

- Pass 1 Results for 78 Labs - - Pass 2 Results for 78 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation .	920.03	001.10	7	13.48	0.24	0.11	7	13.48	0.24	0.11
Ammoniacal Nitrogen, Other		001.99	13	13.54	0.26	0.16	12	13.54	0.24	0.11
Method Group 001.XX PCT			20	13.52	0.25	0.14	18	13.51	0.23	0.08
Nitrate Nitrogen, Jones Modified	930.02	002.20	1	1.04	0.02	0.03	1	1.04	0.02	0.03
Nitrate Nitrogen, Other		002.99	7	0.59	0.14	0.04	7	0.59	0.14	0.04
Method Group 002.XX PCT			8	0.65	0.20	0.04	8	0.65	0.20	0.04
Ammon & Nitrate N, Devarda	892.01	009.10	4	14.11	0.09	0.04	4	14.11	0.09	0.04
Ammon & Nitrate N, Other		009.99	1	14.18	0.23	0.33	1	14.18	0.23	0.33
Method Group 009.XX PCT			5	14.12	0.11	0.10	4	14.11	0.09	0.04
Total Nitrogen, Modified Comprehensive	978.02	010.11	7	14.02	0.18	0.08	7	14.02	0.18	0.08
Total Nitrogen, Salicylic	955.04D	010.12	5	14.09	0.10	0.04	5	14.09	0.10	0.04
Total Nitrogen, Combustion		010.60	53	14.18	0.19	0.09	49	14.19	0.18	0.07
Total Nitrogen, Other		010.99	3	14.11	0.14	0.04	3	14.11	0.14	0.04
Method Group 010.XX PCT			68	14.15	0.19	0.08	64	14.16	0.18	0.06
Total Phosphate, Grav Quimociac	962.02	020.10	5	4.16	0.11	0.05	5	4.16	0.11	0.05
Total Phosphate, Spectrometric	958.01	020.20	18	4.16	0.12	0.07	17	4.17	0.12	0.06
Total Phosphate, Automated	978.01	020.40	7	4.19	0.10	0.06	6	4.19	0.10	0.03
Total Phosphate, ICP		020.50	11	4.21	0.13	0.07	11	4.21	0.13	0.07
Total Phosphate, Other		020.99	2	4.02	0.04	0.02	2	4.02	0.04	0.02
Method Group 020.XX PCT			43	4.17	0.12	0.07	39	4.18	0.12	0.05
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Insoluble Phosphate, Spectrometric	963.03C	030.20	2	0.08	0.06	0.01	2	0.08	0.06	0.01
Insoluble Phosphate, Automated	978.01	030.40	2	0.06	0.03	0.01	2	0.06	0.03	0.01
Method Group 030.XX PCT			5	0.06	0.05	0.01	4	0.04	0.03	0.00
InDir Available Phosphate, Grav Quim ..	960.02	040.10	2	4.04	0.10	0.00	2	4.04	0.10	0.00
InDir Available Phosphate, Spectrometri	960.02	040.20	2	3.71	0.24	0.18	2	3.71	0.24	0.18
InDir Available Phosphate, Automated ..	960.02	040.40	2	4.05	0.13	0.01	2	4.05	0.13	0.01
InDir Available Phosphate, ICP		040.50	1	4.20	0.01	0.02	1	4.20	0.01	0.02
Method Group 040.XX PCT			7	3.97	0.23	0.06	6	3.98	0.24	0.01
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	9	4.17	0.10	0.04	9	4.17	0.10	0.04
Dir Available Phosphate, Spectrometric	960.03D	041.20	2	4.09	0.18	0.07	2	4.09	0.18	0.07
Dir Available Phosphate, Automated	978.01	041.40	3	4.08	0.12	0.01	3	4.08	0.12	0.01
Dir Available Phosphate, ICP		041.50	10	4.13	0.07	0.03	10	4.13	0.07	0.03
Dir Available Phosphate, EDTA Extract .	993.01	041.60	9	4.17	0.10	0.05	9	4.17	0.10	0.05
Dir Available Phosphate, Other		041.99	2	4.19	0.07	0.09	2	4.19	0.07	0.09
Method Group 041.XX PCT			35	4.15	0.10	0.04	34	4.15	0.10	0.04
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	3.53	0.15	0.01	2	3.53	0.15	0.01
Water Soluble Phosphate, ICP		048.50	1	3.49	0.02	0.02	1	3.49	0.02	0.02
Method Group 048.XX PCT			3	3.52	0.12	0.02	3	3.52	0.12	0.02

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Soluble Potash, STPB Oxalate	958.02	050.00	15	14.39	0.30	0.11	14	14.35	0.28	0.10
Soluble Potash, STPB Citrate	969.04	050.10	1	13.90	0.02	0.03	1	13.90	0.02	0.03
Soluble Potash, AA (Oxalate)		050.30	7	14.51	0.27	0.11	7	14.51	0.27	0.11
Soluble Potash, AA (Citrate)		050.31	1	13.35	0.12	0.17	1	13.35	0.12	0.17
Soluble Potash, ICP (Oxalate)		050.50	4	13.92	0.43	0.22	4	13.92	0.43	0.22
Soluble Potash, ICP (Citrate)		050.51	10	14.55	0.47	0.14	9	14.50	0.46	0.10
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	6	14.29	0.49	0.19	6	14.29	0.49	0.19
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	8	14.69	0.41	0.06	8	14.69	0.41	0.06
Soluble Potash, Other		050.99	16	14.37	0.39	0.18	15	14.39	0.39	0.14
Method Group 050.XX PCT			69	14.41	0.44	0.15	66	14.39	0.43	0.12
Free Water, Vacuum Oven	965.08B	060.00	6	0.26	0.09	0.04	6	0.26	0.09	0.04
Method Group 060.XX PCT			6	0.26	0.09	0.04	6	0.26	0.09	0.04
Acid Soluble Calcium, AA	945.04	101.00	1	0.42	0.01	0.01	1	0.42	0.01	0.01
Acid Soluble Calcium, ICP		101.30	14	0.40	0.03	0.01	14	0.40	0.03	0.01
Acid Soluble Calcium, Titrimetric	945.03	101.70	1	0.43	0.00	0.00	1	0.43	0.00	0.00
Method Group 101.XX PCT			16	0.41	0.02	0.01	16	0.41	0.02	0.01
Acid Soluble Magnesium, AA	984.01	121.00	14	1.02	0.07	0.03	14	1.02	0.07	0.03
Acid Soluble Magnesium, ICP		121.30	32	1.04	0.06	0.02	30	1.04	0.04	0.02
Acid Soluble Magnesium, Titrimetric	964.01	121.70	1	1.22	0.03	0.05	1	1.22	0.03	0.05
Acid Soluble Magnesium, Other		121.99	1	0.90	0.02	0.03	1	0.90	0.02	0.03
Method Group 121.XX PCT			48	1.03	0.07	0.02	46	1.03	0.06	0.02
Water Soluble Magnesium, AA		131.00	2	0.86	0.03	0.04	2	0.86	0.03	0.04
Water Soluble Magnesium, ICP		131.30	2	0.94	0.03	0.01	2	0.94	0.03	0.01
Water Soluble Magnesium, Other		131.99	1	0.93	0.00	0.00	1	0.93	0.00	0.00
Method Group 131.XX PCT			5	0.90	0.05	0.02	4	0.91	0.04	0.01
Sulfur, Gravimetric	980.02a	144.01	17	15.56	0.25	0.13	16	15.55	0.23	0.09
Sulfur, Spectrometric		144.70	1	15.05	0.05	0.07	1	15.05	0.05	0.07
Sulfur, Other		144.99	23	15.27	0.50	0.15	22	15.26	0.51	0.13
Method Group 144.XX PCT			42	15.41	0.47	0.14	40	15.40	0.47	0.11
Arsenic, Atomic Absorption		151.00	1	17.90	0.71	1.00	1	17.90	0.71	1.00
Arsenic, ICP		151.30	8	16.43	2.15	0.56	8	16.43	2.15	0.56
Arsenic, Other		151.99	3	18.54	1.33	1.62	3	18.54	1.33	1.62
Method Group 151.XX PPM			12	17.08	2.08	0.86	11	17.04	2.12	0.66
Acid Soluble Boron, Spectrometric	982.01	165.00	9	0.113	0.010	0.005	8	0.114	0.009	0.003
Acid Soluble Boron, Other		165.99	18	0.114	0.009	0.004	17	0.113	0.008	0.004
Method Group 165.XX PCT			27	0.114	0.009	0.004	25	0.114	0.008	0.003
Water Soluble Boron, Titrimetric	949.03	171.70	1	0.130	0.000	0.000	1	0.130	0.000	0.000
Water Soluble Boron, Other		171.99	2	0.144	0.034	0.021	2	0.144	0.034	0.021
Method Group 171.XX PCT			3	0.139	0.028	0.014	3	0.139	0.028	0.014

