

- Pass 1 Results for 87 Labs - - Pass 2 Results for 87 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	1	0.07	0.01	0.01	1	0.07	0.01	0.01
Ammoniacal Nitrogen, Other		001.99	2	0.56	0.63	0.01	2	0.56	0.63	0.01
Method Group 001.XX PCT			3	0.39	0.55	0.01	3	0.39	0.55	0.01
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Total Nitrogen, Modified Comprehensive	978.02	010.11	8	12.04	1.04	0.08	9	11.78	1.23	0.08
Total Nitrogen, Salicylic	955.04D	010.12	5	14.93	0.47	0.13	5	14.93	0.47	0.13
Total Nitrogen, Comprehensive	970.02	010.17	1	12.85	0.08	0.11	1	12.85	0.08	0.11
Total Nitrogen, Combustion		010.60	55	15.20	0.19	0.07	52	15.20	0.19	0.06
Total Nitrogen, Other		010.99	4	13.34	1.33	0.09	5	12.67	1.83	0.07
Method Group 010.XX PCT			78	14.56	1.35	0.08	72	14.68	1.19	0.07
Total Phosphate, Grav Quimociac	962.02	020.10	7	47.19	1.29	0.57	6	47.39	1.20	0.33
Total Phosphate, Spectrometric	958.01	020.20	18	46.97	2.10	0.44	17	47.12	2.04	0.33
Total Phosphate, Automated	978.01	020.40	5	47.82	0.28	0.15	5	47.82	0.28	0.15
Total Phosphate, ICP		020.50	8	46.44	1.34	0.66	8	46.44	1.34	0.66
Total Phosphate, Other		020.99	1	44.96	0.01	0.01	1	44.96	0.01	0.01
Method Group 020.XX PCT			40	46.96	1.70	0.52	36	47.12	1.63	0.33
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	1.00	0.02	0.03	1	1.00	0.02	0.03
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	1.54	0.00	0.00	1	1.54	0.00	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	2.07	0.12	0.03	2	2.07	0.12	0.03
Insoluble Phosphate, ICP		030.50	1	0.95	0.01	0.02	1	0.95	0.01	0.02
Insoluble Phosphate, Other		030.99	1	1.14	0.00	0.00	1	1.14	0.00	0.00
Method Group 030.XX PCT			6	1.46	0.49	0.02	6	1.46	0.49	0.02
InDir Available Phosphate, Grav Quim	960.02	040.10	1	47.08	0.03	0.04	1	47.08	0.03	0.04
InDir Available Phosphate, Spectrometri	960.02	040.20	1	47.74	0.02	0.03	1	47.74	0.02	0.03
InDir Available Phosphate, Automated	960.02	040.40	3	45.45	0.64	0.07	3	45.45	0.64	0.07
InDir Available Phosphate, ICP		040.50	1	45.08	0.68	0.96	1	45.08	0.68	0.96
InDir Available Phosphate, Other		040.99	1	46.46	0.21	0.30	1	46.46	0.21	0.30
Method Group 040.XX PCT			7	46.10	1.06	0.22	6	46.27	1.04	0.10
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	13	46.25	1.16	0.23	12	46.30	1.19	0.19
Dir Available Phosphate, Spectrometric	960.03D	041.20	2	45.82	0.45	0.32	2	45.82	0.45	0.32
Dir Available Phosphate, Automated	978.01	041.40	5	45.52	0.98	0.15	5	45.52	0.98	0.15
Dir Available Phosphate, ICP		041.50	12	45.91	1.40	0.36	12	45.91	1.40	0.36
Dir Available Phosphate, EDTA Extract	993.01	041.60	10	47.20	1.21	0.19	10	47.20	1.21	0.19
Dir Available Phosphate, Other		041.99	1	46.78	0.08	0.11	1	46.78	0.08	0.11
Method Group 041.XX PCT			43	46.28	1.30	0.25	40	46.32	1.33	0.20
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	43.30	2.22	0.11	3	43.30	2.22	0.11
Water Soluble Phosphate, Other		048.99	1	42.75	0.13	0.19	1	42.75	0.13	0.19
Method Group 048.XX PCT			4	43.16	1.90	0.13	4	43.16	1.90	0.13
Soluble Potash, STPB Citrate	969.04	050.10	1	0.29	0.08	0.12	1	0.29	0.08	0.12

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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, AA (Oxalate)		050.30	1	0.15	0.01	0.02	1	0.15	0.01	0.02
Soluble Potash, ICP (Oxalate)		050.50	4	0.11	0.06	0.00	4	0.11	0.06	0.00
Soluble Potash, ICP (Citrate)		050.51	1	0.92	0.02	0.03	1	0.92	0.02	0.03
Soluble Potash, Other		050.99	1	0.10	0.04	0.05	1	0.10	0.04	0.05
Method Group 050.XX PCT			8	0.24	0.28	0.03	7	0.23	0.30	0.01
Free Water, Vacuum Oven	965.08B	060.00	4	1.01	0.81	0.03	4	1.01	0.81	0.03
Acid Soluble Calcium, AA	945.04	101.00	14	16.42	1.43	0.31	14	16.42	1.43	0.31
Acid Soluble Calcium, ICP		101.30	32	17.04	1.25	0.27	31	17.04	1.27	0.24
Acid Soluble Calcium, Other		101.99	2	16.74	0.73	0.92	2	16.74	0.73	0.92
Method Group 101.XX PCT			48	16.85	1.31	0.31	46	16.85	1.33	0.26
Acid Soluble Magnesium, AA	984.01	121.00	15	0.62	0.06	0.02	15	0.62	0.06	0.02
Acid Soluble Magnesium, ICP		121.30	35	0.61	0.03	0.01	33	0.61	0.03	0.01
Acid Soluble Magnesium, Titrimetric	964.01	121.70	1	0.65	0.00	0.00	1	0.65	0.00	0.00
Acid Soluble Magnesium, Other		121.99	2	0.56	0.05	0.07	2	0.56	0.05	0.07
Method Group 121.XX PCT			54	0.62	0.05	0.02	52	0.62	0.05	0.01
Water Soluble Magnesium, AA		131.00	3	0.61	0.07	0.03	3	0.61	0.07	0.03
Water Soluble Magnesium, ICP		131.30	2	0.72	0.33	0.02	2	0.72	0.33	0.02
Water Soluble Magnesium, Titrimetric		131.70	1	0.59	0.01	0.01	1	0.59	0.01	0.01
Method Group 131.XX PCT			6	0.64	0.19	0.02	5	0.65	0.20	0.01
Sulfur, Gravimetric	980.02a	144.01	16	1.07	0.06	0.02	16	1.07	0.06	0.02
Sulfur, Gravimetric	980.02b	144.02	2	1.02	0.02	0.02	2	1.02	0.02	0.02
Sulfur, Other		144.99	25	1.06	0.11	0.03	25	1.06	0.11	0.03
Method Group 144.XX PCT			43	1.06	0.09	0.03	39	1.05	0.06	0.02
Arsenic, Atomic Absorption		151.00	2	9.23	1.20	1.45	2	9.23	1.20	1.45
Arsenic, ICP		151.30	10	7.51	3.25	0.50	10	7.51	3.25	0.50
Arsenic, Other		151.99	2	8.94	2.59	0.14	2	8.94	2.59	0.14
Method Group 151.XX PPM			14	7.96	2.98	0.59	13	7.82	3.03	0.43
Acid Soluble Boron, Other		165.99	6	0.020	0.025	0.002	6	0.020	0.025	0.002
Method Group 165.XX PCT			6	0.020	0.025	0.002	6	0.020	0.025	0.002
Cadmium, Atomic Absorption		181.00	2	16.73	0.49	0.55	2	16.73	0.49	0.55
Cadmium, ICP		181.30	14	13.81	3.23	0.42	14	13.81	3.23	0.42
Cadmium, Other		181.99	2	17.44	0.78	0.27	2	17.44	0.78	0.27
Method Group 181.XX PPM			18	14.53	3.17	0.42	18	14.53	3.17	0.42
Water Soluble Chlorine, Titrimetric	928.02	190.00	1	0.15	0.01	0.02	1	0.15	0.01	0.02
Chromium, Atomic Absorption		191.00	1	315.00	5.66	8.00	1	315.00	5.66	8.00
Chromium, ICP		191.30	11	270.49	28.13	5.00	11	270.49	28.13	5.00
Chromium, Other		191.99	2	294.55	31.30	2.94	2	294.55	31.30	2.94
