

- Pass 1 Results for 82 Labs - - Pass 2 Results for 82 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	5	6.40	0.19	0.10	4	6.46	0.14	0.03
Ammoniacal Nitrogen, Other		001.99	7	6.38	0.37	0.06	7	6.38	0.37	0.06
Method Group 001.XX PCT			12	6.39	0.30	0.08	11	6.41	0.31	0.05
Nitrate Nitrogen, Other		002.99	2	0.57	0.61	0.01	2	0.57	0.61	0.01
Water Insoluble Nitrogen, Meth I	945.01	003.10	2	3.87	0.12	0.10	2	3.87	0.12	0.10
Water Insoluble Nitrogen, Other		003.99	2	4.10	0.35	0.07	2	4.10	0.35	0.07
Method Group 003.XX PCT			4	3.99	0.27	0.09	4	3.99	0.27	0.09
Nitrogen From Urea, Urease (as N)	959.03	005.00	2	11.66	1.70	0.28	2	11.66	1.70	0.28
Nitrogen From Urea, Other		005.99	4	11.92	4.76	0.26	4	11.92	4.76	0.26
Method Group 005.XX PCT			6	11.83	3.90	0.27	6	11.83	3.90	0.27
Total Nitrogen, Modified Comprehensive	978.02	010.11	7	27.10	0.34	0.14	7	27.10	0.34	0.14
Total Nitrogen, Salicylic	955.04D	010.12	4	27.26	0.35	0.29	3	27.20	0.22	0.05
Total Nitrogen, Combustion		010.60	54	27.14	0.26	0.17	52	27.14	0.25	0.15
Total Nitrogen, Other		010.99	6	27.28	0.40	0.06	5	27.38	0.37	0.03
Method Group 010.XX PCT			71	27.15	0.29	0.16	68	27.15	0.28	0.14
Total Phosphate, Grav Quimociac	962.02	020.10	5	3.02	0.05	0.04	5	3.02	0.05	0.04
Total Phosphate, Spectrometric	958.01	020.20	16	3.06	0.15	0.07	15	3.07	0.15	0.05
Total Phosphate, Automated	978.01	020.40	7	3.09	0.17	0.10	6	3.08	0.16	0.04
Total Phosphate, ICP		020.50	15	3.05	0.22	0.14	15	3.05	0.22	0.14
Total Phosphate, Other		020.99	4	3.03	0.22	0.15	4	3.03	0.22	0.15
Method Group 020.XX PCT			47	3.05	0.18	0.10	42	3.05	0.15	0.06
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.23	0.02	0.03	1	0.23	0.02	0.03
Insoluble Phosphate, ICP		030.50	2	0.02	0.01	0.00	2	0.02	0.01	0.00
Method Group 030.XX PCT			4	0.07	0.10	0.01	4	0.07	0.10	0.01
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	3.06	0.04	0.06	1	3.06	0.04	0.06
InDir Available Phosphate, Spectrometri	960.02	040.20	1	2.96	0.16	0.22	1	2.96	0.16	0.22
InDir Available Phosphate, Automated ..	960.02	040.40	1	3.05	0.01	0.01	1	3.05	0.01	0.01
InDir Available Phosphate, ICP		040.50	1	2.99	0.14	0.20	1	2.99	0.14	0.20
InDir Available Phosphate, Other		040.99	1	3.02	0.16	0.23	1	3.02	0.16	0.23
Method Group 040.XX PCT			5	3.01	0.10	0.14	5	3.01	0.10	0.14
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	11	3.00	0.07	0.08	10	2.99	0.05	0.06
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	3.18	0.03	0.04	1	3.18	0.03	0.04
Dir Available Phosphate, Automated	978.01	041.40	3	3.01	0.14	0.15	3	3.01	0.14	0.15
Dir Available Phosphate, ICP		041.50	11	2.97	0.15	0.04	11	2.97	0.15	0.04
Dir Available Phosphate, EDTA Extract .	993.01	041.60	8	3.05	0.13	0.09	7	3.05	0.13	0.06
Dir Available Phosphate, Other		041.99	1	3.02	0.02	0.03	1	3.02	0.02	0.03
Method Group 041.XX PCT			36	3.01	0.13	0.08	33	3.01	0.12	0.05
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	2.49	0.11	0.07	3	2.49	0.11	0.07

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Water Soluble Phosphate, ICP		048.50	1	2.26	0.01	0.02	1	2.26	0.01	0.02
Method Group 048.XX PCT			4	2.43	0.14	0.06	4	2.43	0.14	0.06
Soluble Potash, STPB Oxalate	958.02	050.00	11	8.40	0.31	0.09	11	8.40	0.31	0.09
Soluble Potash, STPB Citrate	969.04	050.10	1	7.98	0.05	0.07	1	7.98	0.05	0.07
Soluble Potash, AA (Oxalate)		050.30	6	8.20	0.38	0.13	6	8.20	0.38	0.13
Soluble Potash, AA (Citrate)		050.31	1	7.93	0.04	0.05	1	7.93	0.04	0.05
Soluble Potash, ICP (Oxalate)		050.50	10	8.31	0.27	0.22	10	8.31	0.27	0.22