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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
Cadmium, Atomic Absorption		181.00	3	5.59	0.29	0.14	3	5.59	0.29	0.14
Cadmium, ICP		181.30	10	5.72	0.34	0.18	10	5.72	0.34	0.18
Cadmium, Other		181.99	2	6.56	0.16	0.19	2	6.56	0.16	0.19
Method Group 181.XX PPM			16	5.88	0.52	0.17	16	5.88	0.52	0.17
Water Soluble Chlorine, Titrimetric	928.02	190.00	8	9.63	0.38	0.08	7	9.62	0.40	0.05
Water Soluble Chlorine, Other		190.99	4	9.86	0.51	0.15	4	9.86	0.51	0.15
Method Group 190.XX PCT			13	9.81	0.54	0.10	12	9.75	0.53	0.08
Chromium, Atomic Absorption		191.00	1	78.50	3.54	5.00	1	78.50	3.54	5.00
Chromium, ICP		191.30	13	62.16	20.04	7.44	12	64.17	17.27	2.90
Chromium, Other		191.99	1	42.86	2.28	3.23	1	42.86	2.28	3.23
Method Group 191.XX PPM			15	61.96	19.77	7.00	14	63.67	17.42	3.08
Acid Soluble Cobalt, AA		202.00	1	21.50	0.71	1.00	1	21.50	0.71	1.00
Acid Soluble Cobalt, ICP	965.11	202.30	10	10.76	4.51	0.40	10	10.76	4.51	0.40
Acid Soluble Cobalt, Other		202.99	1	6.68	0.30	0.42	1	6.68	0.30	0.42
Method Group 202.XX PPM			12	11.32	5.29	0.45	12	11.32	5.29	0.45
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0.0014	0.0003	0.0001	3	0.0014	0.0003	0.0001
Acid Soluble Copper, ICP		221.30	16	0.0017	0.0006	0.0003	15	0.0017	0.0006	0.0002
Acid Soluble Copper, Other		221.99	3	0.0021	0.0008	0.0001	3	0.0021	0.0008	0.0001
Method Group 221.XX PCT			23	0.0018	0.0007	0.0003	21	0.0018	0.0007	0.0001
Acid Soluble Iron, Atomic Absorption	980.01	241.00	14	1.05	0.13	0.09	14	1.05	0.13	0.09
Acid Soluble Iron, ICP		241.30	31	1.04	0.08	0.05	30	1.04	0.08	0.05
Acid Soluble Iron, Other		241.99	1	1.23	0.02	0.03	1	1.23	0.02	0.03
Method Group 241.XX PCT			48	1.06	0.12	0.06	44	1.06	0.10	0.05
Lead, Atomic Absorption		251.00	3	20.61	6.00	1.70	3	20.61	6.00	1.70
Lead, ICP		251.30	10	14.35	2.24	0.93	9	14.30	2.29	0.67
Lead, Other		251.99	2	15.99	1.77	1.06	2	15.99	1.77	1.06
Method Group 251.XX PPM			16	16.15	4.09	1.16	16	16.15	4.09	1.16
Acid Soluble Manganese, AA	972.02a	261.00	12	0.303	0.014	0.014	12	0.303	0.014	0.014
Acid Soluble Manganese, ICP	972.02a	261.30	27	0.294	0.023	0.007	25	0.292	0.021	0.006
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.293	0.001	0.002	1	0.293	0.001	0.002
Acid Soluble Manganese, Other		261.99	3	0.302	0.012	0.009	3	0.302	0.012	0.009
Method Group 261.XX PCT			43	0.297	0.020	0.009	41	0.299	0.018	0.009
Water Soluble Manganese, ICP	972.03	271.30	1	0.070	0.014	0.020	1	0.070	0.014	0.020
Mercury, ICP		281.30	2	1.45	1.67	0.04	2	1.45	1.67	0.04
Mercury, Other		281.99	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Method Group 281.XX PPM			3	0.97	1.49	0.03	3	0.97	1.49	0.03
Molybdenum, ICP		289.30	12	8.70	1.09	0.69	12	8.70	1.09	0.69
Molybdenum, Other		289.99	1	6.73	0.88	1.24	1	6.73	0.88	1.24
Method Group 289.XX PPM			13	8.54	1.19	0.73	13	8.54	1.19	0.73

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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
Nickel, Atomic Absorption		291.00	3	35.20	2.96	1.17	3	35.20	2.96	1.17
Nickel, ICP		291.30	10	32.87	3.02	1.95	10	32.87	3.02	1.95
Method Group 291.XX PPM			13	33.41	3.11	1.77	13	33.41	3.11	1.77
Selenium, ICP		301.30	3	2.68	2.48	0.30	3	2.68	2.48	0.30
Selenium, Other		301.99	1	1.92	0.77	1.09	1	1.92	0.77	1.09
Method Group 301.XX PPM			4	2.49	2.14	0.50	4	2.49	2.14	0.50
Sodium, Flame Photometric	974.01	311.30	1	0.28	0.01	0.01	1	0.28	0.01	0.01
Sodium, Other		311.99	6	0.35	0.02	0.02	6	0.35	0.02	0.02
Method Group 311.XX PCT			7	0.34	0.03	0.02	7	0.34	0.03	0.02
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	13	0.231	0.009	0.006	13	0.231	0.009	0.006
Acid Soluble Zinc, ICP		321.30	31	0.237	0.018	0.007	30	0.236	0.017	0.007
Acid Soluble Zinc, Other		321.99	2	0.231	0.014	0.015	2	0.231	0.014	0.015
Method Group 321.XX PCT			47	0.236	0.016	0.008	46	0.235	0.015	0.007
Water Soluble Zinc, ICP		325.30	1	0.310	0.014	0.020	1	0.310	0.014	0.020

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: 002.XX PCT			Meth: 010.11 PCT			Meth: 010.60 PCT		
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Nitrate Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>									<u>Modified Comprehensi</u>			<u>Combustion</u>		
415	13.89	1.73	371	13.60	.39	Avg	0.65		Avg	14.02		136	14.24	.43
456	13.65	.77	232	13.56	.23	300	0.61	-.23	073	13.80	-1.36	037	14.20	.33
232	13.56	.32	397	13.54	.20	027	0.58	-.32	309	13.76	-1.64	247	14.21	.20
Avg	13.48		Avg	13.51		397	0.58	-.34	114	13.37 S	-3.64	233	14.20	.18
090	13.45	-.15	090	13.45	-.27	368	0.45	-.97	Meth: 010.12 PCT			009	14.21	.13
457	13.39	-.41	372	13.42	-.38	220	0.40 X	-1.25	Total Nitrogen			450	14.20	.07
309	13.24	-1.04	220	13.43	-.49	Meth: 009.10 PCT			Salicylic			041	14.20	.05
230	13.20	-1.23	457	13.39	-.54	Ammon & Nitrate N			455 16.86 s 39.92			Avg	14.19	
Meth: 001.99 PCT			255	13.36	-.67	Devarda			415	14.23	1.35	291	14.18	-.07
Ammoniacal Nitrogen			409	13.29	-.97	200	14.24	1.47	397	14.12	.54	361	14.19	-.14
Other			027	13.24	-1.17	258	14.12	.10	254	14.14	.46	034	14.18	-.15
393	14.07	2.20	309	13.24	-1.21	Avg	14.11		Avg	14.09		409	14.18	-.26
105	13.79 X	1.50	230	13.20	-1.41	457	14.05	-.76	416	14.02	-.73	354	14.14	-.30
096	13.64	.38	420	13.49 R	-1.75	090	14.04	-.87	185	13.97	-1.28	428	14.15	-.34
234	13.58	.33	368	12.45 s	-4.68	Meth: 009.99 PCT			Meth: 010.60 PCT			040	14.15	-.38
300	13.60	.23	Meth: 002.20 PCT			Ammon & Nitrate N			Total Nitrogen			360	14.13	-.39
371	13.60	.22	Nitrate Nitrogen			Other			Combustion			390	14.16	-.40
Avg	13.54		230	1.04	-.71	105	14.18	-.71	296	14.63	2.42	443	14.10	-.48
397	13.54	-.13	Meth: 002.99 PCT			Meth: 009.XX PCT			177	14.56	2.03	096	14.11	-.51
372	13.42	-.52	Nitrate Nitrogen			Ammon & Nitrate N			043	14.48	1.57	402	14.08	-.60
220	13.43	-.59	Other			105	14.18 R	1.97	419	14.47	1.52	405	14.08	-.60
255	13.36	-.80	372	0.85	1.81	200	14.24	1.47	457	14.42	1.31	102	14.09	-.76
409	13.29	-1.09	232	0.66	.49	258	14.12	.10	377	14.40	1.18	325	14.06	-.77
027	13.24	-1.28	300	0.61	.25	Avg	14.11		095	14.39	1.11	426	14.05	-.78
420	13.49 R	-1.69	Avg	0.59		457	14.05	-.76	042	14.20 R	1.09	007	14.05	-.80
368	12.45 s	-4.63	027	0.58	-.07	090	14.04	-.87	393	14.37	.97	027	14.00	-1.02
Meth: 001.XX PCT			397	0.58	-.16	Meth: 010.11 PCT			131	14.35	.87	368	14.10 R	-1.07
Ammoniacal Nitrogen			368	0.45	-.98	Total Nitrogen			292	14.33	.75	234	13.98	-1.20
393	14.07	2.46	220	0.40 X	-1.39	Modified Comprehensi			232	14.32	.72	057	13.97	-1.23
415	13.89	1.73	Meth: 002.XX PCT			220	14.19	.88	231	14.32	.69	406	13.95	-1.34
105	13.79 R	1.69	Nitrate Nitrogen			460	14.18	.86	035	14.27	.59	330	14.15 R	-1.38
456	13.65	.72	230	1.04	1.92	322	14.10	.43	055	14.29	.56	351	13.91	-1.54
096	13.64	.56	372	0.85	1.01	211	14.10	.41	028	14.20	.52	324	13.90 R	-1.91
234	13.58	.44	232	0.66	.09	105	14.05	.31	372	14.27	.45	024	13.81	-2.09
300	13.60	.41							073	14.27	.44	023	13.70	-2.70
												230	13.40 s	-4.43