Method Group 191.XX PPM			14	277.11	30.21	4.92	14	277.11	30.21	4.92
Acid Soluble Cobalt, ICP	965.11	202.30	8	1.46	0.44	0.13	8	1.46	0.44	0.13

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Acid Soluble Cobalt, Other		202.99	2	1.26	0.11	0.04	2	1.26	0.11	0.04
Method Group 202.XX PPM			11	1.60	0.70	0.12	11	1.60	0.70	0.12
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0025	0.0016	0.0000	3	0.0023	0.0019	0.0000
Acid Soluble Copper, ICP		221.30	21	0.0030	0.0015	0.0002	19	0.0028	0.0014	0.0001
Acid Soluble Copper, Other		221.99	2	0.0032	0.0004	0.0003	2	0.0032	0.0004	0.0003
Method Group 221.XX PCT			27	0.0029	0.0015	0.0002	25	0.0028	0.0014	0.0001
Acid Soluble Iron, Atomic Absorption	980.01	241.00	11	0.16	0.01	0.01	11	0.16	0.01	0.01
Acid Soluble Iron, ICP		241.30	34	0.15	0.02	0.01	32	0.15	0.02	0.01
Acid Soluble Iron, Other		241.99	2	0.12	0.01	0.01	2	0.12	0.01	0.01
Method Group 241.XX PCT			48	0.15	0.02	0.01	45	0.15	0.01	0.01
Lead, ICP		251.30	7	2.28	1.44	0.37	7	2.28	1.44	0.37
Lead, Other		251.99	2	2.31	0.40	0.37	2	2.31	0.40	0.37
Method Group 251.XX PPM			9	2.28	1.27	0.37	9	2.28	1.27	0.37
Acid Soluble Manganese, ICP	972.02a	261.30	13	3.227	6.431	0.036	11	1.638	5.296	0.000
Acid Soluble Manganese, Other		261.99	1	17.700	0.000	0.000	1	17.700	0.000	0.000
Method Group 261.XX PCT			14	4.261	7.260	0.034	12	2.976	6.795	0.000
Mercury, ICP		281.30	2	0.01	0.01	0.00	2	0.01	0.01	0.00
Molybdenum, ICP		289.30	11	3.15	0.89	0.25	10	3.02	0.80	0.17
Molybdenum, Other		289.99	2	3.93	0.59	0.22	2	3.93	0.59	0.22
Method Group 289.XX PPM			13	3.27	0.89	0.24	12	3.17	0.84	0.18
Nickel, Atomic Absorption		291.00	2	31.50	5.45	8.00	2	31.50	5.45	8.00
Nickel, ICP		291.30	9	28.73	3.90	0.85	8	28.52	4.06	0.56
Nickel, Other		291.99	1	28.75	0.07	0.10	1	28.75	0.07	0.10
Method Group 291.XX PPM			12	29.20	4.03	1.98	11	28.85	3.58	1.07
Selenium, ICP		301.30	3	0.51	0.35	0.34	3	0.51	0.35	0.34
Selenium, Other		301.99	3	1.69	0.93	0.11	3	1.69	0.93	0.11
Method Group 301.XX PPM			6	1.10	0.91	0.23	5	1.22	0.93	0.07
Sodium, Other		311.99	7	0.45	0.04	0.01	7	0.45	0.04	0.01
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	2	0.036	0.002	0.001	2	0.036	0.002	0.001
Acid Soluble Zinc, ICP		321.30	18	0.036	0.004	0.001	17	0.036	0.003	0.001
Method Group 321.XX PCT			20	0.036	0.004	0.001	19	0.036	0.003	0.001

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																				
MgO Distillation																				
372	0.07	.71													Meth: 010.12 PCT					
Total Nitrogen																				
Salicylic																				
117	15.60	1.45	025	15.26	.28													Meth: 010.60 PCT		
Total Nitrogen																				
Combustion																				
185	15.10	.39	028	15.24	.17	422	10.90 s	-22.71							Meth: 010.99 PCT					
Avg																				
254	14.93	-.10	361	15.21	.11	393	10.41 s	-25.30							Total Nitrogen					
Other																				
027	1.10	.87	096	15.21	.11													Other		
Avg																				
096	0.56	-.87	324	15.20	-.02	420	14.59	1.05							Total Nitrogen					
Meth: 010.17 PCT																				
Total Nitrogen																				
Comprehensive																				
220	12.85	.71	372	15.18	-.15	354	14.58	1.04							055	15.19	.43			
Meth: 001.XX PCT																				
Ammoniacal Nitrogen																				
027	1.10	1.29	453	15.18	-.20	Avg	13.34		027	12.13	-.30				453	15.18	.42			
Avg																				
372	0.39	-.60	136	15.17	-.21	255	12.07	-.33	255	12.07	-.33				372	15.18	.42			
Meth: 010.60 PCT																				
Total Nitrogen																				
Combustion																				
096	0.02	-.69	402	15.15	-.30	455	10.01 S	-1.46	030	9.87 S	-1.53				042	15.15 R	.42			
Meth: 005.00 PCT																				
Nitrogen From Urea																				
Urease (as N)																				
372	0.02	.00	040	15.15	-.36													292	15.17	.41
Meth: 010.11 PCT																				
Total Nitrogen																				
Modified Comprehensive																				
029	13.36	1.28	029	15.19	-.38													136	15.17	.41
Meth: 010.XX PCT																				
Total Nitrogen																				
211	13.03 X	1.01	035	15.14	-.38	325	16.20	1.28							262	15.15	.40			
Meth: 010.60 PCT																				
Total Nitrogen																				
220	12.74	.78	262	15.15	-.38	351	15.71	.87							007	15.15	.40			
Meth: 010.60 PCT																				
Total Nitrogen																				
114	12.46	.55	007	15.15	-.38	117	15.60	.78							402	15.15	.39			
Meth: 010.11 PCT																				
Total Nitrogen																				
456	12.21	.34	041	15.11	-.49	095	15.55	.73							040	15.15	.38			
Meth: 010.11 PCT																				
Total Nitrogen																				
090	11.28	-.42	390	15.10	-.54	043	15.53	.72							035	15.14	.38			
Meth: 010.60 PCT																				
Total Nitrogen																				
405	10.93	-.70	451	15.08 X	-.65	406	15.48	.67							041	15.11	.36			
Meth: 010.60 PCT																				
Total Nitrogen																				
322	10.34	-1.17	426	15.07	-.70	291	15.47	.66							185	15.10	.35			
Meth: 010.60 PCT																				
Total Nitrogen																				
309	9.73 S	-1.67	177	15.06	-.78	409	15.43 R	.65							390	15.10	.35			
Meth: 010.60 PCT																				
Total Nitrogen																				
029	13.36	1.28	042	15.15 R	-.84	425	15.41	.62							451	15.08 X	.34			
Meth: 010.60 PCT																				
Total Nitrogen																				
211	13.03 X	1.01	009	15.02	-.99	034	15.38	.59							233	15.08	.33			
Meth: 010.60 PCT																				
Total Nitrogen																				
114	12.46	.55	057	15.04	-1.04	157	15.37	.58							426	15.07	.33			
Meth: 010.60 PCT																				
Total Nitrogen																				
