.80	-.37	450	19.90	.18	Meth: 030.40 PCT		
234	5.32	-.56	371	20.05	.09	368	19.32	-.97	470	19.93	.12	<u>Insoluble Phosphate</u>		
023	5.32	-.56	Avg	20.04		432	19.19	-1.25	444	19.90	.08	<u>Automated</u>		
090	5.32	-.57	474	20.02	-.09	422	19.15	-1.27	Avg	19.87		096	0.04	.71
324	5.31	-.59	231	19.95	-.26	482	18.80	-1.90	330	19.80	-.26			
444	5.32	-.60	405	19.95	-.27	255	16.81 s	-5.49	393	19.75	-.26			
481	5.31	-.61												
450	5.30	-.64												

* 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>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
Meth: 030.50 PCT			Meth: 040.99 PCT			Meth: 041.40 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>ICP</u>			<u>Other</u>			<u>Automated</u>			<u>EDTA Extract</u>			177	20.00	.21
255	0.00	.00	479	20.16	.81	472	19.90	1.57	351	19.96	-.85	377	19.96	.17
			247	20.13	.49	131	20.03	.74	029	19.91	-.94	Avg	19.96	
Meth: 030.99 PCT			Avg	20.07		Avg	19.84		136	19.80	-1.54	029	19.91	-.36
<u>Insoluble Phosphate</u>			405	19.92	-1.27	095	19.76	-.36	034	19.77	-1.69	055	19.87	-.40
<u>Other</u>						027	19.69	-.61	397	19.93 R	-1.78	105	19.86	-.42
247	0.05	.71	Meth: 040.XX PCT			072	18.24 s	-6.56				040	19.90	-.49
			<u>InDir Available Phos</u>						Meth: 041.99 PCT			325	19.90	-.49
Meth: 030.XX PCT			479	20.16	1.37	Meth: 041.50 PCT			<u>Dir Available Phosph</u>			049	19.84	-.50
<u>Insoluble Phosphate</u>			247	20.13	1.00	<u>Dir Available Phosph</u>			<u>Other</u>			055	19.85	-.53
474	0.06	1.11	090	20.05	.38	<u>ICP</u>			296	20.68 S	33.00	105	19.80	-.67
479	0.04	.83	Avg	20.03		475	20.57	1.97	105	19.86	.71	030	19.88	-.68
096	0.04	.61	096	19.96	-.70	007	20.41 R	1.77	Avg	19.86		136	19.80	-.69
247	0.05	.59	474	19.96	-.72	009	20.21	.88	230	18.10 S	-63.81	360	19.85	-.79
Avg	0.04		405	19.92	-1.21	043	20.05	.41				034	19.77	-.80
405	0.04	-.29	255	16.81 s	-31.23	377	19.96	.17	Meth: 041.XX PCT			102	19.79	-.84
090	0.03	-.33				Avg	19.92		<u>Dir Available Phosph</u>			095	19.76	-.88
255	0.00	-1.91	Meth: 041.10 PCT			055	19.85	-.29	296	20.68 s	3.66	397	19.93 R	-1.15
			<u>Dir Available Phosph</u>			325	19.90	-.31	475	20.57	2.64	027	19.69	-1.16
Meth: 040.10 PCT			<u>Grav Quimociac</u>			040	19.90	-.31	007	20.41 R	2.39	023	19.58	-1.66
<u>InDir Available Phos</u>			211	20.26	1.90	360	19.85	-.51	231	20.35	1.71	472	19.90 R	-1.75
<u>Grav Quim</u>			254	20.11	.97	023	19.58	-1.08	211	20.26	1.31	185	19.50	-2.01
090	20.05	-.71	009	20.03	.49	393	19.36	-1.71	009	20.21	1.11	393	19.36	-2.56
			072	20.03	.36	354	17.69 s	-6.82	043	20.17	.92	072	18.24 s	-7.82
Meth: 040.20 PCT			131	20.01	.27				117	20.14	.82	230	18.10 s	-8.17
<u>InDir Available Phos</u>			177	20.00	.22	Meth: 041.60 PCT			296	20.13	.82	354	17.69 s	-9.78
<u>Spectrometri</u>			Avg	19.97		<u>Dir Available Phosph</u>			254	20.11	.70			
474	19.96	-.71	055	19.87	-.72	<u>EDTA Extract</u>			073	20.11	.67	Meth: 048.20 PCT		
			049	19.84	-.88	231	20.35	1.87	037	20.08	.58	<u>Water Soluble Phosph</u>		
Meth: 040.40 PCT			105	19.80	-1.13	043	20.17	.75	233	20.06	.56	<u>Spectrometric</u>		
<u>InDir Available Phos</u>			102	19.79	-1.38	296	20.13	.70	177	20.08	.56	420	17.75	1.86
<u>Automated</u>			185	19.50 s	-3.17	117	20.14	.64	105	20.07	.51	Avg	16.33	
096	19.96	.71				233	20.06	.52	351	19.96	.47	405	16.21	-.17
			Meth: 041.20 PCT			073	20.11	.39	043	20.05	.44	474	16.01	-.44
Meth: 040.50 PCT			<u>Dir Available Phosph</u>			037	20.08	.36	131	20.03	.41	479	15.87	-.63
<u>InDir Available Phos</u>			<u>Spectrometric</u>			105	20.07	.29	009	20.03	.37	096	15.85	-.64
<u>ICP</u>			030	19.88	.71	177	20.08	.25	072	20.03	.31			
255	16.81 S	.00				Avg	20.05		131	20.01	.24			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 048.50 PCT			Meth: 050.30 PCT			Meth: 050.51 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT		
Water Soluble Phosph			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>ICP</u>			<u>AA (Oxalate)</u>			<u>ICP (Citrate)</u>			<u>Other</u>					
444	16.76	-.71	Avg	20.14		475	20.26	-1.08	360	20.68	.90	185	20.65	.83
			040	20.00	-.25	291	20.11	-1.16	042	20.52	.88	114	20.72	.83
			043	19.30	-1.22	296	20.12	-1.24	255	20.22	.65	042	20.52	.82
Meth: 048.XX PCT			351 18.94 -1.75			096 17.16 S -9.52			232 20.50 .64			007 20.69 .78		
Water Soluble Phosph			Meth: 050.31 PCT			393 16.39 S -11.70			247 20.55 .60			105 20.69 .77		
<u>ICP</u>			Soluble Potash			Meth: 050.60 PCT			131 20.44 .43			432 20.58 .74		
420	17.75	1.90	<u>AA (Citrate)</u>			Soluble Potash			137 20.25 .08			102 20.62 .68		
444	16.76	.52	254	19.07	1.20	<u>Flame (Oxalate)</u>			402 20.21 -.04			324 20.25 .61		
Avg	16.40		Avg	19.03		105	20.46	1.07	460 20.05 -.39			037 20.58 .61		
405	16.21	-.28	030	19.00	-.25	406	20.24	.59	476 20.02 -.47			232 20.50 .58		
474	16.01	-.57	472	17.90 S -5.75		169	20.20	.50	275 19.95 -.48			456 20.55 .54		
479	15.87	-.77	Meth: 050.50 PCT			Avg 19.96			307 19.91 -.61			234 20.49 .53		
096	15.85	-.79	Soluble Potash			200 19.50 -.99			072 19.83 -.74			136 20.55 .52		
Meth: 050.00 PCT			<u>ICP (Oxalate)</u>			309 19.40 -1.33			325 19.80 -.75			247 20.55 .52		
Soluble Potash			292 20.98 1.60			Meth: 050.61 PCT			481 19.80 -.87			475 20.26 .48		
<u>STPB Oxalate</u>			420 20.90 1.46			Soluble Potash			444 19.62 -1.06			470 20.52 .48		
397	21.04	1.20	324 20.25 .69			<u>Flame (Citrate)</u>			368 19.53 -1.22			105 20.46 .41		
009	21.01	1.15	Avg	20.02		029	20.76	1.49	482 19.50 -1.31			231 20.47 .40		
114	20.72	.44	444	19.99	-.06	041	20.80	1.27	330 19.25 -1.72			211 20.47 .39		
102	20.62	.33	157	20.00	-.17	105	20.69	.71	Meth: 050.XX PCT			131 20.27 .38		
090	20.60	.27	426	19.61	-.72	037	20.58	.49	<u>Soluble Potash</u>			131 20.44 .35		
Avg	20.53		055	19.52	-.84	456	20.55	.26	177 21.17 1.62			233 20.42 .35		
470	20.52	-.03	354	19.42	-1.02	Avg	20.50		027 21.03 1.50			035 20.32 .25		
211	20.47	-.14	422	19.55	-1.03	034	20.33	-.74	260 21.05 1.42			034 20.33 .19		
231	20.47	-.16	Meth: 050.51 PCT			035 20.32			397 21.04 1.39			073 20.32 .15		
233	20.42	-.35	Soluble Potash			095 20.26			009 21.01 1.36			377 20.30 .10		
049	20.19 R	-1.55	<u>ICP (Citrate)</u>			131 20.27			023 20.89 1.31			095 20.26 .03		
055	19.47	-2.49	478	20.95	1.23	Meth: 050.99 PCT			292 20.98 1.29			137 20.25 .01		
230	17.45 s	-7.17	389	20.85	.95	Soluble Potash			478 20.95 1.24			406 20.24 -.04		
Meth: 050.30 PCT			043 20.84 .91			<u>Other</u>			450 20.93 1.20			169 20.20 -.08		
Soluble Potash			432 20.58 .77			177 21.17 1.71			420 20.90 1.14			402 20.21 -.09		
<u>AA (Oxalate)</u>			007 20.69 .49			027 21.03 1.59			389 20.85 1.06			291 20.11 -.24		
023	20.89	1.21	Avg	20.52		260 21.05 1.51			043 20.84 1.04			296 20.12 -.37		
185	20.65	.82	377	20.30	-.63	450 20.93 1.29			029 20.76 1.03			460 20.05 -.43		
136	20.55	.59							041 20.80 1.00			444 19.99 -.45		
234	20.49	.57												
073	20.32	.27												