Soluble Potash, ICP (Citrate)		050.51	12	8.47	0.21	0.13	12	8.47	0.21	0.13
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	4	8.40	0.29	0.09	4	8.40	0.29	0.09
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	9	8.34	0.21	0.05	9	8.34	0.21	0.05
Soluble Potash, Other		050.99	15	8.45	0.45	0.10	14	8.41	0.43	0.07
Method Group 050.XX PCT			69	8.37	0.33	0.12	63	8.35	0.29	0.09
Free Water, Vacuum Oven	965.08B	060.00	5	1.58	0.12	0.04	5	1.58	0.12	0.04
Acid Soluble Calcium, ICP		101.30	14	0.20	0.06	0.02	12	0.19	0.03	0.01
Acid Soluble Magnesium, AA	984.01	121.00	1	0.33	0.01	0.01	1	0.33	0.01	0.01
Acid Soluble Magnesium, ICP		121.30	14	0.14	0.02	0.01	13	0.14	0.02	0.01
Method Group 121.XX PCT			16	0.16	0.06	0.01	15	0.16	0.06	0.01
Sulfur, Gravimetric	980.02a	144.01	10	6.48	0.25	0.09	9	6.53	0.20	0.07
Sulfur, Gravimetric	980.02b	144.02	1	5.57	0.01	0.01	1	5.57	0.01	0.01
Sulfur, Spectrometric		144.70	1	6.61	0.19	0.27	1	6.61	0.19	0.27
Sulfur, Other		144.99	29	6.39	0.39	0.15	27	6.38	0.39	0.12
Method Group 144.XX PCT			42	6.42	0.40	0.14	38	6.39	0.38	0.11
Arsenic, ICP		151.30	6	5.49	2.47	0.66	5	5.03	2.34	0.14
Arsenic, Other		151.99	1	3.56	0.06	0.08	1	3.56	0.06	0.08
Method Group 151.XX PPM			7	5.21	2.38	0.58	6	4.79	2.20	0.13
Acid Soluble Boron, Other		165.99	6	0.004	0.001	0.000	6	0.004	0.001	0.000
Cadmium, Atomic Absorption		181.00	1	1.64	0.18	0.25	1	1.64	0.18	0.25
Cadmium, ICP		181.30	9	1.61	0.88	0.10	8	1.66	0.92	0.06
Cadmium, Other		181.99	1	1.75	0.22	0.31	1	1.75	0.22	0.31
Method Group 181.XX PPM			11	1.63	0.80	0.13	11	1.63	0.80	0.13
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	6.26	0.21	0.29	1	6.26	0.21	0.29
Water Soluble Chlorine, Other		190.99	1	6.49	0.17	0.24	1	6.49	0.17	0.24
Method Group 190.XX PCT			2	6.37	0.20	0.27	2	6.37	0.20	0.27
Chromium, Atomic Absorption		191.00	1	55.00	7.07	10.00	1	55.00	7.07	10.00
Chromium, ICP		191.30	12	42.38	12.16	1.67	12	42.38	12.16	1.67
Chromium, Other		191.99	1	17.69	0.80	1.13	1	17.69	0.80	1.13
Method Group 191.XX PPM			14	41.52	13.56	2.22	13	40.48	13.45	1.63
Acid Soluble Cobalt, AA		202.00	1	5.00	0.00	0.00	1	5.00	0.00	0.00
Acid Soluble Cobalt, ICP	965.11	202.30	14	14.18	6.45	0.91	14	14.18	6.45	0.91

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Acid Soluble Cobalt, Other		202.99	1	4.95	0.23	0.32	1	4.95	0.23	0.32
Method Group 202.XX PPM			16	13.03	6.77	0.82	15	12.51	6.66	0.68
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0510	0.0027	0.0029	4	0.0510	0.0027	0.0029
Acid Soluble Copper, ICP		221.30	18	0.0488	0.0025	0.0011	16	0.0487	0.0026	0.0007
Acid Soluble Copper, Other		221.99	1	0.0503	0.0018	0.0025	1	0.0503	0.0018	0.0025
Method Group 221.XX PCT			23	0.0493	0.0026	0.0015	22	0.0491	0.0024	0.0011
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	7	2.61	0.50	0.09	7	2.61	0.50	0.09
Acid Soluble Iron, ICP		241.30	31	2.65	0.37	0.09	31	2.65	0.37	0.09
Acid Soluble Iron, Other		241.99	4	2.67	0.72	0.11	4	2.67	0.72	0.11
Method Group 241.XX PCT			43	2.60	0.51	0.09	42	2.64	0.43	0.09
Lead, ICP		251.30	11	16.31	1.84	1.07	11	16.31	1.84	1.07
Lead, Other		251.99	1	12.75	0.72	1.02	1	12.75	0.72	1.02
Method Group 251.XX PPM			12	16.02	2.03	1.07	12	16.02	2.03	1.07
Acid Soluble Manganese, ICP	972.02a	261.30	12	0.034	0.003	0.002	11	0.034	0.003	0.002
Acid Soluble Manganese, Other		261.99	1	0.027	0.001	0.002	1	0.027	0.001	0.002
Method Group 261.XX PCT			13	0.033	0.004	0.002	12	0.033	0.003	0.002