456	12.21	.34	443	15.02	-1.09	231	15.37	.58							177	15.06	.32			
Meth: 010.60 PCT																				
Total Nitrogen																				
090	11.28	-.42	072	15.00 R	-1.30	296	15.37	.58							057	15.04	.31			
Meth: 010.60 PCT																				
Total Nitrogen																				
405	10.93	-.70	027	14.95	-1.36	369	15.36	.58							072	15.00 R	.29			
Meth: 010.60 PCT																				
Total Nitrogen																				
322	10.34	-1.17	368	14.94	-1.46	049	15.34	.55							443	15.02	.28			
Meth: 010.60 PCT																				
Total Nitrogen																				
309	9.73 S	-1.67	023	14.93	-1.47	377	15.33	.55							009	15.02	.28			
Meth: 010.60 PCT																				
Total Nitrogen																				
029	13.36	1.28	073	14.90	-1.60	247	15.32	.54							368	14.94	.23			
Meth: 010.60 PCT																				
Total Nitrogen																				
211	13.03 X	1.01	234	14.85	-1.87	018	15.30	.52							027	14.95	.22			
Meth: 010.60 PCT																				
Total Nitrogen																				
114	12.46	.55	232	14.72	-2.58	450	15.30	.52							254	14.93	.21			
Meth: 010.60 PCT																				
Total Nitrogen																				
456	12.21	.34	131	12.87 s	-12.34	452	15.27	.50							023	14.93	.21			
Meth: 010.60 PCT																				
Total Nitrogen																				
090	11.28	-.42	102	15.26	.34	162	15.27	.50							073	14.90	.19			
Meth: 010.60 PCT																				
Total Nitrogen																				
405	10.93	-.70													234	14.85	.15			
Meth: 010.60 PCT																				
Total Nitrogen																				
322	10.34	-1.17													397	14.75	.07			
Meth: 010.60 PCT																				
Total Nitrogen																				
309	9.73 S	-1.67																		

* 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
Meth: 010.XX PCT											
Total Nitrogen											
232	14.72	.04									
Avg	14.68										
420	14.59	-.08									
354	14.58	-.10									
416	14.26	-.37									
029	13.36	-1.11									
211	13.03 X	-1.39									
131	12.87	-1.53									
220	12.85	-1.54									
220	12.74 R	-1.64									
114	12.46	-1.87									
444	12.30	-2.01									
456	12.21	-2.08									
027	12.13	-2.15									
255	12.07	-2.20									
090	11.28	-2.86									
405	10.93	-3.16									
422	10.90	-3.18									
393	10.41 A	-3.60									
322	10.34 A	-3.65									
455	10.01 s	-3.93									
030	9.87 s	-4.05									
309	9.73 s	-4.16									
Meth: 020.20 PCT											
Total Phosphate											
420	51.64	2.22									
428	49.09	.97									
406	48.35	.60									
372	48.29	.57									
220	48.09	.47									
371	47.84	.35									
416	47.79	.33									
450	47.70	.30									
369	47.41	.16									
425	47.30	.09									
262	47.20	.04									
Avg	47.12										
232	46.43	-.34									
030	45.82	-.65									
234	45.76	-.67									
451	45.83 X	-.72									
324	44.40	-1.37									
193	44.48 R	-1.42									
309	42.13	-2.45									
Meth: 020.40 PCT											
Total Phosphate											
456	48.14	1.14									
409	48.06	.87									
Avg	47.82										
096	47.81	-.07									
247	47.60	-.94									
035	47.49	-1.24									
042	47.00 s	-6.09									
Automated											
157	48.29	.95									
090	48.08	.57									
057	47.96	.47									
114	47.83	.37									
Avg	47.39										
041	47.16	-.20									
117	45.97 R	-1.46									
405	45.03	-1.97									
Meth: 020.50 PCT											
Total Phosphate											
444	48.20	1.31									
402	47.65	.91									
426	47.54	.85									
Meth: 020.99 PCT											
Total Phosphate											
453	46.85	.41									
Avg	46.44										
255	46.02	-.47									
422	45.59	-.65									
390	45.15	-.98									
330	44.55	-1.57									
Meth: 020.XX PCT											
Total Phosphate											
425	47.30	.12									
262	47.20	.05									
041	47.16	.04									
Avg	47.12										
453	46.85	-.28									
232	46.43	-.43									
255	46.02	-.73									
030	45.82	-.82									
234	45.76	-.84									
451	45.83 X	-.91									
042	47.00 R	-.92									
422	45.59	-.94									
117	45.97 R	-.95									
390	45.15	-1.22									
405	45.03	-1.29									
455	44.96	-1.33									
330	44.55 R	-1.67									
324	44.40	-1.72									
193	44.48 R	-1.77									
309	42.13	-3.07									
443	36.14 s	-6.75									
Meth: 030.10 PCT											
Insoluble Phosphate											
090	1.00	.71									
Meth: 030.20 PCT											
Insoluble Phosphate											
090	1.00	.71									
Meth: 030.20 PCT											
Insoluble Phosphate											
220	1.54	.00									
Meth: 030.40 PCT											
Insoluble Phosphate											
409	2.17	.87									
Avg	2.07										
096	1.96	-.86									

* 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							
Meth: 040.50 PCT																		
InDir Available Phos																		
ICP			Meth: 041.60 PCT															
255	45.08	.71	Dir Available Phosph			Meth: 041.20 PCT												
Spectrometric																		
231	46.15	.76	EDTA Extract	043	47.83	.52	Dir Available Phosph			Meth: 041.60 PCT								
Avg																		
055	45.48	-.96	Avg	034	47.58	.38	EDTA Extract	043	47.83	.52	Dir Available Phosph							
397	19.55 S	-58.75	037	47.20			Avg	037	47.09	-.12	EDTA Extract							
Meth: 040.99 PCT																		
InDir Available Phos																		
Other			073	47.03	-.14	037	47.09	-.12	073	47.03	-.14							
247	46.46	.71	Meth: 041.40 PCT	351	46.99	-.19	049	46.57	-.52	057	46.36							
Dir Available Phosph																		
Automated			057	46.36	-.69	177	44.74	-2.03	Meth: 041.99 PCT									
072	46.86	1.37	095	46.15	.65	Meth: 041.99 PCT												
095	46.15	.65	Avg	45.52		Dir Available Phosph												
090	47.08	.78	131	45.50	-.02	Other												
247	46.46	.23	025	44.83	-.70	200 46.78 .71												