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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: 060.00 PCT			Meth: 101.XX PCT			Meth: 121.30 PCT			Meth: 121.30 PCT		
<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>		
040	20.00	-.47	<u>Vacuum Oven</u>			422	3.74 s	6.05	<u>ICP</u>			<u>ICP</u>		
157	20.00	-.47	479	0.68	-1.05	393	3.56 s	5.07	041	3.51 s	7.04	354	2.13 R	-1.13
476	20.02	-.52	Meth: 101.00 PCT			041	2.93	1.86	114	3.05 s	4.29	482	2.12	-1.13
275	19.95	-.54	<u>Acid Soluble Calcium</u>			049	2.76 R	1.21	117	2.97 s	3.82	247	1.94	-2.18
255	20.22	-.65	<u>AA</u>			474	2.81	1.13	475	2.65	1.98	102	1.93	-2.22
307	19.91	-.66	105 2.40 -.71			420	2.79	1.00	042	2.60	1.68	479	1.92	-2.30
072	19.83	-.80	Meth: 101.30 PCT			479	2.63	.51	422	2.60	1.66	Meth: 121.99 PCT		
325	19.80	-.80	<u>Acid Soluble Calcium</u>			096	2.69	.50	231	2.53	1.27	<u>Acid Soluble Magnesi</u>		
481	19.80	-.92	<u>ICP</u>			482	2.64	.44	393	2.47	.99	<u>Other</u>		
049	20.19 R	-1.00	422	3.74 s	6.15	090	2.61	.33	472	2.46	.89	137	2.33	.72
444	19.62	-1.12	393	3.56 s	5.13	035	2.63	.28	049	2.36 R	.76	Avg	2.31	
426	19.61	-1.14	041	2.93	1.78	389	2.64	.24	009	2.41 R	.73	460	2.28 X	-.99
368	19.53	-1.27	049	2.76 R	1.15	131	2.63	.16	450	2.42	.61	Meth: 121.XX PCT		
055	19.52	-1.27	474	2.81	1.00	009	2.60	.09	023	2.41	.57	<u>Acid Soluble Magnesi</u>		
200	19.50	-1.32	420	2.79	.87	Avg	2.60		037	2.40	.49	041	3.51 s	7.10
482	19.50	-1.36	479	2.63	.50	232	2.52	-.43	474	2.39	.46	114	3.05 s	4.30
055	19.47	-1.38	482	2.64	.39	354	2.54	-.51	420	2.39	.46	117	2.97 s	3.81
422	19.55	-1.41	096	2.69	.35	105	2.40	-1.03	426	2.36	.42	117	2.97 s	3.81
354	19.42	-1.46	389	2.64	.09	309	2.35	-1.30	432	2.38	.39	200	2.72 X	2.32
309	19.40	-1.58	Avg 2.63			Meth: 121.00 PCT			131	2.37	.34	475	2.65	1.93
043	19.30	-1.67	131	2.63	-.03	<u>Acid Soluble Magnesi</u>			096	2.37	.32	042	2.60	1.63
330	19.25	-1.77	009	2.60	-.16	<u>AA</u>			255	2.37	.31	422	2.60	1.61
254	19.07	-2.11	035	2.63	-.25	200	2.72 X	2.08	035	2.32	.15	169	2.56	1.40
030	19.00	-2.20	090	2.61	-.35	169	2.56	1.09	233	2.34	.14	231	2.53	1.22
351	18.94	-2.31	232	2.52	-.62	177	2.47	.52	095	2.34	.13	393	2.47	.93
472	17.90 s	-4.13	354	2.54	-.65	028	2.47	.47	027	2.33	.09	177	2.47	.87
230	17.45 s	-4.90	102	2.15	-2.65	Avg	2.39		Avg	2.31		028	2.47	.83
096	17.16 s	-5.41	Meth: 101.99 PCT			040	2.39	-.11	055	2.29	-.14	472	2.46	.83
393	16.39 s	-6.76	<u>Acid Soluble Calcium</u>			296	2.39	-.32	444	2.29	-.18	049	2.36 R	.74
Meth: 060.00 PCT			<u>Other</u>			105	2.35	-.46	157	2.27	-.28	009	2.41 R	.68
<u>Free Water</u>			309	2.35	.00	029	2.34	-.48	433	2.26	-.31	450	2.42	.53
<u>Vacuum Oven</u>			Meth: 121.00 PCT			481	2.27	-.81	368	2.25	-.37	023	2.41	.49
096	1.14 s	5.37	<u>Acid Soluble Calcium</u>			043	2.23	-1.09	324	2.25	-.40	296	2.39	.48
007	0.86	1.40	<u>Other</u>			351	2.17	-1.45	307	2.24	-.46	037	2.40	.42
456	0.78	.27	309 2.35 .00			Meth: 121.00 PCT			389	2.20	-.66	426	2.36	.38
Avg	0.75		Meth: 121.00 PCT			<u>Acid Soluble Calcium</u>			230	2.21	-.71	474	2.39	.38
474	0.71	-.60	309 2.35 .00			<u>AA</u>			232	2.19	-.72	420	2.39	.38
Meth: 121.00 PCT			309 2.35 .00			<u>AA</u>			291	2.14	-1.06	Meth: 121.00 PCT		
<u>Acid Soluble Calcium</u>			309 2.35 .00			<u>AA</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>		
041 3.51 s 7.04			309 2.35 .00			041 3.51 s 7.04			041 3.51 s 7.04			041 3.51 s 7.04		
114 3.05 s 4.29			309 2.35 .00			114 3.05 s 4.29			114 3.05 s 4.29			114 3.05 s 4.29		
117 2.97 s 3.82			309 2.35 .00			117 2.97 s 3.82			117 2.97 s 3.82			117 2.97 s 3.82		
475 2.65 1.98			309 2.35 .00			475 2.65 1.98			475 2.65 1.98			475 2.65 1.98		
042 2.60 1.68			309 2.35 .00			042 2.60 1.68			042 2.60 1.68			042 2.60 1.68		
422 2.60 1.66			309 2.35 .00			422 2.60 1.66			422 2.60 1.66			422 2.60 1.66		
231 2.53 1.27			309 2.35 .00			231 2.53 1.27			231 2.53 1.27			231 2.53 1.27		
393 2.47 .99			309 2.35 .00			393 2.47 .99			393 2.47 .99			393 2.47 .99		
472 2.46 .89			309 2.35 .00			472 2.46 .89			472 2.46 .89			472 2.46 .89		
049 2.36 R .76			309 2.35 .00			049 2.36 R .76			049 2.36 R .76			049 2.36 R .76		
009 2.41 R .73			309 2.35 .00			009 2.41 R .73			009 2.41 R .73			009 2.41 R .73		
450 2.42 .61			309 2.35 .00			450 2.42 .61			450 2.42 .61			450 2.42 .61		
023 2.41 .57			309 2.35 .00			023 2.41 .57			023 2.41 .57			023 2.41 .57		
037 2.40 .49			309 2.35 .00			037 2.40 .49			037 2.40 .49			037 2.40 .49		
474 2.39 .46			309 2.35 .00			474 2.39 .46			474 2.39 .46			474 2.39 .46		
420 2.39 .46			309 2.35 .00			420 2.39 .46			420 2.39 .46			420 2.39 .46		
426 2.36 .42			309 2.35 .00			426 2.36 .42			426 2.36 .42			426 2.36 .42		
432 2.38 .39			309 2.35 .00			432 2.38 .39			432 2.38 .39			432 2.38 .39		
131 2.37 .34			309 2.35 .00			131 2.37 .34			131 2.37 .34			131 2.37 .34		
096 2.37 .32			309 2.35 .00			096 2.37 .32			096 2.37 .32			096 2.37 .32		
255 2.37 .31			309 2.35 .00			255 2.37 .31			255 2.37 .31			255 2.37 .31		
035 2.32 .15			309 2.35 .00			035 2.32 .15			035 2.32 .15			035 2.32 .15		
233 2.34 .14			309 2.35 .00			233 2.34 .14			233 2.34 .14			233 2.34 .14		
095 2.34 .13			309 2.35 .00			095 2.34 .13			095 2.34 .13			095 2.34 .13		
027 2.33 .09			309 2.35 .00			027 2.33 .09			027 2.33 .09			027 2.33 .09		
Avg 2.31			309 2.35 .00			Avg 2.31			Avg 2.31			Avg 2.31		
055 2.29 -.14			309 2.35 .00			055 2.29 -.14			055 2.29 -.14			055 2.29 -.14		
444 2.29 -.18			309 2.35 .00			444 2.29 -.18			444 2.29 -.18			444 2.29 -.18		
157 2.27 -.28			309 2.35 .00			157 2.27 -.28			157 2.27 -.28			157 2.27 -.28		
433 2.26 -.31			309 2.35 .00			433 2.26 -.31			433 2.26 -.31			433 2.26 -.31		
368 2.25 -.37			309 2.35 .00			368 2.25 -.37			368 2.25 -.37			368 2.25 -.37		
324 2.25 -.40			309 2.35 .00			324 2.25 -.40			324 2.25 -.40			324 2.25 -.40		
307 2.24 -.46			309 2.35 .00			307 2.24 -.46			307 2.24 -.46			307 2.24 -.46		
389 2.20 -.66			309 2.35 .00			389 2.20 -.66			389 2.20 -.66			389 2.20 -.66		
230 2.21 -.71			309 2.35 .00			230 2.21 -.71			230 2.21 -.71			230 2.21 -.71		
232 2.19 -.72			309 2.35 .00			232 2.19 -.72			232 2.19 -.72			232 2.19 -.72		
291 2.14 -1.06			309 2.35 .00			291 2.14 -1.06			291 2.14 -1.06			291 2.14 -1.06		