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.99 PCT			Meth: 010.XX PCT			Meth: 010.XX PCT			Meth: 020.20 PCT			Meth: 020.99 PCT		
Total Nitrogen			Total Nitrogen			Total Nitrogen			Total Phosphate			Total Phosphate		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Spectrometric</u>			<u>Other</u>		
105	14.21	.68	041	14.20	.20	073	13.80	-2.03	460	3.98	-1.68	Avg	4.02	
300	14.20	.60	361	14.19	.20	309	13.76	-2.31	220	4.02 R	-2.05	322	3.99	-.91
Avg	14.11		034	14.18	.16	023	13.70	-2.55	372	3.57 s	-5.28	Meth: 020.XX PCT		
255	13.93	-1.29	220	14.19	.14	230	13.40 s	-4.28	Meth: 020.40 PCT			<u>Total Phosphate</u>		
420	13.40 S	-5.35	291	14.18	.13	114	13.37 s	-4.33	Total Phosphate			443	5.13 s	7.95
			460	14.18	.11	420	13.40 s	-4.43	Automated			457	4.69 s	4.28
			Avg	14.16		Meth: 020.10 PCT			Total Phosphate			330	4.40	1.86
Meth: 010.XX PCT			354	14.14	-.16	Total Phosphate			035	4.31	1.10	428	4.39	1.80
<u>Total Nitrogen</u>			254	14.14	-.19	<u>Grav Quimociac</u>			042	4.20 R	.98	423	4.39	1.74
455	16.86 s	22.17	360	14.13	-.27	041	4.27	1.14	456	4.29	.96	406	4.32	1.21
296	14.63	2.57	428	14.15	-.28	114	4.28	1.02	409	4.20	.05	035	4.31	1.08
177	14.56	2.19	322	14.10	-.30	Avg	4.16		Avg	4.19		324	4.23 R	1.07
043	14.48	1.72	423	14.12	-.31	090	4.13	-.26	105	4.19	-.21	041	4.27	.96
419	14.47	1.68	040	14.15	-.31	105	4.12	-.38	247	4.18	-.30	456	4.29	.95
457	14.42	1.46	443	14.10	-.32	405	4.01	-1.39	096	4.01	-1.79	361	4.29	.94
377	14.40	1.33	211	14.10	-.32	Meth: 020.20 PCT			Meth: 020.50 PCT			368	4.18 R	.94
095	14.39	1.26	397	14.12	-.35	Total Phosphate			Total Phosphate			042	4.20	.86
393	14.37	1.12	390	14.16	-.36	<u>Spectrometric</u>			<u>ICP</u>			114	4.28	.82
042	14.20 R	1.11	096	14.11	-.38	457	4.69 s	4.50	330	4.40	1.42	426	4.20	.77
131	14.35	1.02	405	14.08	-.45	428	4.39	1.91	423	4.39	1.32	292	4.27	.75
292	14.33	.90	402	14.08	-.45	406	4.32	1.29	361	4.29	.59	309	4.26	.66
232	14.32	.88	325	14.06	-.63	324	4.23	1.14	393	4.24	.26	232	4.25	.64
231	14.32	.85	426	14.05	-.63	292	4.27	.81	390	4.23	.16	393	4.24	.55
055	14.29	.72	105	14.05	-.65	309	4.26	.73	Avg	4.21		390	4.23	.45
035	14.27	.71	007	14.05	-.65	232	4.25	.70	402	4.17	-.37	105	4.19	.21
372	14.27	.60	102	14.09	-.66	258	4.20	.24	247	4.13	-.62	258	4.20	.19
073	14.27	.59	416	14.02	-.76	Avg	4.17		426	4.20	-.68	409	4.20	.16
028	14.20	.55	027	14.00	-.87	371	4.17	-.02	368	4.18	-.88	Avg	4.18	
136	14.24	.55	368	14.10 R	-1.01	200	4.16	-.36	432	4.14	-1.05	371	4.17	-.06
415	14.23	.40	234	13.98	-1.05	416	4.13	-.37	255	3.97	-1.85	402	4.17	-.16
037	14.20	.40	185	13.97	-1.07	234	4.17	-.44	Meth: 020.99 PCT			247	4.18	-.21
247	14.21	.32	057	13.97	-1.08	231	4.15	-.48	Total Phosphate			200	4.16	-.36
105	14.21	.30	406	13.95	-1.18	415	4.10	-.60	<u>Other</u>			416	4.13	-.39
009	14.21	.28	255	13.93	-1.26	419	4.10	-.63	443	5.13 S	29.94	090	4.13	-.39
233	14.20	.28	330	14.15 R	-1.36	450	4.06	-1.31	455	4.05	.82	247	4.13	-.40
409	14.18	.26	351	13.91	-1.38	420	4.01	-1.46				234	4.17	-.42
300	14.20	.22	324	13.90 R	-1.78									
450	14.20	.22	024	13.81	-1.93									

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index			
Meth: 020.XX PCT			Meth: 030.XX PCT			Meth: 040.XX PCT			Meth: 041.50 PCT			Meth: 041.XX PCT					
<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>					
231	4.15	-.47	220	0.13 R	3.07	Avg	3.98		ICP			028	4.49 s	3.54			
105	4.12	-.48	096	0.08	1.43	300	3.95	-.15	291	4.26	1.88	254	4.39	2.39			
415	4.10	-.61	Avg	0.04		096	3.93	-.23	361	4.18	.78	105	4.36	2.09			
419	4.10	-.64	409	0.04	-.17	220	3.89 R	-.82	393	4.16	.43	034	4.26	1.11			
432	4.14 R	-1.05	372	0.03	-.20	372	3.54	-1.91	009	4.14	.38	055	4.23	1.09			
455	4.05	-1.10	090	0.00	-1.18	Meth: 041.10 PCT			325	4.16	.34	291	4.26	1.09			
450	4.06	-1.29	Meth: 040.10 PCT			Dir Available Phosph			360	4.15	.25	055	4.24	1.05			
096	4.01	-1.39	<u>InDir Available Phos</u>			<u>Grav Quimociac</u>			Avg	4.13		230	4.18 R	.80			
420	4.01	-1.44	<u>Grav Quim</u>			254	4.39	2.13	043	4.11	-.50	397	4.16	.62			
405	4.01	-1.45	090	4.13	.87	055	4.23	.90	007	4.10	-.60	105	4.21	.62			
322	3.99	-1.60	Avg	4.04		296	4.21	.32	354	4.08	-.94	296	4.21	.57			
460	3.98	-1.65	300	3.95	-.87	211	4.20	.27	377	4.02	-1.84	296	4.21	.57			
255	3.97	-1.75	Meth: 040.20 PCT			Avg	4.17		255	3.78 S	-5.37	211	4.20	.52			
220	4.02 R	-1.99	<u>InDir Available Phos</u>			102	4.14	-.39	023	3.76 S	-5.81	361	4.18	.38			
372	3.57 s	-5.10	<u>Spectrometri</u>			009	4.11	-.65	Meth: 041.60 PCT			095	4.18	.27			
Meth: 030.10 PCT			220			3.89 X	.99	Dir Available Phosph			351	4.16	.20				
Insoluble Phosphate			Avg			3.71		EDTA Extract			393	4.16	.16				
<u>Grav Quimociac</u>			372			3.54	-.72	028			4.49 S	3.43	325	4.16	.08		
090	0.00	.00	Meth: 041.20 PCT			Dir Available Phosph			105	4.36	1.92	360	4.15	.02			
Meth: 030.20 PCT			Meth: 040.40 PCT			Spectrometric			034	4.26	.92	Avg	4.15				
Insoluble Phosphate			InDir Available Phos			Automated			296	4.21	.36	027	4.13	-.21			
<u>Spectrometric</u>			409			4.16	.87	Avg			4.17		102	4.14	-.22		
220	0.13	.87	Avg			4.05		073			4.16	-.11	009	4.14	-.29		
Avg	0.08		096			3.93	-.85	351			4.16	-.13	009	4.11	-.40		
372	0.03	-.86	Meth: 041.40 PCT			Dir Available Phosph			397	4.16	-.63	043	4.11	-.46			
Meth: 030.40 PCT			Meth: 040.50 PCT			Automated			043	4.11	-.75	105	4.11	-.50			
Insoluble Phosphate			InDir Available Phos			ICP			024	4.08	-.99	007	4.10	-.53			
<u>Automated</u>			423			4.20	.71	231			4.05	-1.36	043	4.11	-.56		
096	0.08	.86	Meth: 040.XX PCT			095			Meth: 041.99 PCT			040	4.12	-.58			
Avg	0.06		<u>InDir Available Phos</u>			027			Dir Available Phosph			024	4.08	-.74			
409	0.04	-.88	423			4.20	.92	Avg			4.08		354	4.08	-.75		
Meth: 040.10 PCT			409			4.16	.75	131			3.93	-1.27	131	4.06	-.90		
Insoluble Phosphate			090			4.13	.62	Meth: 041.40 PCT			Dir Available Phosph			231	4.05	-1.11	
<u>Automated</u>			423			4.20	.92	095			4.18	.82	Other				
Avg			409			4.16	.75	027			4.13	.45	105			4.21	.32
Avg			090			4.13	.62	Avg			4.08		Avg			4.19	
Avg			423			4.20	.92	131			3.93	-1.27	230			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.19	
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18
Avg			090			4.13	.62	Avg			4.08		Avg			4.18	-1.18
Avg			423			4.20	.92	Avg			4.08		Avg			4.18	-1.18
Avg			409			4.16	.75	Avg			4.08		Avg			4.18	-1.18