Avg	46.27		029	44.25	-1.30	Avg 46.78												
409	45.89	-.38	Meth: 041.50 PCT															
096	45.85	-.41	Dir Available Phosph															
255	45.08 R	-1.24	ICP	360	48.10	1.56	Meth: 041.20 PCT											
027	44.63	-1.59	354	47.44	1.08	Dir Available Phosph												
Meth: 041.10 PCT																		
Dir Available Phosph																		
Grav Quinociac			043	47.26	.96	Meth: 041.20 PCT												
211	48.13	1.53	452	46.59	.48	Dir Available Phosph												
136	47.65	1.13	454	46.15	.44	ICP												
233	47.51	1.01	023	46.25	.24	360 48.10 1.34												
072	47.13	.70	377	46.15	.20	043 47.83 1.13												
057	46.82	.44	Avg	45.91		136 47.65 1.00												
055	46.47	.23	007	45.85	-.32	034 47.58 .97												
177	46.34	.08	325	45.35	-.51	233 47.51 .89												
Avg	46.30		009	44.31	-1.15	354 47.44 .84												
040	45.93	-.39	291	44.11	-1.28	043 47.26 .70												
009	45.69 R	-.61	361	43.43	-1.77	072 47.13 .61												
131	45.55	-.63	Meth: 041.60 PCT															
029	45.02	-1.08	Dir Available Phosph															
102	44.55	-1.47	EDTA Extract	018	49.25	2.20	Meth: 041.20 PCT											
254	44.50	-1.51	028	48.55	1.69	Dir Available Phosph												
Spectrometric																		
018	49.25	1.69	211	48.13	1.36	Meth: 041.20 PCT												
028	48.55	1.14	360	48.10	1.34	Dir Available Phosph												
Meth: 048.99 PCT																		
Water Soluble Phosph																		
Other			043	47.83	1.13	Meth: 041.20 PCT												
247	42.75	-.71	136	47.65	1.00	Dir Available Phosph												
Spectrometric																		
420	45.64	1.30	034	47.58	.97	Meth: 041.20 PCT												
096	43.58	.23	233	47.51	.89	Water Soluble Phosph												
Avg	43.16		354	47.44	.84	Spectrometric												
247	42.75	-.23	043	47.26	.70	420 45.64 1.05												
372	40.69	-1.30	072	47.13	.61	420 45.64 1.05												
Meth: 050.10 PCT																		
Soluble Potash																		
STPB Citrate			037	47.09	.58	Meth: 050.50 PCT												
444	0.29	.71	073	47.03	.53	Soluble Potash												
Meth: 050.30 PCT																		
Soluble Potash																		
AA (Oxalate)			351	46.99	.51	Meth: 050.30 PCT												
450	0.15	-.71	072	46.86	.41	Soluble Potash												
Meth: 048.20 PCT																		
Water Soluble Phosph																		
Avg	0.11		057	46.82	.37	Meth: 048.20 PCT												
454	0.09	-.32	200	46.78	.34	Water Soluble Phosph												
420	0.08	-.47	055	46.47	.20	Spectrometric												
292	0.06	-.80	Meth: 048.20 PCT															
Water Soluble Phosph																		
ICP (Citrate)			420	45.64	1.05	Meth: 048.20 PCT												
453	0.92	.71	096	43.58	.13	Water Soluble Phosph												
Spectrometric																		
420	45.64	1.05	Avg	43.30		Meth: 048.20 PCT												
372	40.69	-1.18	372	40.69	-1.18	Water Soluble Phosph												

* 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: 121.30 PCT																	
Acid Soluble Magnesi																	
ICP			Meth: 121.99 PCT														
354	0.63	.60	Acid Soluble Magnesi														
027	0.63	.55	Other			296	0.60	-.34	Meth: 121.70 PCT								
131	0.62	.52	042	0.58	1.05	233	0.60	-.36	Water Soluble Magnes								
102	0.63	.45	Avg	0.56		292	0.60	-.38	ICP								
324	0.63	.43	234	0.54	-.63	193	0.61	-.44	230								
409	0.63	.43	Meth: 121.70 PCT														
420	0.62	.30	Acid Soluble Magnesi														
057	0.62	.18	247	1.03 s	9.02	450	0.62	-.55	230								
023	0.62	.18	117	0.74	2.72	360	0.60	-.59	Avg								
037	0.62	.14	200	0.73	2.39	433	0.59	-.60	452								
Avg	0.61		041	0.70	1.85	454	0.59	-.69	232								
426	0.61	-.02	309	0.70	1.84	114	0.59	-.72	Meth: 131.70 PCT								
292	0.60	-.35	028	0.67	1.17	361	0.59	-.72	Water Soluble Magnes								
233	0.60	-.36	231	0.67	1.11	291	0.59	-.72	Titrimetric								
232	0.60	-.50	090	0.67	1.07	422	0.59	-.72	372								
096	0.60	-.52	444	0.66	.98	262	0.59	-.74	0.59								
255	0.59	-.58	452	0.66	.98	055	0.59	-.78	Meth: 144.02 PCT								
433	0.59	-.65	330	0.63 R	.93	095	0.58	-.84	Sulfur								
360	0.60	-.68	397	0.66	.90	009	0.58	-.87	Gravimetric								
454	0.59	-.80	372	0.65	.73	390	0.57	-1.13	220								
361	0.59	-.82	177	0.64	.53	220	0.57	-1.13	Avg								
291	0.59	-.82	157	0.64	.52	042	0.58 R	-1.34	292								
114	0.59	-.82	453	0.63	.39	065	0.54	-1.65	Meth: 144.99 PCT								
422	0.59	-.82	043	0.63	.36	234	0.54	-1.68	Sulfur								
095	0.58	-.99	034	0.63	.34	351	0.49	-2.73	Other								
009	0.58	-1.02	354	0.63	.32	030	0.42 s	-4.44	230								
390	0.57	-1.38	131	0.62	.32	230	0.23 s	-8.65	230								
065	0.54	-2.08	027	0.63	.29	Meth: 131.00 PCT											
230	0.23 s	-11.59	102	0.63	.21	Water Soluble Magnes											
Meth: 121.70 PCT																	
Acid Soluble Magnesi																	
Titrimetric																	
372	0.65	.00	324	0.63	.21	AA			041								
Meth: 144.01 PCT																	
Sulfur																	
Other																	
220	1.03	1.04	420	0.62	.11	309	0.70	1.16	041								
292	1.01	-.65	057	0.62	.06	Avg	0.61		405								
Meth: 144.01 PCT																	
Sulfur																	
Other																	
230	1.44 s	3.42	Avg	0.62		029	0.59 R	-.38	405								
422	1.36	2.70	037	0.62	-.02	220	0.55	-.51	397								
030	1.33 s	2.60	023	0.62	-.09	452	0.44	-1.08	043								
157	1.30	2.21	426	0.61	-.13	Meth: 144.01 PCT											
023	1.15	.87	040	0.60	-.34	Sulfur											
009	1.14	.82	040	0.60	-.34	Gravimetric											
102	1.15	.81	040	0.60	-.34	041											
220	1.14	.76	057	0.62	.11	041											
255	1.10	.44	Avg	0.62		405											
453	1.08	.17	037	0.62	-.02	397											
136	1.06	.10	023	0.62	-.09	043											
Avg	1.06		065	0.63	-.08	095											