* 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: 121.XX PCT			Meth: 131.00 PCT			Meth: 144.01 PCT			Meth: 144.99 PCT			Meth: 144.XX PCT		
<u>Acid Soluble Magnesi</u>			<u>Water Soluble Magnes</u>			<u>Sulfur</u>			<u>Sulfur</u>			<u>Sulfur</u>		
040	2.39	.36	AA			Gravimetric			Other			105	7.55	.55
105	2.35	.33	Avg	1.86		397	7.53	.27	009	7.36	.23	037	7.55	.54
432	2.38	.32	029	1.79	-.82	233	7.52	.25	389	7.35	.18	296	7.51	.51
029	2.34	.29	Meth: 131.30 PCT			040	7.50	.15	247	7.33	.11	324	7.52	.51
131	2.37	.26	<u>Water Soluble Magnes</u>			102	7.48	.07	Avg	7.32		397	7.53	.47
096	2.37	.24	<u>ICP</u>			Avg	7.47		027	7.26	-.22	233	7.52	.45
255	2.37	.23	475	2.18	1.14	114	7.31	-.75	137	7.20	-.38	450	7.41	.41
233	2.34	.06	090	2.18	1.12	028	7.26	-1.01	351	7.20	-.39	040	7.50	.38
095	2.34	.05	Avg	1.93		073	7.15	-1.63	023	7.21	-.41	102	7.48	.30
137	2.33	.02	230	1.90	-.21	230	6.96	-2.40	426	7.21	-.45	049	7.41	.25
027	2.33	.01	230	1.90	-.21	200	5.91 s	-7.27	444	7.16	-.51	177	7.44	.19
Avg	2.33		444	1.89	-.21	Meth: 144.02 PCT			368	7.15	-.53	Avg	7.39	
035	2.32	-.17	027	1.85	-.37	<u>Sulfur</u>			232	7.14	-.57	389	7.35	-.20
055	2.29	-.23	432	1.58	-1.64	<u>Gravimetric</u>			482	7.10	-.77	009	7.36	-.23
444	2.29	-.25	Meth: 131.XX PCT			292	7.94	-.71	422	6.95	-1.17	247	7.33	-.23
460	2.28 X	-.29	<u>Water Soluble Magnes</u>			Meth: 144.70 PCT			393	6.92	-1.29	114	7.31	-.27
481	2.27	-.36	475	2.18	1.38	<u>Sulfur</u>			131	6.73	-1.88	472	7.32	-.32
157	2.27	-.36	090	2.18	1.35	<u>Spectrometric</u>			307	6.73 R	-1.93	255	7.34	-.33
433	2.26	-.40	296	1.93	.23	474			291	6.55	-2.45	027	7.26	-.44
368	2.25	-.46	Avg	1.91		9.98 S .00			354	6.22 s	-3.54	028	7.26	-.45
324	2.25	-.49	444	1.89	-.18	Meth: 144.99 PCT			035	5.90 s	-4.49	137	7.20	-.62
307	2.24	-.55	230	1.90	-.19	<u>Sulfur</u>			Meth: 144.XX PCT			351	7.20	-.62
043	2.23	-.61	027	1.85	-.34	117			<u>Sulfur</u>			023	7.21	-.62
389	2.20	-.76	029	1.79	-.64	7.98			474			426	7.21	-.66
230	2.21	-.80	432	1.58	-1.77	2.08			9.98 s			444	7.16	-.75
232	2.19	-.82	Meth: 144.01 PCT			475			1.98			368	7.15	-.77
351	2.17	-.94	<u>Sulfur</u>			7.81			1.83			232	7.14	-.81
291	2.14	-1.17	<u>Gravimetric</u>			7.77			1.83			073	7.15	-.92
354	2.13	-1.23	029	7.77	1.48	7.77			1.41			482	7.10	-1.02
482	2.12	-1.24	043	7.67	1.11	7.77			1.35			230	6.96	-1.44
247	1.94	-2.31	055	7.64	.79	7.63			1.32			422	6.95	-1.45
102	1.93	-2.35	095	7.59	.71	7.60			1.03			393	6.92	-1.57
479	1.92	-2.43	481	7.57	.48	7.57			.99			131	6.73	-2.20
Meth: 131.00 PCT			095	7.59	.71	7.55			.84			307	6.73 R	-2.24
<u>Water Soluble Magnes</u>			481	7.57	.48	7.41			.81			291	6.55	-2.80
<u>AA</u>			296	7.51	.46	7.44			.75			354	6.22 s	-3.95
296	1.93	.91	324	7.52	.41	7.41			.74			200	5.91 s	-4.91
			105	7.55	.39	7.34			.61			035	5.90 s	-4.95
						472			.60					