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: 050.51 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT		
<u>Dir Available Phosph</u>			Soluble Potash			Soluble Potash			Soluble Potash			<u>Soluble Potash</u>		
023	3.76 s	-3.97	<u>STPB Oxalate</u>			<u>ICP (Citrate)</u>			<u>Other</u>			450	14.71	.81
			102	13.89	-1.74	432	15.14	1.42	402	14.82	1.27	041	14.72	.76
			258	13.81	-1.98	009	15.14	1.40	419	14.87	1.24	456	14.71	.74
Meth: 048.20 PCT			Meth: 050.10 PCT			007 15.03 R 1.29			232 14.85 1.18			043 14.69 .69		
<u>Water Soluble Phosph</u>			Soluble Potash			291 14.77 .59			325 14.73 1.04			024 14.68 .65		
<u>Spectrometric</u>			<u>STPB Citrate</u>			023 14.60 .35			042 14.65 .68			042 14.65 .61		
420	3.66	.87	372	13.90	.71	Avg	14.50		330	14.50	.28	023	14.60	.55
Avg	3.53		Avg	13.90		043	14.41	-.26	247	14.42	.24	055	14.62	.51
096	3.40	-.87	300	12.09 S	-85.32	377	14.35	-.34	131	14.47	.22	114	14.53	.33
Meth: 048.50 PCT			Meth: 050.30 PCT			361 14.34 -.36			177 14.45 .19			057 14.46 .32		
<u>Water Soluble Phosph</u>			Soluble Potash			423 13.94 -1.24			Avg 14.39			416 14.53 .32		
<u>ICP</u>			<u>AA (Oxalate)</u>			393 13.82 -1.49			360 14.35 -.25			220 14.42 .31		
393	3.49	.71	040	14.94	1.58	Meth: 050.60 PCT			390 14.10 -.75			055 14.50 .30		
Meth: 048.XX PCT			450 14.71 .92			Soluble Potash			455 14.07 -.83			330 14.50 .25		
<u>Water Soluble Phosph</u>			043 14.69 .67			<u>Flame (Oxalate)</u>			255 14.05 -.89			247 14.42 .22		
420	3.66	1.20	Avg	14.51		443	16.62 S	4.79	322	14.04	-.91	131	14.47	.20
Avg	3.52		136	14.45	-.26	406	14.87	1.18	368	14.11 R	-1.21	043	14.41	.19
393	3.49	-.21	073	14.29	-.86	415	14.80	1.05	457	13.50	-2.30	231	14.47	.18
096	3.40	-1.01	351	14.28	-.88	055	14.50	.45	Meth: 050.XX PCT			177	14.45	.17
Meth: 050.00 PCT			234 14.24 -1.06			Avg 14.29			<u>Soluble Potash</u>			211	14.47	.17
Soluble Potash			Meth: 050.31 PCT			460 13.95 -.71			443 16.62 s 5.17			035	14.42	.16
<u>STPB Oxalate</u>			Soluble Potash			309 13.93 -.80			028 15.53 2.64			136	14.45	.13
397	14.88 R	2.03	<u>AA (Citrate)</u>			200 13.71 -1.28			324 14.90 R 1.82			Avg	14.39	
090	14.81	1.65	254	13.35	.71	Meth: 050.61 PCT			432 15.14 1.74			009	14.36	-.11
055	14.62	.95	Meth: 050.50 PCT			Soluble Potash			009 15.14 1.72			377	14.35	-.11
114	14.53	.65	Soluble Potash			<u>Flame (Citrate)</u>			007 15.03 R 1.59			361	14.34	-.14
416	14.53	.64	<u>ICP (Oxalate)</u>			028 15.53 2.05			095 14.97 1.35			131	14.30	-.22
057	14.46	.58	324	14.90 s	2.64	095	14.97	.70	040	14.94	1.27	292	14.30	-.23
220	14.42	.53	292	14.30	.88	041	14.72	.07	397	14.88	1.21	360	14.35	-.23
231	14.47	.42	354	14.27	.82	456	14.71	.07	402	14.82	1.14	351	14.28	-.28
211	14.47	.40	Avg	13.92		Avg	14.69		419	14.87	1.11	073	14.29	-.28
009	14.36	.09	426	13.74	-.46	024	14.68	-.04	406	14.87	1.10	354	14.27	-.36
Avg	14.35		420	13.38	-1.36	035	14.42	-.70	232	14.85	1.05	296	14.22	-.40
296	14.22	-.49				131	14.30	-.96	090	14.81	.96	234	14.24	-.41
043	14.23	-.65				034	14.21	-1.17	415	14.80	.96	034	14.21	-.42
405	14.17	-.69							325	14.73	.93	043	14.23	-.48
									291	14.77	.86	405	14.17	-.53
												390	14.10	-.68

* 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: 050.XX PCT</u>			<u>Meth: 060.XX PCT</u>			<u>Meth: 101.XX PCT</u>			<u>Meth: 121.00 PCT</u>			<u>Meth: 121.30 PCT</u>		
<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>		
455	14.07	-.75	105	0.31	.80	041	0.59 s	7.81	<u>AA</u>					
255	14.05	-.81	Avg	0.26		096	0.58 s	6.80	457	0.76 s	-3.98	324	0.98	-1.39
322	14.04	-.82	456	0.22	-.48	393	0.45	1.82				023	0.97	-1.67
460	13.95	-1.04	416	0.22	-.48	415	0.43	1.15	<u>Meth: 121.30 PCT</u>			117	0.96	-1.88
423	13.94	-1.06	247	0.23	-.50	390	0.43	1.07	<u>Acid Soluble Magnesi</u>			393	0.87 A	-3.87
368	14.11 R	-1.09	007	0.18	-.93	450	0.43	.98	<u>ICP</u>			247	0.60 s	-9.84
309	13.93	-1.12				095	0.43	.89	405	1.82 s	17.37			
372	13.90	-1.16	<u>Meth: 101.00 PCT</u>			035	0.42	.67	330	1.80 s	17.03	<u>Meth: 121.70 PCT</u>		
102	13.89	-1.20	<u>Acid Soluble Calcium</u>			105	0.42	.42	041	1.28 s	5.42	<u>Acid Soluble Magnesi</u>		
393	13.82	-1.34	<u>AA</u>			Avg	0.41		090	1.15 R	2.57	<u>Titrimetric</u>		
258	13.81	-1.35	105	0.42	.71	232	0.40	-.09	114	1.14	2.14	415	1.22	-.71
426	13.74	-1.53				057	0.40	-.25	432	1.13	2.14			
200	13.71	-1.67	<u>Meth: 101.30 PCT</u>			027	0.40	-.28	423	1.09	1.03	<u>Meth: 121.99 PCT</u>		
457	13.50	-2.08	<u>Acid Soluble Calcium</u>			009	0.40	-.49	231	1.09	1.03	<u>Acid Soluble Magnesi</u>		
420	13.38	-2.42	<u>ICP</u>			247	0.39	-.64	354	1.08	1.02	<u>Other</u>		
254	13.35	-2.44	041	0.59 s	7.82	131	0.38	-.92	433	1.08	.94	234	0.90	.71
300	12.09 s	-5.36	096	0.58 s	6.83	102	0.38	-1.15	426	1.08	.89			
			393	0.45	1.90	420	0.37	-1.29	368	1.07	.70	<u>Meth: 121.XX PCT</u>		
			390	0.43	1.15	423	0.37	-1.65	057	1.06	.55	<u>Acid Soluble Magnesi</u>		
			450	0.43	1.05				419	1.06	.46	405	1.82 s	12.91
			095	0.43	.99	<u>Meth: 121.00 PCT</u>			390	1.04	.45	330	1.80 s	12.66
			035	0.42	.75	<u>Acid Soluble Magnesi</u>			255	1.05	.38	041	1.28 s	4.16
			232	0.40	.04	<u>AA</u>			035	1.05	.24	415	1.22 A	3.18
			Avg	0.40		200	1.15	1.90	232	1.04	.24	090	1.15 R	2.07
			027	0.40	-.16	034	1.12	1.41	037	1.05	.17	200	1.15	2.02
			057	0.40	-.21	028	1.07	.68	409	1.05	.17	114	1.14	1.77
			009	0.40	-.40	177	1.06	.50	360	1.05	.17	432	1.13	1.76
			247	0.39	-.52	397	1.03	.37	027	1.05	.16	034	1.12	1.48
			131	0.38	-.80	460	1.04	.31	Avg	1.04		423	1.09	.95
			102	0.38	-1.04	043	1.03	.19	300	1.03	-.23	231	1.09	.95
			420	0.37	-1.17	296	1.03	.13	009	1.02	-.49	354	1.08	.94
			423	0.37	-1.52	Avg	1.02		102	1.01	-.74	433	1.08	.88
						351	1.00	-.26	420	1.01	-.76	426	1.08	.84
			<u>Meth: 101.70 PCT</u>			105	0.99	-.49	291	1.01	-.78	368	1.07	.70
			<u>Acid Soluble Calcium</u>			309	1.00	-.54	096	1.01	-.78	028	1.07	.67
			<u>Titrimetric</u>			258	0.97	-.86	450	1.00	-.88	057	1.06	.59
			415	0.43	.71	055	0.95	-1.18	131	0.99	-1.04	419	1.06	.54
						220	0.89	-2.04	095	0.99	-1.09	177	1.06	.47