360	1.05	-.06	230	0.23 s	-11.59	055											
232	1.05	-.09	Meth: 144.01 PCT														
037	1.05	-.17	Sulfur														
409	1.04	-.20	Gravimetric														
361	1.04	-.20	041														
351	1.03	-.21	041														
452	1.03	-.30	041														
027	1.01	-.42	041														
354	1.01	-.43	041														

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	
Meth: 144.99 PCT												
Sulfur												
Other			232	1.05	-0.11	Meth: 151.30 PPM						
330	1.05	-0.46	247	8.50	0.30	Arsenic						
450	0.98	-0.74	102	7.98	0.15	ICP						
096	0.98	-0.75	Avg	7.51		231 11.18 0.87						
390	0.95	-0.96	444	5.03	-0.78	Avg 8.94 0.87						
368	0.94	-1.06	230	2.37	-1.58	454 0.052 1.30						
291	0.94	-1.10	393	1.64	-1.80	Avg 0.020 1.30						
090	0.84	-2.06	Meth: 151.99 PPM			Meth: 165.99 PCT						
Meth: 144.99 PCT												
Sulfur												
041	1.63 s	9.23	Meth: 181.99 PPM			Acid Soluble Boron						
405	1.61 s	8.87	231	11.18	0.87	393 0.542 s 21.14						
230	1.44 s	6.08	Avg	8.94		009 0.055 1.41						
422	1.36 A	4.81	409	6.70	-0.87	454 0.052 1.30						
030	1.33 s	4.64	Meth: 151.99 PPM			Avg 0.020 1.30						
397	1.30 s	4.24	Arsenic			409 0.004 -0.65						
157	1.30 R	3.95	Other			232 0.004 -0.65						
043	1.16	1.73	231	11.18	1.11	433 0.003 -0.67						
023	1.15	1.58	037	10.55	0.90	422 0.002 -0.73						
009	1.14	1.49	450	10.50	0.90	Meth: 181.00 PPM						
102	1.15	1.49	220	9.70 R	0.75	Meth: 181.99 PPM						
095	1.15	1.47	233	10.01	0.72	Cadmiium						
220	1.14	1.39	009	9.80	0.65	231 18.09 1.12						
055	1.14	1.31	065	8.71	0.38	136 16.95 0.76						
114	1.12	0.99	136	8.75	0.31	409 16.80 0.71						
255	1.10	0.81	247	8.50	0.22	096 16.50 0.64						
371	1.10	0.78	102	7.98	0.05	220 16.50 0.64						
057	1.10	0.75	Avg	7.82		102 16.44 0.60						
193	1.10	0.67	409	6.70	-0.37	247 16.35 0.57						
296	1.07	0.55	444	5.03	-0.94	037 16.25 0.54						
200	1.08	0.36	230	2.37	-1.80	065 15.16 0.25						
453	1.08	0.36	393	1.64	-2.04	390 15.15 0.21						
262	1.07	0.31	Meth: 151.30 PPM			Avg 14.53						
136	1.06	0.19	Arsenic			233 14.47 -0.05						
Avg	1.05		ICP			450 14.30 -0.10						
029	1.05	-0.05	037	10.55	0.94	009 14.10 -0.14						
360	1.05	-0.05	450	10.50	0.93	232 14.50 -0.16						
Meth: 165.99 PCT												
Acid Soluble Boron												
233	10.01	0.77	Meth: 181.30 PPM						Cadmiium			
009	9.80	0.70	ICP						ICP			
065	8.71	0.43	096 16.50 0.85						450 14.30 -0.10			
Meth: 151.30 PPM												
Arsenic												
009	9.80	0.65	037 16.35 0.79						009 14.10 -0.14			
065	8.71	0.38	037 16.25 0.76						232 14.50 -0.16			
136	8.75	0.31	065 15.16 0.45						452 13.52 -0.32			
247	8.50	0.22	390 15.15 0.42						444 13.56 -0.33			
102	7.98	0.05	232 14.50 0.26						372 7.21 -2.31			
Avg	7.82		233 14.47 0.21						230 5.78 -2.49			
136	8.75	0.31	Meth: 165.99 PCT						393 0.66 S -4.07			
247	8.50	0.22	Acid Soluble Boron						Meth: 181.99 PPM			
102	7.98	0.05	393 0.542 s 21.14						Cadmiium			
Avg	7.82		009 0.055 1.41						ICP			
136	8.75	0.31	454 0.052 1.30						450 14.30 0.17			
247	8.50	0.22	Avg 0.020 1.30						009 14.10 0.09			
102	7.98	0.05	Avg 0.004 -0.65						Avg 13.81			
Avg	7.82		232 0.004 -0.65						452 13.52 -0.09			
136	8.75	0.31	444 13.56 -0.14						444 13.56 -0.14			
247	8.50	0.22	372 7.21 -2.04						372 7.21 -2.04			
102	7.98	0.05	230 5.78 -2.49						230 5.78 -2.49			
Avg	7.82		393 0.66 S -4.07						393 0.66 S -4.07			
136	8.75	0.31	Meth: 181.00 PPM						Meth: 181.99 PPM			
247	8.50	0.22	Cadmiium						Cadmiium			
102	7.98	0.05	Atomic Absorption						Other			
Avg	7.82		136 16.95 0.47						231 18.09 0.90			
136	8.75	0.31	220 16.50 -1.13						Avg 17.44			
247	8.50	0.22	Meth: 181.30 PPM						409 16.80 0.71			
102	7.98	0.05	Cadmiium						096 16.50 0.64			
Avg	7.82		ICP						220 16.50 0.64			
136	8.75	0.31	096 16.50 0.85						102 16.44 0.60			
247	8.50	0.22	102 16.44 0.82						247 16.35 0.57			
102	7.98	0.05	247 16.35 0.79						037 16.25 0.54			
Avg	7.82		037 16.25 0.76						065 15.16 0.25			
136	8.75	0.31	065 15.16 0.45						390 15.15 0.21			
247	8.50	0.22	390 15.15 0.42						Avg 14.53			
102	7.98	0.05	232 14.50 0.26						233 14.47 -0.05			
Avg	7.82		233 14.47 0.21						450 14.30 -0.10			
136	8.75	0.31	Meth: 165.99 PCT						009 14.10 -0.14			
247	8.50	0.22	Acid Soluble Boron						232 14.50 -0.16			
102	7.98	0.05	Spectrometric						452 13.52 -0.32			
Avg	7.82		393 0.542 S 0.00						444 13.56 -0.33			
136	8.75	0.31	393 0.542 S 0.00						372 7.21 -2.31			
247	8.50	0.22	233 14.47 0.21						230 5.78 -2.49			
102	7.98	0.05	Meth: 181.30 PPM						393 0.66 S -4.07			
Avg	7.82		Cadmiium						Meth: 181.99 PPM			
136	8.75	0.31	ICP						Cadmiium			
247	8.50	0.22	096 16.50 0.85						Other			
102	7.98	0.05	102 16.44 0.82						231 18.09 0.90			
Avg	7.82		247 16.35 0.79						Avg 17.44			
136	8.75	0.31	037 16.25 0.76						409 16.80 0.71			
247	8.50	0.22	065 15.16 0.45						096 16.50 0.64			
102	7.98	0.05	390 15.15 0.42						220 16.50 0.64			
Avg	7.82		232 14.50 0.26						102 16.44 0.60			
136	8.75	0.31	233 14.47 0.21						247 16.35 0.57			
247	8.50	0.22	Meth: 181.30 PPM						037 16.25 0.54			
102	7.98	0.05	Cadmiium						065 15.16 0.25			
Avg	7.82		ICP						390 15.15 0.21			
136	8.75	0.31	096 16.50 0.85						Avg 14.53			
247	8.50	0.22	102 16.44 0.82						233 14.47 -0.05			
102	7.98	0.05	247 16.35 0.79						450 14.30 -0.10			
Avg	7.82		037 16.25 0.76						009 14.10 -0.14			
136	8.75	0.31	065 15.16 0.45						232 14.50 -0.16			
247	8.50	0.22	390 15.15 0.42						452 13.52 -0.32			
102	7.98	0.05	232 14.50 0.26						444 13.56 -0.33			
Avg	7.82		233 14.47 0.21						372 7.21 -2.31			
136	8.75	0.31	Meth: 165.99 PCT						230 5.78 -2.49			