* 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: 151.00 PPM			Meth: 165.00 PCT			Meth: 165.99 PCT			Meth: 165.XX PCT			Meth: 181.30 PPM		
Arsenic			Acid Soluble Boron			Acid Soluble Boron			Acid Soluble Boron			Cadmium		
<u>Atomic Absorption</u>			<u>Spectrometric</u>			<u>Other</u>			ICP			<u>ICP</u>		
136	3.65	-.71	037	0.312	1.16	230	0.266	-.61	090	0.268	-.60	009	27.87	.36
			023	0.302	.56	324	0.262	-.67	296	0.268	-.64	037	27.50	.15
			105	0.299	.36	307	0.270 R	-.72	230	0.266	-.72	102	27.48	.12
Meth: 151.30 PPM			055 0.295 .15			472 0.254 -.89			307 0.270 R -.82			Avg 27.32		
Arsenic			114 0.250 -1.01			043 0.205 -2.32			028 0.258 -.91			482 26.95 -.26		
<u>ICP</u>			029 0.291 -.29			043 0.205 -2.32			472 0.254 -1.02			296 26.80 -.43		
474	7.90	1.58	397 0.293 -.56			354 0.197 -2.57			114 0.250 -1.15			450 25.75 -1.09		
009	7.52 R	1.46	028 0.258 -2.07			Meth: 165.XX PCT			043 0.205 -2.58			035 25.70 -1.28		
247	7.30	1.35	481 0.180 S -6.62			<u>Acid Soluble Boron</u>			354 0.197 -2.85			232 24.38 -1.93		
450	4.00	.08	393 0.094 S -11.69			117 0.495 s 6.62			481 0.180 s -3.37			393 8.53 s -12.33		
230	3.81	.01	Meth: 165.99 PCT			368 0.328 R 1.69			393 0.094 s -6.10			247 3.20 s -15.82		
Avg	3.79		Acid Soluble Boron			360 0.338 1.64			Meth: 171.99 PCT			Meth: 181.99 PPM		
102	3.14	-.25	<u>Other</u>			444 0.330 1.42			Water Soluble Boron			Cadmium		
368	2.60	-.50	117 0.495 s 6.13			432 0.325 1.24			<u>Other</u>			<u>Other</u>		
393	1.60	-.85	368 0.328 R 1.59			231 0.320 1.07			200 0.280 X .66			231 25.80 -.71		
296	0.00	-1.46	360 0.338 1.56			037 0.312 .83			027 0.280 .49			Meth: 181.XX PPM		
Meth: 151.99 PPM			444 0.330 1.36			475 0.310 .82			444 0.280 .49			<u>Cadmium</u>		
Arsenic			432 0.325 1.19			433 0.310 .75			Avg 0.269			368 28.50 R 2.13		
<u>Other</u>			231 0.320 1.03			389 0.310 .75			432 0.235 -1.61			481 30.95 2.11		
231	3.81	.71	475 0.310 .80			426 0.306 .64			Meth: 181.00 PPM			096 29.50 1.23		
Meth: 151.XX PPM			433 0.310 .74			422 0.305 .58			Cadmium			233 29.35 1.11		
Arsenic			389 0.310 .74			042 0.300 .44			<u>Atomic Absorption</u>			049 28.11 .83		
474	7.90	1.67	426 0.306 .64			137 0.300 .44			481 30.95 .90			474 28.30 .49		
009	7.52 R	1.53	422 0.305 .58			105 0.299 .40			Avg 29.23			136 27.50 .29		
247	7.30	1.42	042 0.300 .45			397 0.293 .36			136 27.50 -.83			009 27.87 .24		
450	4.00	.04	137 0.300 .45			040 0.289 .36			Meth: 181.30 PPM			037 27.50 .08		
Avg	3.91		040 0.289 .35			055 0.295 .28			Cadmium			102 27.48 .06		
231	3.81	-.04	009 0.289 .27			009 0.289 .27			<u>ICP</u>			Avg 27.46		
230	3.81	-.05	255 0.287 .24			255 0.287 .25			368 28.50 R 2.42			482 26.95 -.31		
136	3.65	-.11	482 0.290 .16			029 0.291 .20			096 29.50 1.47			230 27.45 -.38		
102	3.14	-.32	Avg 0.285			482 0.290 .12			233 29.35 1.34			296 26.80 -.45		
368	2.60 R	-.59	291 0.280 -.32			Avg 0.286			049 28.11 .98			231 25.80 -.99		
393	1.60	-.97	049 0.271 -.40			291 0.280 -.37			474 28.30 .65			450 25.75 -1.05		
296	0.00	-1.63	232 0.270 -.43			049 0.271 -.49			230 27.45 .44			035 25.70 -1.21		
			090 0.268 -.50			232 0.270 -.52						232 24.38 -1.80		
			296 0.268 -.54											