* 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>		
255	1.05	.41	AA			Gravimetric			Other			037	15.45	.13
390	1.04	.39	220	0.87	1.19	114	15.55	-.03	027	15.32	.12	117	15.45	.12
035	1.05	.38	Avg	0.86		043	15.50	-.23	Avg	15.26		457	15.43	.09
037	1.05	.31	309	0.85	-.29	405	15.53	-.26	390	15.25	-.10	Avg	15.40	
027	1.05	.31	Meth: 131.30 PCT			028	15.49	-.36	330	15.25	-.10	372	15.34	-.14
360	1.05	.31	<u>Water Soluble Magnes</u>			117	15.45	-.47	423	15.15	-.24	073	15.34	-.15
409	1.05	.31	<u>ICP</u>			105	15.50	-.63	040	14.92	-.76	027	15.32	-.18
232	1.04	.28	255	0.96	.84	372	15.34	-.90	023	14.71	-1.08	368	15.40	-.19
460	1.04	.27	Avg	0.94		073	15.34	-.92	096	14.59	-1.33	457	15.31	-.22
043	1.03	.17	300	0.91	-.90	457	15.31	-1.04	450	14.57	-1.37	351	15.35	-.27
296	1.03	.05	Meth: 131.99 PCT			371	15.18	-1.60	255	14.44	-1.63	390	15.25	-.34
300	1.03	.04	<u>Water Soluble Magnes</u>			Meth: 144.02 PCT			090	14.29	-1.91	330	15.25	-.34
Avg	1.03		<u>Other</u>			<u>Sulfur</u>			035	12.95 s	-4.58	371	15.18	-.49
009	1.02	-.20	027	0.93	.00	<u>Gravimetric</u>			Meth: 144.XX PCT			423	15.15	-.56
420	1.01	-.35	Meth: 131.XX PCT			292	13.93 S	.00	<u>Sulfur</u>			393	15.05	-.76
096	1.01	-.37	<u>Water Soluble Magnes</u>			Meth: 144.70 PCT			055	16.58	2.51	040	14.92	-1.10
291	1.01	-.37	255	0.96	1.11	<u>Sulfur</u>			232	16.44	2.24	023	14.71	-1.47
351	1.00	-.38	027	0.93	.39	<u>Spectrometric</u>			095	16.03	1.33	096	14.59	-1.74
102	1.01	-.38	Avg	0.91		393	15.05	.71	324	15.95	1.17	450	14.57	-1.79
397	1.03	-.41	300	0.91	-.24	Meth: 144.99 PCT			230	15.70 R	1.06	255	14.44	-2.07
450	1.00	-.44	220	0.87 R	-1.34	<u>Sulfur</u>			057	15.85	.95	090	14.29	-2.37
131	0.99	-.56	309	0.85	-1.43	<u>Other</u>			360	15.84	.93	292	13.93 s	-3.15
095	0.99	-.60	Meth: 144.01 PCT			232	16.44	2.36	354	15.57 R	.69	035	12.95 s	-5.25
105	0.99	-.64	<u>Sulfur</u>			360	15.84	1.15	177	15.71	.65	Meth: 151.00 PPM		
309	1.00	-.66	<u>Gravimetric</u>			177	15.71	.89	296	15.70	.64	<u>Arsenic</u>		
324	0.98	-.82	055	16.58 s	4.41	354	15.57 R	.83	009	15.46	.48	<u>Atomic Absorption</u>		
023	0.97	-1.02	095	16.03	2.04	361	15.62	.70	361	15.62	.45	136	17.90	.71
258	0.97	-1.05	230	15.70 R	1.82	105	15.50	.36	105	15.50	.36	Meth: 151.30 PPM		
117	0.96	-1.18	324	15.95	1.72	102	15.57	.36	102	15.57	.36	<u>Arsenic</u>		
055	0.95	-1.40	057	15.85	1.27	200	15.55	.36	200	15.55	.36	<u>ICP</u>		
234	0.90	-2.18	296	15.70	.65	114	15.55	.30	114	15.55	.30	368	26.65 s	5.60
220	0.89	-2.36	200	15.55	.34	405	15.53	.29	405	15.53	.29	037	19.59	1.50
393	0.87	-2.63	102	15.57	.14	136	15.53	.26	136	15.53	.26	102	18.07	.83
457	0.76 s	-4.52	Avg	15.55		037	15.45	.38	291	15.51	.24	450	18.00	.73
247	0.60 s	-7.00				457	15.43	.34	028	15.49	.21	247	17.50	.55
						368	15.40	.33	043	15.50	.20	Avg	16.43	
						351	15.35	.29	419	15.47	.15			

* 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: 151.30 PPM			Meth: 165.00 PCT			Meth: 165.XX PCT			Meth: 171.XX PCT			Meth: 181.XX PPM		
Arsenic			Acid Soluble Boron			Acid Soluble Boron			Water Soluble Boron			Cadmium		
<u>ICP</u>			<u>Spectrometric</u>			<u>Spectrometric</u>			<u>Atomic Absorption</u>			<u>ICP</u>		
009	15.65	-.38	Avg	0.114		354	0.125	1.50	432	0.170	1.33	419	7.05	2.26
027	15.27	-.54	023	0.113	-.18	105	0.123	1.09	Avg	0.139		409	6.65	1.50
393	13.71 X	-1.26	057	0.109	-.62	397	0.122	.97	416	0.130	-.33	231	6.47	1.14
255	13.63	-1.30	428	0.104	-1.15	090	0.115	.63	027	0.118	-.79	009	6.25	.72
Meth: 151.99 PPM			055	0.106 R	-1.40	324	0.119	.61	Meth: 181.00 PPM			102	6.00	.24
Arsenic			220	0.101	-1.58	393	0.118	.52	Cadmium			136	5.95	.16
<u>Other</u>			Meth: 165.99 PCT			009	0.117	.42	<u>Atomic Absorption</u>			368	5.90	.04
231	19.06	.65	Acid Soluble Boron			433	0.117	.39	136	5.95	1.24	Avg	5.88	
409	19.05	.43	<u>Other</u>			043	0.116	.38	Avg	5.59		255	5.75	-.25
Avg	18.54		432	0.620 s	64.50	423	0.115	.19	220	5.45	-.52	037	5.83	-.34
220	17.50	-1.37	368	0.130 R	2.40	Avg	0.114		457	5.38	-.83	232	5.75	-.38
Meth: 151.XX PPM			360	0.131	2.26	409	0.113	-.08	Meth: 181.30 PPM			247	5.75	-.55
Arsenic			354	0.125	1.61	023	0.113	-.14	Cadmium			393	5.45	-.83
368	26.65 s	5.43	324	0.119	.69	255	0.113	-.15	<u>ICP</u>			220	5.45	-.84
037	19.59	1.23	090	0.115	.67	300	0.110	-.44	419	7.05 s	3.93	457	5.38	-.99
231	19.06	1.01	009	0.117	.49	231	0.110	-.44	009	6.25	1.58	035	5.24	-1.25
409	19.05	.95	433	0.117	.45	232	0.110	-.47	102	6.00	.85	450	5.23	-1.29
220	17.50 R	.74	043	0.116	.42	291	0.110	-.50	247	5.75	.74	Meth: 190.00 PCT		
102	18.07	.59	423	0.115	.24	057	0.109	-.60	037	5.83	.60	Water Soluble Chlori		
136	17.90	.47	Avg	0.113		428	0.104	-1.20	368	5.90	.54	<u>Titrimetric</u>		
450	18.00	.45	409	0.113	-.06	200	0.105	-1.21	232	5.75	.45	457	11.00 s	3.45
247	17.50	.32	255	0.113	-.12	042	0.103	-1.41	255	5.75	.12	105	10.10	1.21
Avg	17.04		300	0.110	-.42	055	0.106 R	-1.52	Avg	5.72		028	9.86	.61
009	15.65	-.66	231	0.110	-.42	114	0.100	-1.65	393	5.45	-.78	397	9.75 R	.47
027	15.27	-.84	232	0.110	-.45	220	0.101	-1.69	035	5.24	-1.42	220	9.74	.31
393	13.71 X	-1.57	291	0.110	-.49	Meth: 171.70 PCT			450	5.23	-1.49	102	9.72	.26
255	13.63	-1.61	200	0.105	-1.23	Water Soluble Boron			Meth: 181.99 PPM			460	9.65	.15
Meth: 165.00 PCT			042	0.103	-1.44	<u>Titrimetric</u>			Cadmium			Avg	9.62	
Acid Soluble Boron			114	0.100	-1.68	416	0.130	.00	Other			043	9.45	-.43
<u>Spectrometric</u>			Meth: 165.XX PCT			Meth: 171.99 PCT			Other			023	8.79	-2.07
258	0.127	1.31	Acid Soluble Boron			Water Soluble Boron			Avg			Meth: 190.99 PCT		
105	0.123	.89	<u>Other</u>			<u>Other</u>			231			Water Soluble Chlori		
397	0.122	.79	432	0.620 s	61.44	432	0.170	.96	6.47			<u>Other</u>		
393	0.118	.38	368	0.130 R	2.25	Avg	0.144		-.63			368	10.45	1.21
Meth: 165.99 PCT			360	0.131	2.11	027	0.118	-.76	Meth: 190.99 PCT			009	9.93	.15
Acid Soluble Boron			258	0.127	1.55	Meth: 171.70 PCT			Meth: 190.99 PCT			300	9.91	.10
<u>Spectrometric</u>			Acid Soluble Boron			Water Soluble Boron			Avg			Water Soluble Chlori		
<u>Other</u>			<u>Other</u>			<u>Other</u>			231			<u>Other</u>		