247	8.50	0.22	Acid Soluble Boron						393 0.66 S -4.07			
102	7.98	0.05	Spectrometric						Meth: 181.99 PPM			
Avg	7.82		393 0.542 S 0.00						Cadmiium			
136	8.75	0.31	393 0.542 S 0.00						ICP			
247	8.50	0.22	233 14.47 0.21						450 14.30 0.17			
102	7.98	0.05	Meth: 181.30 PPM						009 14.10 0.09			
Avg	7.82		Cadmiium						Avg 13.81			
136	8.75	0.31	ICP						452 13.52 -0.09			
247	8.50	0.22	096 16.50 0.85						444 13.56 -0.14			
102	7.98	0.05	102 16.44 0.82						372 7.21 -2.04			
Avg	7.82		247 16.35 0.79						230 5.78 -2.49			
136	8.75	0.31	037 16.25 0.76						393 0.66 S -4.07			
247	8.50	0.22	065 15.16 0.45						Meth: 181.99 PPM			
102	7.98	0.05	390 15.15 0.42						Cadmiium			
Avg	7.82		232 14.50 0.26						Other			
136	8.75	0.31	233 14.47 0.21						231 18.09 0.90			
247	8.50	0.22	Meth: 181.30 PPM						Avg 17.44			
102	7.98	0.05	Cadmiium						409 16.80 0.71			
Avg	7.82		ICP						096 16.50 0.64			
136	8.75	0.31	096 16.50 0.85						220 16.50 0.64			
247	8.50	0.22	102 16.44 0.82						102 16.44 0.60			
102	7.98	0.05	247 16.35 0.79						247 16.35 0.57			
Avg	7.82		037 16.25 0.76						037 16.25 0.54			
136	8.75	0.31	065 15.16 0.45						065 15.16 0.25			
247	8.50	0.22	390 15.15 0.42						390 15.15 0.21			
102	7.98	0.05	232 14.50 0.26						Avg 14.53			
Avg	7.82		233 14.47 0.21						233 14.47 -0.05			
136	8.75	0.31	Meth: 165.99 PCT						450 14.30 -0.10			
247	8.50	0.22	Acid Soluble Boron						009 14.10 -0.14			
102	7.98	0.05	Spectrometric						232 14.50 -0.16			
Avg	7.82		393 0.542 S 0.00						452 13.52 -0.32			
136	8.75	0.31	393 0.542 S 0.00						444 13.56 -0.33			
247	8.50	0.22	233 14.47 0.21						372 7.21 -2.31			
102	7.98	0.05	Meth: 181.30 PPM						230 5.78 -2.49			
Avg	7.82		Cadmiium						393 0.66 S -4.07			
136	8.75	0.31	ICP						Meth: 181.99 PPM			
247	8.50	0.22	096 16.50 0.85						Cadmiium			
102	7.98	0.05	102 16.44 0.82						Other			
Avg	7.82		247 16.35 0.79						231 18.09 0.90			
136	8.75	0.31	037 16.25 0.76						Avg 17.44			
247	8.50	0.22	065 15.16 0.45						409 16.80 0.71			
102	7.98	0.05	390 15.15 0.42						096 16.50 0.64			
Avg	7.82		232 14.50 0.26						220 16.50 0.64			
136	8.75	0.31	233 14.47 0.21						102 16.44 0.60			
247	8.50	0.22	Meth: 181.30 PPM						247 16.35 0.57			
102	7.98	0.05	Cadmiium						037 16.25 0.54			
Avg	7.82		ICP						065 15.16 0.25			
136	8.75	0.31	096 16.50 0.85						390 15.15 0.21			
247	8.50	0.22	102 16.44 0.82						Avg 14.53			
102	7.98	0.05	247 16.35 0.79						233 14.47 -0.05			
Avg	7.82		037 16.25 0.76						450 14.30 -0.10			
136	8.75	0.31	065 15.16 0.45						009 14.10 -0.14			
247	8.50	0.22	390 15.15 0.42						232 14.50 -0.16			
102	7.9											

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index			
Meth: 181.XX PPM														
<u>Cadmium</u>														
393	0.66 s	-4.38										Meth: 221.XX PCT		
<u>Water Soluble Chlori</u>														
422	0.15	-.71										<u>Acid Soluble Copper</u>		
Meth: 191.00 PPM														
<u>Chromium</u>														
450	299.00	.73										057	0.0034	.48
450	299.00	.73										324	0.0034	.40
247	293.50	.54										095	0.0033	.35
037	292.74	.52										037	0.0032	.32
390	286.50	.40										009	0.0031	.19
009	286.50	.31										102	0.0030	.15
Avg	277.11											453	0.0030	.15
452	275.83	-.04										454	0.0030	.15
102	271.12	-.20										028	0.0030	.12
409	267.50	-.32										065	0.0029	.11
096	264.50	-.42										220	0.0029	.08
065	262.10	-.52										232	0.0029	.08
232	243.50	-1.11										409	0.0029	.05
444	200.15	-2.56										Avg	0.0028	
230	105.00 s	-5.70										452	0.0028	-.04
Meth: 202.00 PPM														
<u>Acid Soluble Cobalt</u>														
136	7.75 S	.00										230	0.0010	-1.28
Meth: 221.99 PCT														
<u>AA</u>														
043	0.0041	.94										393	0.0010	-1.30
028	0.0030 R	.33										262	0.0000	-1.99
220	0.0029	.30										292	0.0000	-1.99
Avg	0.0023											041	0.0000	-1.99
262	0.0000	-1.24										041	0.0000	-1.99
Meth: 221.00 PCT														
<u>Atomic Absorption</u>														
043	0.0041	.94										030	1.02 s	123.05
028	0.0030 R	.33										220	0.17	1.48
220	0.0029	.30										043	0.16	.81
Avg	0.0023											034	0.16	.78
262	0.0000	-1.24										371	0.16	.74
Meth: 221.30 PPM														
<u>Acid Soluble Cobalt</u>														
452	3.40 s	4.41										028	0.16	.72
450	2.30	1.96										055	0.16	.58
009	1.60	.33										Avg	0.16	
057	1.48	.29										397	0.16	-.22
065	1.55	.23										296	0.15	-.60
Avg	1.46											157	0.15	-.85
037	1.44	-.04										177	0.15	-1.27
247	1.40	-.26										262	0.15	-1.71
102	1.18	-.64										428	0.13 s	-3.57
393	0.70	-1.71												
Meth: 191.99 PPM														
<u>Chromium</u>														
231	321.60	.87												
Avg	294.55													
409	267.50	-.86												

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.30 PCT														
Acid Soluble Iron														
ICP			ICP			ICP			ICP			ICP		
422	1.03 s	57.73	393	0.01 s	-9.45	037	0.15	.16	393	2.76	.34	057	0.002	-0.31
330	0.20	3.24	Avg			402	0.15	.14	Avg	2.28		454	0.002	-0.31
117	0.19 R	2.46	Meth: 241.99 PCT			231	0.15	-0.06	065	2.27 X	-0.20	102	0.002	-0.31
368	0.17 R	1.78	Acid Soluble Iron			096	0.15	-0.06	444	1.84	-0.34	009	0.002	-0.31
361	0.17	1.43	Other			157	0.15	-0.18	230	0.84	-0.99	065	0.002	-0.31
095	0.17	1.31	042	0.13	.75	131	0.15	-0.24	102	0.64	-1.14	096	0.002	-0.31
452	0.17	1.00	Avg	0.12		233	0.15	-0.26	Meth: 251.99 PPM					
444	0.16	.90	234	0.11	-.97	177	0.15	-0.28	Lead			232	0.002	-0.31
354	0.16	.57	Meth: 241.99 PCT			255	0.14	-0.53	Other			292	0.000	-0.31
090	0.16	.54	Acid Soluble Iron			262	0.15	-0.54	231	2.55	1.07	Meth: 261.99 PCT		