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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>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
<u>Meth: 181.XX PPM</u>			<u>Meth: 191.XX PPM</u>			<u>Meth: 202.XX PPM</u>			<u>Meth: 221.30 PCT</u>			<u>Meth: 221.XX PCT</u>		
<u>Cadmium</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>		
393	8.53 s	-11.05	450	113.00	.98	422	6.34	2.12	<u>ICP</u>			231	0.0035	.10
247	3.20 s	-14.16	037	112.86	.96	009	4.88	.83	402	0.0037	.26	360	0.0035	.07
Meth: 190.00 PCT			230	103.50	.25	368	4.45 R	.55	096	0.0036	.21	233	0.0034	.05
<u>Water Soluble Chlori</u>			102	103.14	.07	450	4.50	.50	035	0.0035	.15	444	0.0034	.03
<u>Titrimetric</u>			Avg	102.68		296	4.19	.24	360	0.0035	.09	Avg	0.0034	
105	12.11	.88	231	101.64	-.16	035	4.16	.21	233	0.0034	.07	433	0.0033	-.11
Avg	11.65		482	99.30	-.32	Avg	3.99	.06	Avg	0.0034		354	0.0025	-1.06
422	11.19	-.86	035	102.65	-.50	102	3.90	-.04	433	0.0033	-.08	393	0.0011	-2.42
Meth: 191.30 PPM			232	95.70	-.66	230	3.85	-.20	354	0.0025	-.90	041	0.0010	-2.48
<u>Chromium</u>			474	85.00	-1.67	231	3.67	-.24	393	0.0011	-2.08	105	0.0003 s	-3.21
<u>ICP</u>			444	84.72	-1.69	232	3.31	-.55	041	0.0010	-2.13	Meth: 241.00 PCT		
368	114.95 R	1.55	393	35.16 s	-6.36	474	3.00	-.82	<u>Acid Soluble Iron</u>			<u>Atomic Absorption</u>		
009	116.15	1.28	Meth: 202.00 PPM			393	1.41	-2.21	<u>Other</u>			481	4.60 s	126.81
096	114.50	1.08	<u>Acid Soluble Cobalt</u>			Meth: 221.00 PCT			231	0.0035	.82	460	0.66	1.82
450	113.00	.93	<u>AA</u>			<u>Acid Soluble Copper</u>			Avg	0.0035		296	0.63	.82
037	112.86	.91	474	3.00	.00	<u>Atomic Absorption</u>			444	0.0034	-.91	351	0.63	.77
230	103.50	.23	Meth: 202.30 PPM			481	0.0060 S	5.11	Meth: 221.XX PCT			028	0.61	.43
102	103.14	.06	<u>Acid Soluble Cobalt</u>			296	0.0044	1.19	<u>Acid Soluble Copper</u>			105	0.61	.21
Avg	102.77		<u>ICP</u>			043	0.0040	.25	Avg			474	0.61	.14
482	99.30	-.31	422	6.34	2.36	Avg	0.0040		049	0.0062 s	3.80	Avg	0.60	
035	102.65	-.48	009	4.88	.63	474	0.0035	-1.01	422	0.0070 s	3.71	397	0.59	-.45
232	95.70	-.64	368	4.45 R	.43	105	0.0003 S	-8.21	481	0.0060 s	2.87	043	0.59	-.59
474	85.00	-1.60	450	4.50	.18	Meth: 221.30 PCT			368	0.0050	1.65	479	0.59	-.59
444	84.72	-1.63	Avg	4.34		<u>Acid Soluble Copper</u>			230	0.0048 R	1.63	040	0.59	-.74
393	35.16 s	-6.09	296	4.19	-.23	<u>ICP</u>			255	0.0046 R	1.43	177	0.54	-2.06
Meth: 191.99 PPM			035	4.16	-.23	049	0.0062 s	3.34	444	0.0040 R	1.20	169	0.39 s	-6.93
<u>Chromium</u>			482	3.99	-.43	422	0.0070 S	3.27	296	0.0044	1.04	Meth: 241.30 PCT		
<u>Other</u>			102	3.90	-.53	368	0.0050	1.47	043	0.0040	.62	<u>Acid Soluble Iron</u>		
231	101.64	.71	230	3.85	-.64	230	0.0048 R	1.45	009	0.0040	.61	<u>ICP</u>		
Meth: 191.XX PPM			232	3.31	-1.23	255	0.0046	1.28	095	0.0040	.58	114	0.71 s	3.90
<u>Chromium</u>			393	1.41 s	-3.47	444	0.0040 R	1.06	450	0.0038	.42	368	0.64 R	2.01
368	114.95 R	1.63	Meth: 202.99 PPM			009	0.0040	.57	232	0.0037	.32	475	0.66	1.69
009	116.15	1.34	<u>Acid Soluble Cobalt</u>			095	0.0040	.54	402	0.0037	.26	049	0.65	1.44
096	114.50	1.14	<u>Other</u>			450	0.0038	.40	096	0.0036	.22	055	0.65	1.31
Meth: 191.XX PPM			231	3.67	.71	232	0.0037	.31	035	0.0035	.16	231	0.64	1.18
<u>Chromium</u>									474	0.0035	.10			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.30 PCT Acid Soluble Iron			Meth: 241.99 PCT Acid Soluble Iron			Meth: 241.XX PCT Acid Soluble Iron			Meth: 251.30 PPM Lead			Meth: 261.00 PCT Acid Soluble Manganese		
<u>ICP</u>			<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>AA</u>		
035	0.63	1.09	042	0.47 S	.00	420	0.60	-.07	230	3.95	.64	029	0.015	.46
117	0.63	1.01	137	0.66	.00	402	0.59	-.09	368	3.15 R	.33	351	0.015	.42
432	0.63	.92	Avg	0.66		450	0.60	-.21	Avg	3.07		105	0.014	.22
324	0.62	.71	Meth: 241.XX PCT			397	0.59	-.31	474	3.00	-.05	Avg	0.014	
426	0.62	.69	<u>Acid Soluble Iron</u>			043	0.59	-.34	102	2.85	-.17	481	0.010	-1.53
037	0.62	.60	481	4.60 s	104.02	422	0.59	-.34	444	2.04	-.75	397	0.009	-1.97
157	0.60	.56	114	0.71 s	3.92	479	0.59	-.34	393	1.58	-1.08	Meth: 261.11 PCT		
433	0.62	.56	368	0.64 R	2.01	247	0.58	-.44	482	1.47	-1.18	Acid Soluble Manganese		
096	0.62	.56	460	0.66	1.64	040	0.59	-.50	Meth: 251.99 PPM			<u>AA</u>		
255	0.61	.54	475	0.66	1.64	095	0.58	-.54	Lead			040 0.014 .71		
023	0.61	.49	137	0.66	1.64	073	0.58	-.54	<u>Other</u>			Meth: 261.30 PCT		
472	0.61	.42	049	0.65	1.40	157	0.60	-.57	231 3.53 -.71			Acid Soluble Manganese		
360	0.61	.35	055	0.65	1.26	230	0.57	-.69	Meth: 251.XX PPM			<u>ICP</u>		
233	0.61	.34	231	0.64	1.12	090	0.56	-.95	<u>Lead</u>			023 0.535 s 206.99		
450	0.60	.21	035	0.63	1.04	307	0.56	-.99	136 17.50 s 10.66			368 0.169 s 61.41		
009	0.60	.19	117	0.63	.94	444	0.56	-1.10	296 5.65 1.78			426 0.112 s 53.82		
131	0.60	.16	432	0.63	.86	041	0.54	-1.48	481 4.75 1.10			432 0.050 s 14.59		
482	0.60	.16	296	0.63	.82	177	0.54	-1.54	450 4.00 .54			231 0.020 2.10		
389	0.60	.13	351	0.63	.78	354	0.54	-1.66	230 3.95 .50			041 0.020 2.10		
420	0.60	.06	324	0.62	.64	102	0.52	-1.97	231 3.53 .19			472 0.019 R 1.62		
Avg	0.59		426	0.62	.63	232	0.51	-2.31	Avg 3.28			422 0.018 1.36		
402	0.59	-.01	037	0.62	.53	027	0.49	-2.83	474 3.00 -.21			009 0.016 .70		
422	0.59	-.25	096	0.62	.49	042	0.47 s	-3.43	102 2.85 -.33			055 0.016 .51		
247	0.58	-.35	433	0.62	.49	169	0.39 s	-5.52	368 3.15 R -.35			433 0.016 .33		
095	0.58	-.44	028	0.61	.48	Meth: 251.00 PPM			444 2.04 -.93			233 0.015 .32		
073	0.58	-.45	255	0.61	.47	Lead			393 1.58 -1.28			117 0.015 .31		
230	0.57	-.61	023	0.61	.42	<u>Atomic Absorption</u>			482 1.47 -1.38			096 0.015 .20		
090	0.56	-.85	472	0.61	.37	136 17.50 S 82.02			Meth: 261.00 PCT			402 0.015 .11		
307	0.56	-.89	105	0.61	.32	481 4.75 .71			Acid Soluble Manganese			102 0.015 .05		
444	0.56	-.99	360	0.61	.27	Avg 4.75			<u>AA</u>			360 0.015 -.09		
041	0.54	-1.36	233	0.61	.26	Meth: 251.30 PPM			028 0.016 .80			035 0.014 -.18		
354	0.54	-1.54	474	0.61	.24	Lead			296 0.016 .69			307 0.015 -.22		
102	0.52	-1.85	009	0.60	.12	<u>ICP</u>			460 0.016 .69			049 0.015 -.22		
232	0.51	-2.18	131	0.60	.09	296 5.65 1.87			043 0.015 .50			095 0.014 -.29		
027	0.49	-2.68	482	0.60	.08	450 4.00 .68								
			Avg	0.60										