Mercury, ICP		281.30	2	0.48	0.47	0.07	2	0.48	0.47	0.07
Molybdenum, ICP		289.30	12	8.23	1.31	0.59	12	8.23	1.31	0.59
Molybdenum, Other		289.99	1	5.30	0.26	0.37	1	5.30	0.26	0.37
Method Group 289.XX PPM			14	7.63	2.00	0.56	14	7.63	2.00	0.56
Nickel, ICP		291.30	13	18.24	5.90	0.92	13	18.24	5.90	0.92
Nickel, Other		291.99	1	8.43	0.19	0.26	1	8.43	0.19	0.26
Method Group 291.XX PPM			14	17.54	6.24	0.87	13	16.70	5.61	0.71
Selenium, ICP		301.30	2	0.27	0.31	0.00	2	0.27	0.31	0.00
Sodium, Flame Photometric	974.01	311.30	1	0.07	0.00	0.00	1	0.07	0.00	0.00
Sodium, Other		311.99	6	0.10	0.06	0.01	5	0.11	0.07	0.00
Method Group 311.XX PCT			7	0.10	0.06	0.01	6	0.10	0.06	0.00
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	1	0.166	0.003	0.004	1	0.166	0.003	0.004
Acid Soluble Zinc, ICP		321.30	18	0.178	0.015	0.008	17	0.179	0.015	0.006
Acid Soluble Zinc, Other		321.99	3	0.155	0.015	0.007	3	0.155	0.015	0.007
Method Group 321.XX PCT			22	0.174	0.016	0.007	21	0.175	0.016	0.006
Water Soluble Zinc, ICP		325.30	1	0.150	0.000	0.000	1	0.150	0.000	0.000
Water Soluble Zinc, Other		325.99	1	0.180	0.014	0.020	1	0.180	0.014	0.020
Method Group 325.XX PCT			2	0.165	0.019	0.010	2	0.165	0.019	0.010

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index		
<u>Meth: 001.10 PCT</u>			<u>Meth: 002.99 PCT</u>			<u>Meth: 005.99 PCT</u>			<u>Meth: 010.12 PCT</u>			<u>Meth: 010.60 PCT</u>				
Ammoniacal Nitrogen			Nitrate Nitrogen			Nitrogen From Urea			Total Nitrogen			Total Nitrogen				
<u>MgO Distillation</u>			<u>Other</u>			<u>Other</u>			<u>Salicylic</u>			<u>Combustion</u>				
231	6.57	.78	481	1.10	.87	029	12.39	.10	484	20.99 S	-27.94	402	27.08	-.30		
090	6.55	.68	Avg	0.57		027	12.07	.05				233	27.06	-.34		
456	6.47	.23	232	0.05	-.87	Avg	11.92		<u>Meth: 010.60 PCT</u>			234	27.08	-.34		
Avg	6.46					475	5.34	-1.38	Total Nitrogen			405	27.01	-.56		
177	6.24	-1.54	<u>Meth: 003.10 PCT</u>			<u>Meth: 005.XX PCT</u>			<u>Combustion</u>			095	27.01	-.56		
232	6.18 R	-2.32	Water Insoluble Nitr			Nitrogen From Urea			351	30.02 s	11.44	022	27.00	-.56		
			<u>Meth I</u>			481			17.90	1.55		426	27.07	-.59		
<u>Meth: 001.99 PCT</u>			090	3.96	.65	368			13.12	.33	360	27.71	2.24	035	26.99	-.61
Ammoniacal Nitrogen			Avg	3.87		029			12.39	.14	023	27.55	1.63	102	27.03	-.62
<u>Other</u>			029	3.79	-1.04	027			12.07	.08	354	27.54	1.56	232	26.98	-.76
117	27.30 s	56.32	<u>Meth: 003.99 PCT</u>			Avg			11.83		422	27.51	1.49	406	26.96	-.76
481	6.95	1.51	Water Insoluble Nitr			232			10.20	-.42	389	27.45	1.24	368	26.96	-.94
397	6.63	.68	<u>Other</u>			475			5.34	-1.67	043	27.37	.88	390	26.92	-.95
475	6.61	.60	475	4.40	.86	<u>Meth: 010.11 PCT</u>			324			27.35	.85	040	27.05	-1.06
096	6.44	.17	Avg	4.10		Total Nitrogen			325			27.20	.83	291	26.86	-1.12
Avg	6.38		027	3.80	-.87	<u>Modified Comprehensi</u>			177			27.31	.71	057	27.04 R	-1.28
027	6.17	-.59	<u>Meth: 003.XX PCT</u>			211			27.68	1.71	131	27.26	.70	037	26.92	-1.30
420	6.10	-.79	Water Insoluble Nitr			470			27.33	.67	055	27.30	.67	007	27.00 R	-1.32
368	5.81	-1.55	475	4.40	1.52	456			27.22	.36	105	27.19	.64	371	26.85	-1.37
<u>Meth: 001.XX PCT</u>			Avg	3.99		Avg			27.10		009	27.29	.60	483	26.80	-1.52
Ammoniacal Nitrogen			090	3.96	-.12	090			26.95	-.47	452	27.25	.51	443	26.75	-1.57
117	27.30 s	68.39	027	3.80	-.72	114			27.01	-.71	096	27.27	.51	041	26.70	-1.79
481	6.95	1.75	029	3.79	-.80	474			26.79	-.97	034	27.26	.48	157	26.70	-1.80