390	0.16	.54	422	1.03 s	62.11	453	0.15	-0.55	Avg	2.31		Acid Soluble Manganese		
102	0.16	.43	030	1.02 s	61.15	360	0.15	-0.59	409	2.07	-.60	Other		
114	0.16	.40	330	0.20	3.45	023	0.14	-0.71	Meth: 261.99 PCT					
009	0.16	.37	117	0.19 R	2.62	454	0.14	-0.75	Acid Soluble Manganese					
057	0.15	.31	368	0.17 R	1.89	409	0.14	-1.04	Other					
426	0.15	.28	361	0.17	1.51	065	0.14	-1.06	Acid Soluble Manganese					
324	0.15	.26	095	0.17	1.38	292	0.14	-1.17	Other					
037	0.15	.18	220	0.17	1.05	041	0.14	-1.17	Acid Soluble Manganese					
402	0.15	.14	452	0.17	1.05	232	0.13	-1.34	Other					
Avg	0.15		444	0.16	.95	428	0.13	-1.42	Acid Soluble Manganese					
096	0.15	-.03	034	0.16	.72	042	0.13	-1.43	Other					
231	0.15	-.03	371	0.16	.71	450	0.13	-1.48	Acid Soluble Manganese					
131	0.15	-.19	055	0.16	.64	433	0.12	-2.38	Other					
233	0.15	-.21	028	0.16	.63	234	0.11 A	-2.96	Acid Soluble Manganese					
255	0.14	-.46	043	0.16	.60	230	0.05 s	-6.88	Other					
453	0.15	-.49	354	0.16	.59	393	0.01 s	-10.21	Acid Soluble Manganese					
360	0.15	-.53	090	0.16	.55	Meth: 251.00 PPM								
023	0.14	-.63	390	0.16	.54	Lead			Acid Soluble Manganese					
454	0.14	-.67	102	0.16	.43	Atomic Absorption								
409	0.14	-.94	114	0.16	.39	136	18.50 S	.00	ICP					
065	0.14	-.96	009	0.16	.36	Meth: 261.30 PCT								
041	0.14	-1.06	397	0.16	.34	Acid Soluble Manganese								
292	0.14	-1.06	296	0.15	.31	ICP								
232	0.13	-1.21	057	0.15	.30	Meth: 281.30 PPM								
450	0.13	-1.34	426	0.15	.27	Mercury								
433	0.12	-2.18	324	0.15	.25	ICP								
230	0.05 s	-6.36	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 251.30 PPM											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP														
230	0.01	.87	Meth: 281.30 PPM											
Mercury														
ICP														
230	0.01	.87	Meth: 261.30 PCT											
Acid Soluble Manganese														

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index			
Meth: 281.30 PPM														
Mercury														
ICP			Meth: 289.99 PPM			Meth: 289.99 PPM			Meth: 289.99 PPM					
450	0.00	-0.86	Molybdenum	3.34	.20	Nickel	037	30.47	.63	Sodium	009	0.49	.99	
			Avg	3.17		433	247	30.40	.43	Other	422	0.49	.92	
Meth: 289.30 PPM														
Molybdenum														
ICP			452	2.52	-0.86	Avg	009	29.30	.19	102	0.48	.57	.57	
102	9.21 s	7.70	009	2.25	-1.10	409	409	28.85		454	0.47	.42	.42	
450	4.50 R	1.94	230	1.23	-2.32	450	450	28.75	-0.03	Avg	0.45			
247	4.00	1.22	Meth: 291.00 PPM									057	0.45	-0.14
220	3.60	.72	Nickel									232	0.42	-0.72
057	3.57	.69	Atomic Absorption									292	0.37	-1.90
393	3.41	.51	220	33.00 X	1.14	220	33.00 X	1.14		Meth: 321.00 PCT				
232	3.25	.42	Avg	31.50		Avg	31.50		Acid Soluble Zinc					
065	3.34	.40	136	30.00	-0.46	136	30.00	-0.46	Atomic Absorption					
433	3.04	.03	Meth: 291.30 PPM									247	0.038	.86
Avg	3.02		Nickel									Avg	0.036	.69
452	2.52	-0.73	ICP									220	0.035	-0.87
009	2.25	-0.96	444	37.25	2.15	444	37.25	2.15	Meth: 321.30 PCT					
230	1.23	-2.23	037	30.47 R	.62	037	30.47 R	.62	Acid Soluble Zinc					
Meth: 289.99 PPM														
Molybdenum														
Other			247	30.40	.46	247	30.40	.46	ICP					
231	4.43	.88	009	29.30	.23	009	29.30	.23	422 0.054 s 6.50					
Avg	3.93		Avg	28.52		Avg	28.52		450 0.047 A 3.93					
409	3.43	-0.85	450	28.50	-0.12	450	28.50	-0.12	057 0.039 1.14					
Meth: 289.99 PPM														
Molybdenum														
102	9.21 s	7.21	102	27.07	-0.36	102	27.07	-0.36	096 0.039 .94					
450	4.50 R	1.70	065	27.05	-0.44	065	27.05	-0.44	409 0.038 .86					
231	4.43	1.52	372	25.13	-0.84	372	25.13	-0.84	247 0.038 .81					
247	4.00	.99	232	23.45	-1.25	232	23.45	-1.25	037 0.038 .66					
220	3.60	.51	Meth: 291.99 PPM									131	0.038	.60
057	3.57	.48	Nickel									296	0.038	.60
409	3.43	.32	Other									454	0.037	.53
393	3.41	.32	231	2.89	1.28	231	2.89	1.28	452 0.036 .36					
232	3.25	.31	Avg	1.69		Avg	1.69		065 0.036 .32					
Meth: 289.99 PPM														
Molybdenum														
231	4.43	1.52	409	1.15	-0.60	409	1.15	-0.60	444 0.037 .28					
247	4.00	.99	296	1.04	-0.70	296	1.04	-0.70	220 0.035 -.44					
220	3.60	.51	Meth: 301.99 PPM									102	0.038	.67
057	3.57	.48	Selenium									131	0.038	.65
409	3.43	.32	Other									232	0.032	-1.41
393	3.41	.32	231	2.89	1.79	231	2.89	1.79	292 0.030 -2.08					
232	3.25	.31	Avg	1.22		Avg	1.22		433 0.029 -2.50					
Meth: 289.99 PPM														
Molybdenum														
102	9.21 s	7.21	409	1.15	-0.16	409	1.15	-0.16	027 0.013 s -7.74					
450	4.50 R	1.70	296	1.04	-0.20	296	1.04	-0.20	393 0.002 s -11.35					
231	4.43	1.52	230	0.69	-0.57	230	0.69	-0.57	Meth: 321.99 PCT					
247	4.00	.99	450	0.50 R	-0.94	450	0.50 R	-0.94	Acid Soluble Zinc					
220	3.60	.51	393	0.34	-0.95	393	0.34	-0.95	ICP					
057	3.57	.48	Meth: 291.99 PPM									292	0.030	-1.98
409	3.43	.32	Nickel									433	0.029	-2.39
393	3.41	.32	444	37.25	2.34	444	37.25	2.34	027 0.013 s -7.74					
232	3.25	.31	220	33.00 R	2.04	220	33.00 R	2.04	393 0.002 s -11.84					
			136	30.00	.64	136	30.00	.64	Meth: 321.99 PCT					
			Meth: 291.99 PPM									422	0.054 s	6.50
			Nickel									450	0.047 A	3.93
			Other									057	0.039	1.14
			409	1.15	-0.16	409	1.15	-0.16	096 0.039 .94					
			296	1.04	-0.20	296	1.04	-0.20	409 0.038 .86					
			230	0.69	-0.57	230	0.69	-0.57	247 0.038 .81					
			450	0.50 R	-0.94	450	0.50 R	-0.94	037 0.038 .69					
			393	0.34	-0.95	393	0.34	-0.95	131 0.038 .66					
			Meth: 291.99 PPM									296	0.038	.60
			Nickel									454	0.037	.53
			Other									452	0.036	.36
			409	1.15	-0.16	409	1.15	-0.16	065 0.036 .32					
			296	1.04	-0.20	296	1.04	-0.20	444 0.037 .28					
			230	0.69	-0.57	230	0.69	-0.57	390 0.036 .18					