* 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: 261.30 PCT			Meth: 261.XX PCT			Meth: 271.30 PCT			Meth: 289.30 PPM			Meth: 289.XX PPM		
<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Water Soluble Manganese</u>			<u>Molybdenum</u>			<u>Molybdenum</u>		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Avg</u>		
131	0.014	-.43	324	0.017	.70	444	0.005	1.05	049	12.14 s	9.62	231	6.23	-.14
354	0.014	-.49	009	0.016	.65	Avg	0.004		247	11.35 S	7.93	102	6.22	-.14
444	0.014	-.49	055	0.016	.46	230	0.004	-.63	255	10.06 S	6.66	422	6.16	-.22
232	0.013	-.77	028	0.016	.42	Meth: 271.99 PCT			368	6.85 R	1.44	296	6.00	-.40
027	0.011	-1.48	255	0.015	.39	<u>Water Soluble Manganese</u>			035	6.93 R	1.41	433	5.96	-.46
114	0.010	-1.88	460	0.016	.33	<u>Other</u>			450	7.00	1.28	037	5.29	-1.42
450	0.010	-1.88	296	0.016	.33	027 0.012 .00			230	6.97	1.24	474	4.95	-1.86
Meth: 261.31 PCT			Meth: 271.XX PCT			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.00 PPM		
<u>Acid Soluble Manganese</u>			<u>Water Soluble Manganese</u>			<u>Mercury</u>			<u>Molybdenum</u>			<u>Nickel</u>		
<u>ICP</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>			<u>Other</u>			<u>Atomic Absorption</u>		
324	0.017	.86	027	0.012	1.28	230 0.02 .71			296	6.00	-.25	136	30.50	.71
Avg	0.016		Avg	0.007		Meth: 281.30 PPM			433	5.96	-.32	Meth: 291.30 PPM		
230	0.015	-.88	444	0.005	-.57	<u>Mercury</u>			037	5.29	-1.38	<u>Nickel</u>		
Meth: 261.99 PCT			Meth: 281.00 PPM			Meth: 281.99 PPM			Meth: 289.XX PPM			<u>ICP</u>		
<u>Acid Soluble Manganese</u>			<u>Mercury</u>			<u>Mercury</u>			<u>Molybdenum</u>			444 23.73 1.46		
<u>Other</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>			<u>Other</u>			368 23.10 R 1.42		
042	0.020	.82	035	0.014	-.19	230 0.01 -.71			028	7.61	.86	009	22.56	1.14
137	0.020	.82	049	0.015	-.22	Meth: 281.30 PPM			Avg	6.92		450	22.00	.92
255	0.015 R	.16	307	0.015	-.22	<u>Mercury</u>			231	6.23	-.87	233	22.05	.88
Avg	0.015		230	0.015	-.23	<u>ICP</u>			Meth: 289.XX PPM			049	21.06	.58
474	0.013	-.19	095	0.014	-.29	393 0.01 -.71			<u>Molybdenum</u>			035	20.05	.34
393	0.005	-1.45	105	0.014	-.41	Meth: 281.99 PPM			<u>Other</u>			037	20.47	.31
Meth: 261.XX PCT			Meth: 281.30 PPM			Meth: 281.99 PPM			Meth: 289.XX PPM			230	20.45	.31
<u>Acid Soluble Manganese</u>			<u>Mercury</u>			<u>Mercury</u>			<u>Molybdenum</u>			102	19.77	.07
023	0.535 s	197.53	131	0.014	-.43	009 0.03 .00			049 12.14 s 8.56			Avg	19.57	
368	0.169 s	58.59	444	0.014	-.48	Meth: 281.XX PPM			247 11.35 s 7.02			232	17.78	-.63
426	0.112 s	51.35	354	0.014	-.48	<u>Mercury</u>			255 10.06 s 5.89			482	17.65	-.70
432	0.050 s	13.90	040	0.014	-.52	<u>Other</u>			028 7.61 1.83			296	17.45	-.75
231	0.020	1.98	474	0.013	-.54	009 0.03 1.02			368 6.85 R 1.19			247	15.00	-1.60
041	0.020	1.98	232	0.013	-.75	230 0.02 .12			035 6.93 R 1.14			474	14.00	-1.95
042	0.020	1.98	027	0.011	-1.43	Avg 0.02			450 7.00 .98			393	5.57 s	-4.90
137	0.020	1.98	114	0.010	-1.81	393 0.01 -1.20			230 6.97 .95					
472	0.019 R	1.52	481	0.010	-1.81				232 6.67 .54					
422	0.018	1.28	450	0.010	-1.81				009 6.43 .19					