397	6.63	.75	<u>Meth: 005.00 PCT</u>			105			26.71	-1.16	450	27.20	.46	451	26.70	-1.93
475	6.61	.65	Nitrogen From Urea			260			25.56 s	-4.52	049	27.25	.43	042	26.37 s	-3.79
231	6.57	.51	<u>Urease (as N)</u>			Meth: 010.12 PCT			027			27.25	.43	475	25.52 s	-6.55
090	6.55	.46	368	13.12	.86	Total Nitrogen			106			27.24	.42			
456	6.47	.22	Avg	11.66		Salicylic			162			27.24	.41	<u>Meth: 010.99 PCT</u>		
096	6.44	.14	232	10.20	-.87	455			29.90 S	12.03	Total Nitrogen			<u>Other</u>		
Avg	6.41					481			27.46 R	2.52	029			169		
177	6.24	-.57	<u>Meth: 005.99 PCT</u>			254			27.39	.86	086			27.15		
027	6.17	-.80	Nitrogen From Urea			185			27.29	.42	393			27.20		
232	6.18 R	-.96	<u>Other</u>			Avg			27.20		292			27.19		
420	6.10	-1.05	481	17.90	1.25	397			26.92	-1.26	231			27.17		
368	5.81	-1.97									377			27.15		
											Avg			27.14		
											073			27.11		
														-.15		
														255		
														26.76		
														-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	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>		
420	25.98 S	-3.79	420	27.19	.32	041	26.70	-1.66	450	2.95 R	-1.47	443	3.27	1.56
			456	27.22	.25	157	26.70	-1.67				322	3.09	.27
			029	27.19	.23	451	26.70	-1.78				Avg	3.03	
			393	27.20	.18	042	26.37 s	-3.47	Meth: 020.40 PCT			137	2.92	-.51
Meth: 010.XX PCT			292			420			Total Phosphate			455		
Total Nitrogen			231			260			Automated			2.85		
351	30.02 s	10.36	Avg			475			027			-0.86		
455	29.90 s	9.91	27.15			25.52 s			3.12 R			1.54		
169	27.84	2.47	377			20.99 s			484			1.23		
481	27.46 R	2.12	073			-22.50			096			1.20		
330	27.65	2.01	086			Meth: 020.10 PCT			456			.18		
360	27.71	2.00	402			Total Phosphate			Avg			3.08		
211	27.68	1.90	233			Grav Quimociac			105			-0.44		
023	27.55	1.45	234			090			042			-0.92		
354	27.54	1.38	234			3.07			035			-1.21		
300	27.52	1.33	095			3.03			Meth: 020.50 PCT			1.65		
422	27.51	1.31	405			3.05			Total Phosphate			1.62		
389	27.45	1.09	022			Avg			ICP			1.52		
479	27.40	.89	426			470			432			1.87		
254	27.39	.86	035			3.00			483			1.39		
137	27.37	.79	102			-1.37			452			1.12		
043	27.37	.77	232			Meth: 020.20 PCT			426			1.11		
325	27.20	.74	406			Total Phosphate			422			.30		
324	27.35	.74	090			Spectrometric			Avg			3.05		
470	27.33	.62	397			324			291			-0.06		
177	27.31	.61	26.92			406			231			-0.16		
131	27.26	.61	368			3.28			402			-0.24		
055	27.30	.58	390			231			157			-0.25		
105	27.19	.57	114			406			390			-0.45		
009	27.29	.51	040			3.15			255			-0.51		
185	27.29	.50	291			.74			368			-0.98		
452	27.25	.43	057			.51			393			-1.07		
096	27.27	.43	27.04 R			.36			389			-1.15		
034	27.26	.40	037			Avg			451			-1.56		
450	27.20	.40	26.92			3.07			405					
027	27.25	.35	007			234			428					
049	27.25	.35	27.00 R			-0.19			474					
106	27.24	.35	371			-0.40			169					
162	27.24	.34	030			-0.49			420					
			074			-0.51			479					
			26.85			-0.51			177					
			26.81			-0.51			232					
			-1.32			-0.51								
			-1.39			-0.51								
			-1.41			-0.51								
			-1.42			-0.51								
			-1.46			-0.51								
			-1.63			-0.51								

* 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>		
157	3.01	-.37	096	0.23	1.62	474	2.96	-1.26	ICP			023	3.16	1.30
169	2.97	-.56	Avg	0.07					360	3.01	.28	029	3.03 R	1.29
420	2.96	-.59	479	0.03	-.43	Meth: 041.10 PCT			055	2.98	.11	022	3.05 R	1.28
041	2.96	-.62	090	0.01	-.58	<u>Dir Available Phosph</u>			Avg	2.97		254	3.14	1.26
474	3.04	-.64	255	0.01	-.59	<u>Grav Quimociac</u>			377	2.93	-.32	034	3.10	.80