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 190.99 PCT</u>			<u>Meth: 191.30 PPM</u>			<u>Meth: 202.30 PPM</u>			<u>Meth: 221.00 PCT</u>			<u>Meth: 221.XX PCT</u>		
<u>Water Soluble Chlori</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>		
<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>					
Avg	9.86		Avg	64.17		232	15.50	1.05	457	0.0016	.81	423	0.0038	2.71
423	9.14	-1.41	037	59.40	-.28	009	14.45	.82	105	0.0015	.67	433	0.0032	1.92
			255	30.66	-1.94	057	14.18	.76	Avg	0.0014		460	0.0031	X 1.78
<u>Meth: 190.XX PCT</u>			<u>027 25.21 -2.26</u>			<u>450 13.70 .66</u>			<u>136 0.0011 -1.18</u>			<u>041 0.0020 R 1.40</u>		
<u>Water Soluble Chlori</u>			<u>035 38.04 R -2.35</u>			<u>037 11.64 .20</u>						<u>095 0.0024 .78</u>		
457	11.00	2.37				393	11.48	.16	<u>Meth: 221.30 PCT</u>			<u>035 0.0019 .35</u>		
368	10.45	R 1.36	<u>Meth: 191.99 PPM</u>			<u>035 11.15 .09</u>			<u>Acid Soluble Copper</u>			<u>402 0.0020 .27</u>		
105	10.10	.66	<u>Chromium</u>			<u>Avg 10.76</u>			<u>ICP</u>			<u>Avg 0.0018</u>		
009	9.93	.35	<u>Other</u>			<u>102 8.65 -.47</u>			<u>423 0.0038 s 3.75</u>			<u>393 0.0017 -.09</u>		
300	9.91	.30	<u>231 42.86 .71</u>			<u>247 6.90 -.86</u>			<u>433 0.0032 2.72</u>			<u>247 0.0017 -.18</u>		
028	9.86	.20				<u>368 0.00 -2.38</u>			<u>041 0.0020 R 1.88</u>			<u>324 0.0017 -.20</u>		
Avg	9.75		<u>Meth: 191.XX PPM</u>			<u>Meth: 202.99 PPM</u>			<u>095 0.0024 1.21</u>			<u>220 0.0017 -.22</u>		
220	9.74	-.03	<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>402 0.0020 .55</u>			<u>232 0.0016 -.32</u>		
102	9.72	-.06	<u>220 78.50 .86</u>			<u>Other</u>			<u>035 0.0019 .53</u>			<u>457 0.0016 -.32</u>		
460	9.65	-.22	<u>368 76.60 .75</u>			<u>231 6.68 .71</u>			<u>324 0.0017 .21</u>			<u>057 0.0015 -.37</u>		
397	9.75	-.26	<u>009 75.40 .67</u>			<u>Meth: 202.XX PPM</u>			<u>393 0.0017 .09</u>			<u>102 0.0016 -.40</u>		
043	9.45	-.58	<u>419 74.50 .65</u>			<u>Acid Soluble Cobalt</u>			<u>Avg 0.0017</u>			<u>105 0.0015 -.53</u>		
423	9.14	-1.18	<u>450 73.50 .57</u>			<u>136 21.50 1.93</u>			<u>247 0.0017 -.05</u>			<u>231 0.0014 -.55</u>		
023	8.79	-1.84	<u>393 73.14 .54</u>			<u>232 15.50 .80</u>			<u>057 0.0015 -.28</u>			<u>009 0.0014 -.58</u>		
			<u>247 73.00 .54</u>			<u>009 14.45 .59</u>			<u>102 0.0016 -.37</u>			<u>368 0.0013 -.76</u>		
<u>Meth: 191.00 PPM</u>			<u>096 71.00 .45</u>			<u>057 14.18 .54</u>			<u>009 0.0014 -.56</u>			<u>450 0.0015 R -.80</u>		
<u>Chromium</u>			<u>102 68.50 .35</u>			<u>450 13.70 .46</u>			<u>368 0.0013 -.79</u>			<u>136 0.0011 -1.04</u>		
<u>Atomic Absorption</u>			<u>232 69.10 .33</u>			<u>037 11.64 .07</u>			<u>450 0.0015 -.96</u>			<u>405 0.0011 -1.04</u>		
220	78.50	.71	<u>Avg 63.67</u>			<u>393 11.48 .05</u>			<u>405 0.0011 -1.16</u>			<u>300 0.0010 -1.10</u>		
			<u>037 59.40 -.25</u>			<u>Avg 11.32</u>			<u>300 0.0010 -1.24</u>			<u>Meth: 241.00 PCT</u>		
<u>Meth: 191.30 PPM</u>			<u>231 42.86 -1.20</u>			<u>035 11.15 -.03</u>			<u>Meth: 221.99 PCT</u>			<u>Acid Soluble Iron</u>		
<u>Chromium</u>			<u>255 30.66 -1.89</u>			<u>102 8.65 -.51</u>			<u>Acid Soluble Copper</u>			<u>Atomic Absorption</u>		
<u>ICP</u>			<u>027 25.21 -2.21</u>			<u>247 6.90 -.83</u>			<u>Other</u>					
368	76.60	.73	<u>035 38.04 R -2.31</u>			<u>231 6.68 -.88</u>			<u>460 0.0031 X 1.28</u>			<u>220 1.18 1.32</u>		
009	75.40	.65	<u>Meth: 202.00 PPM</u>			<u>368 0.00 -2.14</u>			<u>Avg 0.0021</u>			<u>043 1.22 1.23</u>		
419	74.50	.63	<u>Acid Soluble Cobalt</u>			<u>Meth: 221.00 PCT</u>			<u>220 0.0017 -.49</u>			<u>040 1.11 1.07</u>		
450	73.50	.54	<u>AA</u>			<u>Acid Soluble Copper</u>			<u>231 0.0014 -.79</u>			<u>105 1.15 .90</u>		
393	73.14	.52	<u>136 21.50 .71</u>			<u>Atomic Absorption</u>						<u>177 1.14 .76</u>		
247	73.00	.51				<u>043 0.0100 S 33.04</u>						<u>457 1.11 .40</u>		
096	71.00	.43										<u>055 1.08 .36</u>		
102	68.50	.33										<u>296 1.10 .36</u>		
232	69.10	.31										<u>034 1.06 .04</u>		