* 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: 291.99 PPM			Meth: 301.XX PPM			Meth: 321.00 PCT			Meth: 321.30 PCT			Meth: 321.XX PCT		
<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
<u>Other</u>			<u>Atomic Absorption</u>			<u>ICP</u>								
231	15.45	.71	231	1.00	1.58	397	0.589	1.70	037	0.549	.29	368	0.610 s	3.43
			Avg	0.32		105	0.564	1.08	450	0.549	.27	231	0.620 R	2.67
			296	0.24	-.19	177	0.557	.78	389	0.545	.19	035	0.599	1.76
Meth: 291.XX PPM			393			0.05			472			0.598		
<u>Nickel</u>			450			0.00			028			0.554		
136	30.50	2.65	Meth: 311.30 PCT			371			0.550			027		
444	23.73	.94	<u>Sodium</u>			296			0.547			Avg		
368	23.10 R	.93	<u>Flame Photometric</u>			040			0.542			402		
009	22.56	.73	105			0.51			460			0.535		
450	22.00	.56	105			0.51			Avg			426		
233	22.05	.53	Meth: 311.99 PCT			200			0.515 X			233		
049	21.06	.33	<u>Sodium</u>			029			0.522			131		
035	20.05	.21	<u>Other</u>			481			0.495			482		
230	20.45	.12	422			0.65			351			479		
037	20.47	.12	474			0.61			169			230		
Avg	20.00		035			0.54			Meth: 321.30 PCT			420		
102	19.77	-.06	Avg			0.53			<u>Acid Soluble Zinc</u>			354		
232	17.78	-.56	307			0.53			<u>ICP</u>			307		
482	17.65	-.61	102			0.51			247			102		
296	17.45	-.64	009			0.51			432			422		
231	15.45	-1.15	232			0.49			368			232		
247	15.00	-1.26	482			0.45			035			090		
474	14.00	-1.51	Meth: 311.XX PCT			472			0.599			023		
393	5.57 s	-3.64	<u>Sodium</u>			114			0.598			Meth: 321.99 PCT		
Meth: 301.30 PPM			422			0.65			049			<u>Acid Soluble Zinc</u>		
<u>Selenium</u>			474			0.61			292			<u>Other</u>		
<u>ICP</u>			035			0.54			475			231		
393	0.05	.90	Avg			0.53			231			137		
Avg	0.03		307			0.53			009			042		
450	0.00	-.83	105			0.51			055			Avg		
Meth: 301.99 PPM			102			0.51			117			474		
<u>Selenium</u>			009			0.51			324			0.562		
<u>Other</u>			232			0.49			157			Meth: 321.XX PCT		
231	1.00	.87	482			0.45			360			<u>Acid Soluble Zinc</u>		
Avg	0.62		041			0.545			255			247		
296	0.24	-.86	255			0.551			432			432		