390	3.03	-.65	Meth: 040.10 PCT			254	3.14 s	3.26	325	2.95	-.35	049	3.01	.49
042	2.94	-.72	<u>InDir Available Phos</u>			022	3.05 R	3.16	007	2.89	-.53	095	3.07	.49
479	3.04	-.73	<u>Grav Quim</u>			185	3.06	1.32	354	2.88	-.61	185	3.06	.44
255	3.00	-.74	090	3.06	.71	049	3.01	1.23	043	2.86	-.70	397	3.04	.43
177	2.92	-.82	Meth: 040.20 PCT			260	3.03	1.09	368	2.83 s	-1.74	260	3.03	.40
137	2.92	-.85	<u>InDir Available Phos</u>			009	3.00	.89	393	2.70	-1.75	106	3.02	.35
232	2.91	-.92	<u>Spectrometri</u>			055	3.02	.52	475	1.48 s	-9.80	351	3.05	.33
035	2.90	-1.02	474	2.96	.71	040	3.00	.14	Meth: 041.60 PCT			009	3.02	.22
450	2.95 R	-1.35	Meth: 040.40 PCT			Avg	2.99		<u>Dir Available Phosph</u>			105	3.02	.14
455	2.85	-1.36	<u>InDir Available Phos</u>			211	2.98	-.26	<u>EDTA Extract</u>			055	3.02	.14
368	2.85	-1.43	<u>Automated</u>			105	2.97	-.74	043	3.31	1.98	040	3.00	-.06
393	2.82	-1.55	096	3.05	.71	102	2.95	-1.30	034	3.10	.41	360	3.01	-.13
389	2.80	-1.67	Meth: 041.20 PCT			131	2.93	-1.30	Avg	3.05		211	2.98	-.23
451	2.78 R	-2.27	<u>Dir Available Phosph</u>			Meth: 041.40 PCT			351	3.05	-.11	055	2.98	-.24
Meth: 030.10 PCT			Meth: 040.50 PCT			<u>Spectrometric</u>			397	3.04	-.33	009	3.00	-.38
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			030			106	3.02	-.41	231	2.96	-.39
<u>Grav Quimociac</u>			<u>ICP</u>			.71			231	2.96	-.73	105	2.97	-.39
090	0.01	.00	255	2.99	.71	Meth: 041.40 PCT			029	3.03 R	-1.22	325	2.95	-.63
Meth: 030.40 PCT			Meth: 040.99 PCT			<u>Automated</u>			117	2.91	-1.26	102	2.95	-.63
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			027			105	2.51 s	-4.37	131	2.93	-.66
<u>Automated</u>			<u>Other</u>			095			Meth: 041.99 PCT			377	2.93	-.71
096	0.23	.71	479	3.02	.71	Avg			<u>Dir Available Phosph</u>			131	2.91	-.82
Meth: 030.50 PCT			Meth: 040.XX PCT			131			<u>Other</u>			117	2.91	-1.00
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			2.91			105			007	2.89	-1.01
<u>ICP</u>			479			3.02			3.02			354	2.88	-1.10
479	0.03	.93	090	3.06	.56	Meth: 041.50 PCT			Meth: 041.XX PCT			043	2.86	-1.22
Avg	0.02		096	3.05	.32	<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			368	2.83 s	-2.37
255	0.01	-.79	Avg	3.01		ICP			043			393	2.70	-2.53
Meth: 030.50 PCT			255	2.99	-1.05	452			3.27			105	2.51 s	-4.28
<u>Insoluble Phosphate</u>			Meth: 040.99 PCT			023			3.16			475	1.48 s	-12.58
<u>ICP</u>			<u>InDir Available Phos</u>			009			3.02			Meth: 041.99 PCT		
479	0.03	.93	479	3.02	1.18	3.02			3.02			<u>Dir Available Phosph</u>		
Avg	0.02		090	3.06	.56	452			3.27			043		
255	0.01	-.79	096	3.05	.32	2.04			2.21			027		
Meth: 030.50 PCT			Avg	3.01		1.30			1.57			030		
<u>Insoluble Phosphate</u>			255	2.99	-1.05	.36			1.43					
<u>ICP</u>			Meth: 040.99 PCT			Meth: 041.50 PCT			Meth: 041.XX PCT					
479	0.03	.93	<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>					
Avg	0.02		479			452			043					
255	0.01	-.79	090			023			027					
Meth: 030.50 PCT			096			009			030					
<u>Insoluble Phosphate</u>			Avg			3.02			3.18					
<u>ICP</u>			255			3.02			3.18					
479	0.03	.93	2.99			3.02			3.18					
Avg	0.02		-1.05			.36			1.43					
255	0.01	-.79												

* 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: 048.20 PCT			Meth: 050.10 PCT			Meth: 050.51 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT		
<u>Water Soluble Phosph Spectrometric</u>			<u>Soluble Potash STPB Citrate</u>			<u>Soluble Potash ICP (Citrate)</u>			<u>Soluble Potash Other</u>			<u>Soluble Potash</u>		