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.00 PCT			Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 251.00 PPM			Meth: 251.XX PPM		
Acid Soluble Iron			Acid Soluble Iron			Acid Soluble Iron			Lead			Lead		
<u>Atomic Absorption</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>		
Avg	1.05		255	0.98	-.75	354	1.08	.25	220	13.00	-1.28	231	14.59	-.43
028	0.99	-.56	368	1.02	-.87	096	1.07	.12				027	14.28	-.46
371	0.96	-.69	041	0.98	-1.01	042	1.06	.10				009	14.85	-.51
397	0.97	-.72	023	0.96	-1.27	Avg	1.06		Meth: 251.30 PPM			035	13.80	-.61
460	0.85	-1.53	232	0.94	-1.31	034	1.06	-.06	Lead			232	12.90	-.80
428	0.84	-1.91	419	0.92	-1.62	035	1.05	-.13	<u>ICP</u>			220	13.00	-.81
			114	0.92	-1.74	432	1.05	-.13	419	21.00 s	2.96	255	9.07	-1.73
			402	0.64 s	-5.25	426	1.04	-.14	368	16.70	1.09			
Meth: 241.30 PCT			247 0.55 s -6.45			027 1.04 -.19			450 16.50 .99			Meth: 261.00 PCT		
Acid Soluble Iron						324 1.04 -.23			009 14.85 R .76			Acid Soluble Mangane		
<u>ICP</u>						423 1.04 -.23			102 15.80 .67			<u>AA</u>		
405	1.45 s	5.44	Meth: 241.99 PCT			009 1.02 -.45			037 14.89 .27			258	0.320	1.37
090	1.32 s	3.84	Acid Soluble Iron			117 1.03 -.50			393 14.73 .19			220	0.315	1.33
131	1.25 A	2.89	<u>Other</u>			057 1.00 -.56			Avg 14.30			397	0.311	.83
433	1.25	2.75	234	1.23	-.71	231 1.00 -.60			027 14.28 -.03			028	0.313	.73
330	1.15	1.62	Meth: 241.XX PCT			393 0.99 -.72			035 13.80 -.41			351	0.310	.50
360	1.14	1.50	<u>Acid Soluble Iron</u>			291 0.99 -.72			232 12.90 -.63			055	0.305	.37
102	1.09	.99	405	1.45 A	3.87	368 1.02 -.74			255 9.07 -2.28			Avg	0.303	
450	1.09	.87	090	1.32	2.68	255 0.98 -.76			Meth: 251.99 PPM			460	0.300	-.21
095	1.09	.72	131	1.25	1.97	028 0.99 -.77			Lead			043	0.297	-.51
390	1.07	.70	433	1.25	1.87	041 0.98 -.91			<u>Other</u>			105	0.295	-.69
409	1.08	.62	220	1.18 R	1.69	371 0.96 -.96			409 17.40 .80			296	0.291	-.97
354	1.08	.56	234	1.23	1.66	397 0.97 -.99			Avg 15.99			457	0.300	-1.40
096	1.07	.43	043	1.22	1.56	023 0.96 -1.11			231 14.59 -.93			177	0.280	-1.60
042	1.06	.32	040	1.11 R	1.38	232 0.94 -1.18			Meth: 251.XX PPM			Meth: 261.30 PCT		
035	1.05	.12	105	1.15	1.14	419 0.92 -1.41			Lead			Acid Soluble Mangane		
432	1.05	.12	330	1.15	1.04	114 0.92 -1.48			136 24.50 2.08			<u>ICP</u>		
426	1.04	.11	177	1.14	.96	460 0.85 -2.05			457 24.32 2.00			041	0.335 S	2.59
027	1.04	.04	360	1.14	.95	428 0.84 R -2.53			419 21.00 1.21			354	0.341 R	2.34
Avg	1.04		102	1.09	.62	402 0.64 s -4.13			409 17.40 .31			432	0.320	1.39
423	1.04	-.07	450	1.09	.51	247 0.55 s -5.03			368 16.70 .22			057	0.318	1.19
324	1.04	-.07	457	1.11	.47	Meth: 251.00 PPM			450 16.50 .15			423	0.316	1.10
009	1.02	-.36	055	1.08	.45	Lead			Avg 16.15			114	0.315	1.09
057	1.00	-.48	390	1.07	.45	<u>Atomic Absorption</u>			102 15.80 -.11			360	0.313	.98
117	1.03	-.56	296	1.10	.42	136	24.50	.70	037 14.89 -.31			027	0.313	.95
231	1.00	-.56	095	1.09	.35	457	24.32	.62	393 14.73 -.35			090	0.310	.84
393	0.99	-.69	409	1.08	.30	Avg	20.61					368	0.300 R	.75
291	0.99	-.70												

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 261.30 PCT			Meth: 261.XX PCT			Meth: 261.XX PCT			Meth: 289.30 PPM			Meth: 291.00 PPM		
Acid Soluble Manganese			Acid Soluble Manganese			Acid Soluble Manganese			Molybdenum			Nickel		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>		
247	0.306	.63	041	0.335 s	2.78	035	0.281	-1.00	247	10.50	1.71	136	37.00	.70
102	0.300	.50	354	0.341	2.41	177	0.280	-1.03	450	10.00	1.50	457	37.10	.65
131	0.298	.46	258	0.320	1.30	291	0.269	-1.62	419	9.65	.87	Avg	35.20	
450	0.300	.37	432	0.320	1.30	096	0.260	-2.11	232	9.05	.40	220	31.50	-1.26
009	0.298	.26	220	0.315	1.22	393	0.259	-2.16	368	9.00	.28	Meth: 291.30 PPM		
Avg	0.292		457	0.300 R	1.10	426	0.260	-2.17	057	8.70	.09	Nickel		
232	0.291	-.08	057	0.318	1.04	402	0.239 A	-3.28	Avg	8.70		<u>ICP</u>		
042	0.290	-.10	114	0.315	.94	023	0.234 s	-3.62	035	8.32	-.44	419	36.00	1.23
419	0.290	-.10	034	0.315	.94	300	0.145 s	-8.44	102	8.66	-.67	368	35.75	.97
231	0.290	-.10	423	0.316	.93	Meth: 271.30 PCT			255	7.95	-.76	247	35.50	.89
433	0.291	-.18	397	0.311	.84	Water Soluble Mangan			393	7.77	-.85	450	35.00	.71
095	0.289	-.27	028	0.313	.81	<u>ICP</u>			037	7.64	-.97	102	33.03	.36
390	0.291	-.52	360	0.313	.80	432	0.070	-.71	009	7.10	-1.56	Avg	32.87	
035	0.281	-.56	368	0.300	.77	Meth: 281.30 PPM			Meth: 289.99 PPM			035	32.25	-.43
291	0.269	-1.08	027	0.313	.77	Mercury			Molybdenum			232	32.55	-.53
096	0.260	-1.50	351	0.310	.64	<u>ICP</u>			<u>Other</u>			009	31.45	-1.03
393	0.259	-1.54	090	0.310	.63	393	2.89 X	.87	231	6.73	.71	393	29.32	-1.18
426	0.260	-1.56	055	0.305	.45	Avg	1.45		Meth: 289.XX PPM			037	27.89	-1.65
402	0.239	-2.49	102	0.300	.40	450	0.00	-.87	<u>Molybdenum</u>			027	10.15 s	-7.54
023	0.234 S	-2.79	247	0.306	.38	Meth: 281.99 PPM			433	13.35 s	4.06	Meth: 291.99 PPM		
300	0.145 s	-6.89	037	0.300	.25	Mercury			247	10.50	1.69	Nickel		
Meth: 261.31 PCT			450	0.300	.08	<u>Other</u>			450	10.00	1.48	<u>Other</u>		
Acid Soluble Manganese			460	0.300	.08	220	0.02	.71	419	9.65	.93	231	18.34 S	.00
<u>ICP</u>			Avg	0.299		Meth: 281.XX PPM			102	8.66	.62	Meth: 291.XX PPM		
324	0.293	.71	009	0.298	-.10	Mercury			232	9.05	.47	Nickel		
Meth: 261.99 PCT			043	0.297	-.22	<u>Mercury</u>			368	9.00	.38	<u>Nickel</u>		
Acid Soluble Manganese			324	0.293	-.31	393	2.89 X	1.29	057	8.70	.16	136	37.00	1.20
<u>Other</u>			105	0.295	-.39	Avg	0.97		Avg	8.54		457	37.10	1.19
034	0.315	1.19	232	0.291	-.43	220	0.02	-.64	035	8.32	-.32	419	36.00	1.05
Avg	0.302		255	0.292	-.43	450	0.00	-.65	255	7.95	-.59	368	35.75	.77
037	0.300	-.44	131	0.298	-.44	Meth: 289.30 PPM			393	7.77	-.65	247	35.50	.69
255	0.292	-.94	042	0.290	-.47	Molybdenum			037	7.64	-.77	450	35.00	.51
Meth: 261.30 PCT			231	0.290	-.47	<u>ICP</u>			009	7.10	-1.31	Avg	33.41	
Acid Soluble Manganese			419	0.290	-.47	433	13.35 s	4.28	231	6.73	-1.61	102	33.03	-.36
<u>Other</u>			433	0.291	-.48	Meth: 289.30 PPM			Meth: 289.30 PPM			035	32.25	-.53
034	0.315	1.19	296	0.291	-.57	Molybdenum			Molybdenum					
Avg	0.302		095	0.289	-.60	<u>ICP</u>			<u>ICP</u>					
037	0.300	-.44	390	0.291	-.73	433			433					
255	0.292	-.94												