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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>		
131	0.528	-.35
479	0.525	-.44
482	0.535	-.45
291	0.535	-.45
230	0.519	-.68
200	0.515 X	-.82
029	0.522	-.82
420	0.507	-.95
354	0.508	-1.07
307	0.505	-1.07
102	0.498	-1.24
481	0.495	-1.27
043	0.485	-1.56
422	0.485	-1.56
232	0.481	-1.66
351	0.480	-1.71
169	0.475	-1.84
090	0.462	-2.23
023	0.015 s	-14.85

Meth: 325.30 PCT

<u>Water Soluble Zinc</u>		
<u>ICP</u>		
393	0.555	.87
Avg	0.295	
479	0.035	-.87

Meth: 325.99 PCT

<u>Water Soluble Zinc</u>		
<u>Other</u>		
450	0.549	.71

Meth: 325.XX PCT

<u>Water Soluble Zinc</u>		
393	0.555	.66
450	0.549	.63
Avg	0.380	
479	0.035	-1.29

* 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	3	0.00	0.79	0.65	060.00	5	1.01	2.44	0.83
001.99	6	1.43	3.64	0.18	060.XX	5	1.01	2.44	0.83
001.XX	9	1.13	3.50	0.31	101.30	17	0.70	2.07	0.36
002.99	2	0.00	0.00	0.87	101.XX	19	0.63	1.97	0.32
002.XX	2	0.00	0.00	0.87	121.00	11	0.00	1.00	0.20
009.10	4	0.00	1.08	0.09	121.30	41	0.36	1.67	0.24
009.XX	5	0.00	1.06	0.08	121.99	2	0.00	1.02	0.48
010.11	9	0.00	1.02	0.11	121.XX	54	0.29	1.54	0.23
010.12	3	0.00	1.09	0.21	131.00	2	0.00	1.13	0.33
010.60	54	0.10	1.28	0.27	131.30	6	0.00	1.03	0.20
010.99	9	0.00	1.02	0.11	131.XX	8	0.00	1.01	0.21
010.XX	73	0.13	1.16	0.32	144.01	17	- 0.43	1.99	0.31
020.10	5	0.00	0.76	0.66	144.99	32	- 0.31	1.39	0.24
020.20	16	0.00	1.00	0.15	144.XX	51	- 0.14	1.92	0.24
020.40	5	- 0.26	1.10	0.39	151.30	9	0.16	1.08	0.11
020.50	16	- 0.34	1.67	0.25	151.XX	11	0.09	1.05	0.11
020.99	3	0.00	1.11	0.10	165.00	9	- 2.035	4.320	0.229
020.XX	43	- 0.13	1.39	0.21	165.99	29	0.240	1.493	0.265
030.20	2	0.00	1.15	0.29	165.XX	38	- 0.054	1.844	0.259
030.XX	7	0.00	0.96	0.38	171.99	4	0.000	0.980	0.393
040.99	3	0.00	1.04	0.34	171.XX	4	0.000	0.980	0.393
040.XX	7	- 4.45	11.81	0.81	181.00	2	0.00	1.12	0.35
041.10	11	- 0.28	1.33	0.32	181.30	16	- 1.71	4.95	0.66
041.40	5	- 1.23	2.79	1.25	181.XX	19	- 1.30	4.12	0.56
041.50	12	- 0.44	2.23	0.40	190.00	2	0.00	1.19	0.20
041.60	14	- 0.05	0.94	0.54	190.XX	2	0.00	1.19	0.20
041.99	3	- 11.14	46.53	12.37	191.30	13	- 0.38	1.97	0.36
041.XX	37	- 0.54	2.36	0.97	191.XX	14	- 0.37	1.98	0.37
048.20	5	0.00	1.06	0.09	202.30	11	- 0.30	1.39	0.16
048.XX	6	0.00	1.04	0.11	202.XX	13	0.04	0.98	0.11
050.00	12	- 0.66	2.25	0.42	221.00	5	- 0.717	4.6724	1.1084
050.30	8	0.00	0.99	0.27	221.30	19	0.4015	1.2878	0.5903
050.31	3	- 1.91	3.31	0.75	221.99	2	0.0000	1.1604	0.2770
050.50	9	0.00	0.98	0.31	221.XX	25	0.3605	1.5519	0.6180
050.51	11	- 1.93	4.40	0.37	241.00	13	9.22	35.39	0.31
050.60	5	0.00	1.00	0.31	241.30	40	0.10	1.08	0.52
050.61	9	0.00	0.85	0.55	241.99	2	0.00	0.00	0.00
050.99	23	0.00	0.95	0.33	241.XX	55	1.80	14.10	0.47
050.XX	75	- 0.26	1.53	0.35	251.00	2	40.98	57.95	2.33

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
251.30	9	0.01	0.97	0.13					
251.XX	12	0.88	3.22	0.16					
261.00	9	0.000	1.010	0.193					
261.30	28	11.515	40.640	7.184					
261.31	2	0.000	1.040	0.458					
261.99	5	0.012	0.936	0.068					
261.XX	45	6.753	30.883	5.409					
271.30	2	0.000	0.863	0.614					
271.XX	3	0.000	1.115	0.072					
281.XX	3	0.000	1.082	0.231					
289.30	16	1.24	3.64	1.12					
289.99	2	0.00	1.22	0.08					
289.XX	18	0.94	3.12	0.96					
291.30	16	- 0.23	1.58	0.26					
291.XX	18	- 0.16	1.30	0.18					
301.30	2	0.00	1.18	0.24					
301.99	2	0.00	1.22	0.11					
301.XX	4	0.00	1.08	0.08					
311.99	8	0.00	1.03	0.12					
311.XX	9	0.00	1.02	0.13					
321.00	14	0.000	0.978	0.275					
321.30	40	0.071	3.280	0.603					
321.99	4	0.843	1.913	1.985					
321.XX	57	0.063	2.726	0.534					
325.30	2	0.000	1.225	0.017					
325.XX	2	0.645	0.017	0.020					