420	2.62	1.23	117	7.98	.71	096	16.49 s	37.79	322	9.35	2.18	452	8.60	.90
Avg	2.49					432	8.73	1.26	451	9.22 S	2.09	055	8.57	.77
474	2.44	-.58	Meth: 050.30 PCT			483	8.66	.95	455	9.15	1.72	023	8.56	.74
096	2.41	-.80	<u>Soluble Potash AA (Oxalate)</u>			389	8.65	.90	450	8.97 R	1.47	007	8.52	.74
Meth: 048.50 PCT			157	8.61	1.20	452	8.60	.73	027	8.64	.61	291	8.54	.66
<u>Water Soluble Phosph ICP</u>			234	8.50	.78	007	8.52	.68	325	8.50	.21	406	8.54	.66
393	2.26	.71	040	8.40	.51	023	8.56	.48	131	8.45	.15	028	8.53	.65
Meth: 048.XX PCT			Avg	8.20		291	8.54	.35	137	8.46	.12	131	8.52	.59
<u>Water Soluble Phosph</u>			185	8.15	-.19	Avg	8.47		360	8.46	.11	086	8.51	.56
420	2.62	1.35	043	8.02	-.52	377	8.40	-.33	Avg	8.41		234	8.50	.55
474	2.44	.25	351	7.56	-1.70	009	8.42	-.78	177	8.32	-.20	325	8.50	.52
Avg	2.43		Meth: 050.31 PCT			043	8.24	-1.09	474	8.19	-.51	354	8.46	.41
096	2.41	-.32	<u>Soluble Potash AA (Citrate)</u>			393	8.17	-1.40	042	8.21	-.53	131	8.45	.39
393	2.26	-1.22	Avg	7.93		475	8.11	-1.73	232	8.18	-.54	137	8.46	.38
Meth: 050.00 PCT			030	7.93	-.71	Meth: 050.60 PCT			402	8.13	-.64	057	8.39	.37
<u>Soluble Potash STPB Oxalate</u>			Avg	7.93		<u>Soluble Potash Flame (Oxalate)</u>			255	8.08	-.77	360	8.46	.37
114	8.98	1.88	254	6.62 S	-37.09	443	8.76	1.24	481	7.61	-1.85	009	8.42	.34
055	8.73	1.09	Meth: 050.50 PCT			406	8.54	.47	368	7.62 S	-1.99	211	8.44	.31
009	8.42	.24	<u>Soluble Potash ICP (Oxalate)</u>			Avg	8.40		484	5.82 s	-5.98	470	8.43	.30
211	8.44	.14	422	8.56	1.41	105	8.25	-.59	Meth: 050.XX PCT			029	8.41	.22
470	8.43	.13	055	8.57	.97	169	8.07	-1.18	<u>Soluble Potash</u>			377	8.40	.19
Avg	8.40		086	8.51	.75	Meth: 050.61 PCT			096	16.49 s	28.00	040	8.40	.18
090	8.38	-.06	354	8.46	.58	<u>Soluble Potash Flame (Citrate)</u>			322	9.35 A	3.44	106	8.35	.17
057	8.39	-.32	106	8.35	.24	095	8.66	1.57	451	9.22 s	3.30	090	8.38	.11
231	8.32	-.36	292	8.33	.10	028	8.53	.97	455	9.15	2.76	Avg	8.35	
397	8.29	-.39	Avg	8.31		131	8.52	.90	450	8.97 R	2.36	177	8.32	-.09
049	8.27	-.41	426	8.20	-.56	029	8.41	.37	114	8.98	2.18	456	8.33	-.10
102	7.70	-2.26	324	8.10	-.83	Avg	8.34		443	8.76	1.42	292	8.33	-.10
022	6.75 s	-5.30	157	8.21	-.84	456	8.33	-.10	055	8.73	1.33	049	8.27	-.27
Meth: 050.00 PCT			390	7.85	-1.97	105	8.25	-.44	432	8.73	1.32	397	8.29	-.29
<u>Soluble Potash STPB Oxalate</u>			Meth: 050.50 PCT			029	8.41	.37	422	8.56 R	1.21	231	8.32	-.29
114	8.98	1.88	<u>Soluble Potash ICP (Oxalate)</u>			Avg	8.34		157	8.61 R	1.15	105	8.25	-.36
055	8.73	1.09	422	8.56	1.41	456	8.33	-.10	027	8.64	1.10	043	8.24	-.41
009	8.42	.24	055	8.57	.97	105	8.25	-.44	483	8.66	1.09	105	8.25	-.42
211	8.44	.14	086	8.51	.75	034	8.15	-.90	483	8.66	1.09	474	8.19	-.55
470	8.43	.13	354	8.46	.58	041	8.15	-.92	095	8.66	1.07	232	8.18	-.60
Avg	8.40		106	8.35	.24	035	8.03	-1.51	389	8.65	1.05	426	8.20	-.61
090	8.38	-.06	292	8.33	.10	Meth: 050.61 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT		
057	8.39	-.32	Avg	8.31		<u>Soluble Potash Flame (Citrate)</u>			<u>Soluble Potash Other</u>			<u>Soluble Potash</u>		
231	8.32	-.36	426	8.20	-.56	095	8.66	1.57	322	9.35 A	3.44	055	8.57	.77
397	8.29	-.39	324	8.10	-.83	028	8.53	.97	451	9.22 s	3.30	023	8.56	.74
049	8.27	-.41	157	8.21	-.84	131	8.52	.90	455	9.15	2.76	007	8.52	.74
102	7.70	-2.26	390	7.85	-1.97	029	8.41	.37	450	8.97 R	2.36	291	8.54	.66