			450	0.50 R	-0.94	450	0.50 R	-0.94	009 0.036 .12					
			393	0.34	-0.95	393	0.34	-0.95	453 0.036 .05					
			Meth: 291.99 PPM									220	0.035	-0.44
			Nickel									102	0.035	-0.52
			Other									232	0.032	-1.41
			409	1.15	-0.16	409	1.15	-0.16	292 0.030 -2.08					
			296	1.04	-0.20	296	1.04	-0.20	433 0.029 -2.50					
			230	0.69	-0.57	230	0.69	-0.57	027 0.013 s -8.08					
			450	0.50 R	-0.94	450	0.50 R	-0.94	393 0.002 s -11.84					
			393	0.34	-0.95	393	0.34	-0.95	Meth: 321.99 PCT					
			Meth: 291.99 PPM									422	0.054 s	6.50
			Nickel									450	0.047 A	3.93
			Other									057	0.039	1.14
			409	1.15	-0.16	409	1.15	-0.16	096 0.039 .94					
			296	1.04	-0.20	296	1.04	-0.20	409 0.038 .86					
			230	0.69	-0.57	230	0.69	-0.57	247 0.038 .81					
			450	0.50 R	-0.94	450	0.50 R	-0.94	037 0.038 .69					
			393	0.34	-0.95	393	0.34	-0.95	131 0.038 .66					
			Meth: 291.99 PPM									296	0.038	.60
			Nickel									454	0.037	.53
			Other									452	0.036	.36
			409	1.15	-0.16	409	1.15	-0.16	065 0.036 .32					
			296	1.04	-0.20	296	1.04	-0.20	444 0.037 .28					
			230	0.69	-0.57	230	0.69	-0.57	390 0.036 .18					
			450	0.50 R	-0.94	450	0.50 R	-0.94	009 0.036 .12					
			393	0.34	-0.95	393	0.34	-0.95	453 0.036 .05					
			Meth: 291.99 PPM									220	0.035	-0.44
			Nickel									102	0.035	-0.52
			Other									232	0.032	-1.41
			409	1.15	-0.16	409	1.15	-0.16	292 0.030 -2.08					
			296	1.04	-0.20	296	1.04	-0.20	433 0.029 -2.50					
			230	0.69	-0.57	230	0.69	-0.57	027 0.013 s -8.08					
			450	0.50 R	-0.94	450	0.50 R	-0.94	393 0.002 s -11.84					
			393	0.34	-0.95	393	0.34	-0.95	Meth: 321.99 PCT					
			Meth: 291.99 PPM									422	0.054 s	6.50
			Nickel									450	0.047 A	3.93
			Other									057	0.039	1.14
			409	1.15	-0.16	409	1.15	-0.16	096 0.039 .94					
			296	1.04	-0.20	296	1.04	-0.20	409 0.038 .86					
			230	0.69	-0.57	230	0.69	-0.57	247 0.038 .81					
			450	0.50 R	-0.94	450	0.50 R	-0.94	037 0.038 .69					
			393	0.34	-0.95	393	0.34	-0.95	131 0.038 .66					
			Meth: 291.99 PPM									296	0.038	.60
			Nickel									454	0.037	.53
			Other									452	0.036	.36
			409	1.15	-0.16	409	1.15	-0.16	065 0.036 .32					
			296	1.04	-0.20	296	1.04	-0.20	444 0.037 .28					
			230	0.69	-0.57	230	0.69	-0.57	390 0.036 .18					
			450	0.50 R	-0.94	450	0.50 R	-0.94	009 0.036 .12					
			393	0.34	-0.95	393	0.34	-0.95	453 0.036 .05					
			Meth: 291.99 PPM									220	0.035	-0.44
			Nickel									102	0.035	-0.52
			Other									232	0.032	-1.41
			409	1.15	-0.16	409	1.15	-0.16	292 0.030 -2.08					
			296	1.04	-0.20	296	1.04	-0.20	433 0.029 -2.50					
			230	0.69	-0.57	230	0.69	-0.57	027 0.013 s -8.08					
			450	0.50 R	-0.94	450	0.50 R	-0.94	393 0.002 s -11.84					
			393	0.34	-0.95	393	0.34	-0.95	Meth: 321.99 PCT					
			Meth: 291.99 PPM									422	0.054 s	6.50
			Nickel									450	0.047 A	3.93
			Other									057	0.039	1.14
			409	1.15	-0.16	409	1.15	-0.16	096 0.039 .94					
			296	1.04	-0.20	296	1.04	-0.20	409 0.038 .86					
			230	0.69	-0.57	230	0.69	-0.57	247 0.038 .81					
			450	0.50 R	-0.94	450	0.50 R	-0.94	037 0.038 .69					
			393											

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
001.99	2	0.00	1.22	0.01	131.00	3	0.00	1.04	0.33
001.XX	3	0.00	1.12	0.01	131.30	2	0.00	1.22	0.03
010.11	9	0.00	1.03	0.05	131.XX	6	-	0.96	0.09
010.12	5	0.00	1.05	0.15	144.01	19	1.24	3.27	0.68
010.60	60	- 1.18	5.11	0.27	144.02	2	0.00	0.82	0.65
010.99	6	- 0.26	1.14	0.05	144.99	27	0.22	1.24	0.27
010.XX	78	- 0.22	1.34	0.17	144.XX	47	0.79	2.50	0.54
020.10	7	- 0.17	1.03	0.39	151.00	2	0.00	0.56	0.77
020.20	18	- 0.07	1.02	0.19	151.30	10	0.00	1.02	0.11
020.40	6	- 0.49	1.49	2.20	151.99	2	0.00	1.22	0.03
020.50	8	0.00	0.98	0.31	151.XX	14	0.04	0.99	0.15
020.99	2	- 623.3	881.50	68.00	165.99	6	0.000	1.046	0.074
020.XX	41	- 0.26	1.44	0.28	165.XX	7	3.017	8.040	0.328
030.40	2	0.00	1.21	0.13	181.00	2	0.00	0.66	0.73
030.XX	6	0.00	1.05	0.02	181.30	15	- 0.27	1.44	0.08
040.40	3	0.00	1.11	0.07	181.99	2	0.00	1.17	0.25
040.XX	7	- 0.16	1.05	0.19	181.XX	19	- 0.23	1.40	0.09
041.10	13	- 0.04	0.98	0.14	191.30	12	- 0.49	1.96	0.12
041.20	3	- 19.58	33.92	0.36	191.99	2	0.00	1.22	0.06
041.40	5	0.00	1.06	0.08	191.XX	15	- 0.38	1.77	0.11
041.50	12	0.00	1.00	0.19	202.30	9	0.49	1.74	0.22
041.60	10	0.00	1.02	0.11	202.99	2	0.00	1.20	0.16
041.99	2	- 34.87	49.32	16.83	202.XX	12	0.73	2.72	0.14
041.XX	37	- 0.62	3.49	0.31	221.00	4	0.0818	0.9274	0.0133
048.20	3	0.00	1.12	0.03	221.30	22	0.3518	1.4590	0.1768
048.XX	4	0.00	1.08	0.04	221.99	2	0.0000	1.0254	0.4735
050.50	4	0.00	1.08	0.00	221.XX	28	0.2842	1.3965	0.1654
050.99	2	641.76	907.59	0.50	241.00	13	9.18	34.20	1.64
050.XX	9	17.05	51.08	0.08	241.30	37	1.23	9.78	0.40
060.00	4	0.00	1.08	0.03	241.99	2	0.00	0.99	0.51
060.XX	4	0.00	1.08	0.03	241.XX	52	2.06	12.19	0.56
101.00	15	- 0.52	2.25	0.13	251.30	7	0.00	1.03	0.17
101.30	34	- 0.01	1.49	0.15	251.99	2	0.00	0.85	0.63
101.99	2	0.00	0.23	0.85	251.XX	10	1.27	4.14	0.22
101.XX	52	- 0.09	1.86	0.17	261.30	13	0.300	1.239	0.009
121.00	16	- 0.23	1.32	0.27	261.XX	14	0.189	1.089	0.007
121.30	38	0.14	3.00	0.31	281.30	2	0.00	1.22	0.06
121.99	2	0.00	0.51	0.79	281.XX	2	0.00	1.22	0.06
121.XX	57	- 0.08	2.00	0.30	289.30	12	0.79	2.42	0.23

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
289.99	2	0.00	1.19	0.20					
289.XX	14	0.63	2.15	0.21					
291.00	2	0.00	0.39	0.82					
291.30	9	0.05	0.98	0.17					
291.XX	12	0.10	1.00	0.54					
301.30	3	0.00	0.50	0.82					
301.99	3	0.00	1.11	0.08					
301.XX	6	- 0.13	1.00	0.23					
311.99	7	0.00	1.03	0.15					
311.XX	7	0.00	1.03	0.15					
321.00	2	0.000	1.144	0.309					
321.30	21	- 0.437	3.554	0.289					
321.XX	22	- 0.455	3.619	0.290					