* 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: 291.XX PPM</u>			<u>Meth: 311.99 PCT</u>			<u>Meth: 321.30 PCT</u>			<u>Meth: 321.30 PCT</u>			<u>Meth: 321.XX PCT</u>		
<u>Nickel</u>			<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
232	32.55	- .57	<u>Other</u>			<u>ICP</u>			<u>ICP</u>			433	0.236	.23
220	31.50	- .64	035	0.35	.88	432	0.560 s	19.16	247	0.002 s	-13.80	423	0.236	.08
009	31.45	-1.09	009	0.35	.74	330	0.300 S	3.80	<u>Meth: 321.99 PCT</u>			Avg	0.235	
393	29.32	-1.32	232	0.35	.29	368	0.264 S	3.32	<u>Acid Soluble Zinc</u>			009	0.235	- .16
037	27.89	-1.78	Avg	0.35		255	0.278 R	2.61	<u>Other</u>			296	0.234	- .18
231	18.34 s	-4.85	102	0.34	- .52	057	0.265	1.76	231	0.240	.97	371	0.232	- .19
027	10.15 s	-7.49	423	0.32	-1.69	042	0.265	1.75	Avg	0.231		402	0.230	- .35
<u>Meth: 301.30 PPM</u>			<u>Meth: 311.XX PCT</u>			090	0.260	1.43	220	0.221	- .75	037	0.234	- .40
<u>Selenium</u>			<u>Sodium</u>			354	0.256	1.23	<u>Meth: 321.XX PCT</u>			351	0.229	- .41
<u>ICP</u>			057	0.36	.88	292	0.250	.84	<u>Acid Soluble Zinc</u>			397	0.228	- .45
368	5.50	1.14	035	0.35	.72	426	0.250	.84	432	0.560 s	21.26	131	0.229	- .46
Avg	2.68		009	0.35	.65	360	0.250	.82	330	0.300 s	4.26	232	0.228	- .51
393	2.54 X	- .19	232	0.35	.50	114	0.245	.62	368	0.264 s	3.71	105	0.228	- .60
450	0.00	-1.08	102	0.34	.38	027	0.246	.61	255	0.278 R	2.95	220	0.225	- .72
<u>Meth: 301.99 PPM</u>			Avg	0.34		390	0.238	.61	057	0.265	2.01	041	0.230	- .72
<u>Selenium</u>			423	0.32	- .66	102	0.245	.54	042	0.265	2.00	460	0.224	- .74
<u>Other</u>			450	0.28	-1.99	095	0.242	.44	200	0.260	1.77	096	0.222	- .94
231	1.92	.71	<u>Meth: 321.00 PCT</u>			324	0.242	.43	090	0.260	1.65	220	0.221	- .96
<u>Meth: 301.XX PPM</u>			<u>Acid Soluble Zinc</u>			419	0.240	.25	200	0.260	1.77	300	0.220	- .97
<u>Selenium</u>			<u>Atomic Absorption</u>			423	0.236	.02	090	0.260	1.65	457	0.215	-1.33
368	5.50	1.40	200	0.260 s	3.49	Avg	0.236		354	0.256	1.42	291	0.214	-1.39
393	2.54 X	.21	055	0.245	1.67	009	0.235	- .16	292	0.250	.99	023	0.212	-1.55
Avg	2.49		028	0.237	.95	433	0.236	- .21	426	0.250	.99	035	0.211	-1.58
231	1.92	- .37	028	0.237	.95	450	0.235	- .30	360	0.250	.97	405	0.210	-1.62
450	0.00	-1.16	177	0.239	.91	402	0.230	- .37	114	0.245	.74	409	0.200	-2.27
<u>Meth: 311.30 PCT</u>			043	0.239	.91	037	0.234	- .37	055	0.245	.74	117	0.173 s	-4.13
<u>Sodium</u>			043	0.239	.91	131	0.229	- .46	231	0.240	.74	393	0.138 s	-6.36
<u>Flame Photometric</u>			258	0.235	.71	232	0.228	- .51	027	0.246	.73	247	0.002 s	-15.21
450	0.28	.71	296	0.234	.38	041	0.230	- .68	390	0.238	.69	<u>Meth: 325.30 PCT</u>		
<u>Meth: 311.99 PCT</u>			371	0.232	.14	096	0.222	- .90	102	0.245	.65	<u>Water Soluble Zinc</u>		
<u>Sodium</u>			Avg	0.231		300	0.220	- .93	095	0.242	.54	<u>ICP</u>		
<u>Other</u>			351	0.229	- .34	291	0.214	-1.31	324	0.242	.53	432	0.310	.71
057	0.36	.98	397	0.228	- .40	023	0.212	-1.45	028	0.237	.44			
			105	0.228	- .79	035	0.211	-1.48	419	0.240	.34			
			460	0.224	- .91	405	0.210	-1.52	258	0.235	.33			
			220	0.225	- .93	409	0.200	-2.11	450	0.235	.33			
			457	0.215	-1.97	117	0.173 S	-3.78	177	0.239	.31			
						393	0.138 s	-5.80	043	0.239	.31			

* 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	7	0.00	1.00	0.28	050.60	7	0.68	2.03	0.23
001.99	14	- 0.34	1.50	0.58	050.61	8	0.00	1.03	0.09
001.XX	21	- 0.16	1.40	0.52	050.99	16	- 0.05	0.97	0.34
002.99	7	0.00	1.02	0.19	050.XX	66	0.01	1.35	0.32
002.XX	8	0.00	1.03	0.13	060.00	6	0.00	1.00	0.29
009.10	4	0.00	1.04	0.25	060.XX	7	2.34	6.26	0.42
009.XX	5	0.14	0.96	0.85	101.30	16	0.88	2.57	0.79
010.11	8	- 0.45	1.57	0.33	101.XX	18	0.78	2.44	0.76
010.12	6	4.47	10.98	12.08	121.00	15	- 0.26	1.39	0.28
010.60	54	- 0.12	1.12	0.40	121.30	36	0.79	4.60	0.36
010.99	4	- 1.25	2.65	0.97	121.XX	53	0.44	2.97	0.28
010.XX	70	0.02	2.18	2.03	131.00	2	0.00	0.41	0.82
020.10	5	0.00	1.00	0.33	131.30	2	0.00	1.18	0.23
020.20	20	- 0.11	1.83	0.49	131.XX	5	- 0.20	1.03	0.42
020.40	7	0.01	0.94	0.41	144.01	18	0.28	1.39	0.46
020.50	11	0.00	0.92	0.43	144.99	24	- 0.16	1.34	0.23
020.99	3	9.98	17.30	0.30	144.XX	43	- 0.17	1.34	0.24
020.XX	44	0.14	1.83	0.44	151.30	9	0.53	1.85	1.00
030.20	2	0.00	1.21	0.12	151.99	3	0.00	0.68	0.73
030.40	2	0.00	1.21	0.13	151.XX	13	0.36	1.55	0.87
030.XX	5	0.61	1.65	0.16	165.00	9	- 0.100	0.984	0.426
040.10	2	0.00	1.22	0.00	165.99	19	3.490	14.735	1.506
040.20	2	0.00	1.02	0.48	165.XX	28	2.221	11.591	1.213
040.40	2	0.00	1.22	0.05	171.99	2	0.000	1.078	0.411
040.XX	7	- 0.06	0.97	0.27	171.XX	3	0.000	0.994	0.418
041.10	9	0.00	0.98	0.30	181.00	3	0.00	1.07	0.26
041.20	2	0.00	1.19	0.21	181.30	11	0.36	1.49	0.34
041.40	3	0.00	1.12	0.06	181.99	2	0.00	0.77	0.67
041.50	12	- 0.93	2.35	0.25	181.XX	16	0.00	0.99	0.21
041.60	10	0.33	1.39	0.40	190.00	9	0.42	1.45	0.14
041.99	2	0.00	0.36	0.83	190.99	4	0.00	1.05	0.21
041.XX	31	- 0.15	1.44	0.38	190.XX	13	0.10	1.04	0.14
048.20	2	0.00	1.22	0.05	191.30	13	- 0.12	1.06	0.51
048.XX	3	0.00	1.11	0.08	191.XX	15	- 0.10	1.05	0.47
050.00	15	0.13	1.07	0.31	202.30	10	0.00	1.03	0.06
050.10	2	- 42.66	60.33	0.53	202.XX	12	0.00	1.02	0.05
050.30	7	0.00	1.00	0.26	221.00	4	8.2058	16.433	1.9228
050.50	5	0.45	1.34	0.68	221.30	17	0.2528	1.2866	0.5145
050.51	10	0.12	1.03	0.23	221.99	3	0.0000	1.1139	0.0783

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
221.XX	24	0.4625	2.4827	0.4368					
241.00	14	0.00	0.88	0.50					
241.30	35	0.01	2.06	0.43					
241.XX	50	- 0.11	1.44	0.44					
251.00	3	0.00	1.10	0.17					
251.30	11	0.29	1.26	0.31					
251.99	2	0.00	1.12	0.35					
251.XX	16	0.00	1.00	0.19					
261.00	12	0.000	0.792	0.619					
261.30	30	- 0.166	1.729	0.404					
261.99	3	0.000	1.020	0.374					
261.XX	46	- 0.287	1.706	0.462					
281.30	2	0.00	1.22	0.02					
281.XX	3	0.00	1.12	0.02					
289.30	13	0.33	1.48	0.42					
289.XX	14	0.29	1.40	0.40					
291.00	3	0.00	1.08	0.22					
291.30	11	- 0.69	2.43	0.41					
291.XX	15	- 0.82	2.39	0.36					
301.30	3	0.00	1.11	0.11					
301.XX	4	0.00	1.06	0.17					
311.99	6	0.00	0.88	0.52					
311.XX	7	0.00	0.99	0.29					
321.00	14	0.235	1.241	0.527					
321.30	37	0.103	4.266	0.558					
321.99	2	0.000	0.941	0.554					
321.XX	52	0.104	3.984	0.552					