022	6.75 s	-5.30	Meth: 050.50 PCT			Avg	8.34		027	8.64	1.10	406	8.54	.66
<u>Soluble Potash STPB Oxalate</u>			<u>Soluble Potash ICP (Oxalate)</u>			456	8.33	-.10	325	8.50	.21	028	8.53	.65
114	8.98	1.88	422	8.56	1.41	105	8.25	-.44	131	8.45	.15	009	8.42	.60
055	8.73	1.09	055	8.57	.97	034	8.15	-.90	137	8.46	.12	131	8.52	.59
009	8.42	.24	086	8.51	.75	041	8.15	-.92	360	8.46	.11	086	8.51	.56
211	8.44	.14	354	8.46	.58	035	8.03	-1.51	Avg	8.41		234	8.50	.55
470	8.43	.13	106	8.35	.24	Meth: 050.61 PCT			177	8.32	-.20	325	8.50	.52
Avg	8.40		292	8.33	.10	<u>Soluble Potash Flame (Citrate)</u>			474	8.19	-.51	354	8.46	.41
090	8.38	-.06	Avg	8.31		095	8.66	1.57	042	8.21	-.53	131	8.45	.39
057	8.39	-.32	426	8.20	-.56	028	8.53	.97	232	8.18	-.54	137	8.46	.38
231	8.32	-.36	324	8.10	-.83	Avg	8.34		402	8.13	-.64	057	8.39	.37
397	8.29	-.39	157	8.21	-.84	456	8.33	-.10	255	8.08	-.77	360	8.46	.37
049	8.27	-.41	390	7.85	-1.97	105	8.25	-.44	481	7.61	-1.85	009	8.42	.34
102	7.70	-2.26	Meth: 050.50 PCT			029	8.41	.37	368	7.62 S	-1.99	211	8.44	.31
022	6.75 s	-5.30	<u>Soluble Potash ICP (Oxalate)</u>			Avg	8.34		484	5.82 s	-5.98	470	8.43	.30
<u>Soluble Potash STPB Oxalate</u>			422	8.56	1.41	105	8.25	-.59	Meth: 050.XX PCT			029	8.41	.22
114	8.98	1.88	055	8.57	.97	169	8.07	-1.18	<u>Soluble Potash</u>			377	8.40	.19
055	8.73	1.09	086	8.51	.75	Meth: 050.61 PCT			096	16.49 s	28.00	040	8.40	.18
009	8.42	.24	354	8.46	.58	<u>Soluble Potash Flame (Citrate)</u>			322	9.35 A	3.44	106	8.35	.17
211	8.44	.14	106	8.35	.24	095	8.66	1.57	451	9.22 s	3.30	090	8.38	.11
470	8.43	.13	292	8.33	.10	028	8.53	.97	455	9.15	2.76	Avg	8.35	
Avg	8.40		Avg	8.31		131	8.52	.90	450	8.97 R	2.36	177	8.32	-.09
090	8.38	-.06	426	8.20	-.56	029	8.41	.37	114	8.98	2.18	456	8.33	-.10
057	8.39	-.32	324	8.10	-.83	Avg	8.34		443	8.76	1.42	292	8.33	-.10
231	8.32	-.36	157	8.21	-.84	456	8.33	-.10	055	8.73	1.33	049	8.27	-.27
397	8.29	-.39	390	7.85	-1.97	105	8.25	-.44	432	8.73	1.32	397	8.29	-.29
049	8.27	-.41	Meth: 050.50 PCT			029	8.41	.37	422	8.56 R	1.21	231	8.32	-.29
102	7.70	-2.26	<u>Soluble Potash ICP (Oxalate)</u>			Avg	8.34		157	8.61 R	1.15	105	8.25	-.36
022	6.75 s	-5.30	422	8.56	1.41	456	8.33	-.10	027	8.64	1.10	043	8.24	-.41
<u>Soluble Potash STPB Oxalate</u>			055	8.57	.97	105	8.25	-.44	483	8.66	1.09	105	8.25	-.42
114	8.98	1.88	086	8.51	.75	034	8.15	-.90	483	8.66	1.09	474	8.19	-.55
055	8.73	1.09	354	8.46	.58	041	8.15	-.92	095	8.66	1.07	232	8.18	-.60
009	8.42	.24	106	8.35	.24	035	8.03	-1.51	389	8.65	1.05	426	8.20	-.61
211	8.44	.14	292	8.33	.10	Meth: 050.61 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT		
470	8.43	.13	Avg	8.31		<u>Soluble Potash Flame (Citrate)</u>			<u>Soluble Potash Other</u>			<u>Soluble Potash</u>		
Avg	8.40		426	8.20	-.56	095	8.66	1.57	322	9.35 A	3.44	055	8.57	.77
090	8.38	-.06	324	8.10	-.83	028	8.53	.97	451	9.22 s	3.30	023	8.56	.74
057	8.39	-.32	157	8.21	-.84	Avg	8.34		455	9.15	2.76	007	8.52	.74
231	8.32	-.36	390	7.85	-1.97	456	8.33	-.10	450	8.97 R	2.36	291	8.54	.66
397	8.29	-.39	Meth: 050.50 PCT			105	8.25	-.44	027	8.64	1.10	406	8.54	.66
049	8.27	-.41	<u>Soluble Potash ICP (Oxalate)</u>			034	8.15	-.90	325	8.50	.21	028	8.53	.65
102	7.70	-2.26	422	8.56	1.41	041	8.15	-.92						

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.XX PCT			Meth: 101.30 PCT			Meth: 121.30 PCT			Meth: 144.01 PCT			Meth: 144.99 PCT		
<u>Soluble Potash</u>			Acid Soluble Calcium			Acid Soluble Magnesi			Sulfur			Sulfur		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Gravimetric</u>			<u>Other</u>		
042	8.21	-.61	422	1.08 s	27.42	232	0.13	-.50	105	6.49	-.24	137	6.34	-.09
393	8.17	-.62	096	0.38 A	5.75	009	0.13	-.63	095	6.46	-.34	049	6.31	-.23
034	8.15	-.69	041	0.28	2.69	389	0.12	-.85	397	6.40	-.67	422	6.36	-.35
041	8.15	-.70	483	0.22	1.10	474	0.12	-1.11	231	6.14	-1.94	096	6.17	-.55
185	8.15	-.71	057	0.19 R	.93	096	0.11	-1.32	106	6.05 R	-2.47	426	6.14	-.64
402	8.13	-.75	106	0.19	.31	Meth: 121.XX PCT			Meth: 144.02 PCT			131	6.12	-.67
157	8.21 R	-.83	479	0.20	.24	<u>Acid Soluble Magnesi</u>			Sulfur			475	6.30	-.68
475	8.11	-.88	Avg	0.19		035	2.39 s	35.32	<u>Gravimetric</u>			023	6.34 R	-.81
324	8.10	-.88	102	0.18	-.29	105	0.33	2.61	292	5.57	.71	255	6.04	-.90
255	8.08	-.94	131	0.18	-.39	422	0.30	2.13	Meth: 144.70 PCT			169	5.98	-1.04
169	8.07	-.97	390	0.18	-.44	041	0.19	.49	Sulfur			354	5.84	-1.42
035	8.03	-1.12	474	0.18	-.45	Avg	0.16		<u>Spectrometric</u>			368	5.70	-1.85
043	8.02	-1.17	354	0.19	-.48	106	0.16	-.01	474	6.61	-.71	393	5.48	-2.33
117	7.98	-1.29	009	0.17	-.52	479	0.15	-.24	Meth: 144.XX PCT			<u>Sulfur</u>		
030	7.93	-1.46	232	0.16	-.81	102	0.14	-.29	360	9.07 s	7.18	055	7.43 A	2.83
390	7.85 R	-1.91	389	0.16	-1.05	354	0.14	-.33	Sulfur			157	7.03	1.71
102	7.70	-2.26	Meth: 121.00 PCT			057	0.14	-.33	<u>Other</u>			360	9.07 s	7.03
481	7.61	-2.55	Acid Soluble Magnesi			483	0.14 R	-.36	360	9.07 s	7.03	157	7.03	1.70
351	7.56	-2.73	<u>AA</u>			390	0.14	-.37	102	7.01	1.67	102	7.01	1.67
368	7.62 s	-2.77	105	0.33	-.71	131	0.13	-.43	157	7.03	1.70	300	7.00	1.63
022	6.75 s	-5.50	Meth: 121.30 PCT			232	0.13	-.53	102	7.01	1.67	481	6.90	1.35
254	6.62 s	-5.97	Acid Soluble Magnesi			009	0.13	-.57	300	7.00	1.62	389	6.85	1.23
484	5.82 s	-8.68	<u>ICP</u>			389	0.12	-.65	389	6.85	1.24	483	6.76 R	1.21
Meth: 060.00 PCT			035			474	0.12	-.73	483	6.76 R	1.21	231	6.65	.70
Free Water			2.39 s 106.35			096	0.11	-.81	231	6.65	.72	474	6.61	.68
<u>Vacuum Oven</u>			422			Meth: 144.01 PCT			479	6.64	.69	324	6.62	.67
007	1.76	1.52	041	0.19	2.51	Sulfur			452	6.60	.58	043	6.64	.67
405	1.65	.68	106	0.16	1.04	<u>Gravimetric</u>			037	6.55	.50	479	6.64	.67
Avg	1.58		483	0.14 R	.77	055	7.43 s	4.54	450	6.52	.45	452	6.60	.56
474	1.52	-.49	479	0.15	.74	481	6.90	1.79	390	6.52	.39	029	6.58	.51
456	1.51	-.58	057	0.14	.30	324	6.62	.66	009	6.40	.34	037	6.55	.48
479	1.46	-1.07	102	0.14	.28	043	6.64	.55	232	6.43	.14	102	6.55	.45
Meth: 101.30 PCT			354	0.14	.10	102	6.55	.31	291	6.43	.13	450	6.52	.43
Acid Soluble Calcium			390	0.14	.09	027	6.41	.09	027	6.41	.09	390	6.52	.36
<u>ICP</u>			Avg	0.14		029	6.58	.27	Avg	6.38		009	6.40	.35
035	2.76 s	79.10	131	0.13	-.19	Avg	6.53		351	6.37	-.09	105	6.49	.28

* 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: 144.XX PCT Sulfur</u>			<u>Meth: 151.99 PPM Arsenic</u>			<u>Meth: 181.30 PPM Cadmium</u>			<u>Meth: 190.99 PCT Water Soluble Chlori</u>			<u>Meth: 191.XX PPM Chromium</u>		
095	6.46	.19	<u>Other</u>			<u>ICP</u>			<u>Other</u>			035	104.50 s	4.76
397	6.40	.11	231	3.56	-.71	474	1.75	.11	027	6.49	.71	452	69.00	2.12
232	6.43	.11				102	1.70	.05				481	55.00 R	1.14
291	6.43	.09	<u>Meth: 151.XX PPM Arsenic</u>			Avg	1.66		<u>Meth: 190.XX PCT Water Soluble Chlori</u>			096	50.10	.72
027	6.41	.06	368	9.30	2.05	393	1.64	-.04	027	6.49	.82	450	48.50	.61
Avg	6.39		009	7.75 R	1.54	368	1.23 R	-.52	Avg	6.37		009	44.90	.34
351	6.37	-.10	450	5.00	.10	450	1.00	-.72	422	6.26	-.91	368	44.20	.30
137	6.34	-.13	Avg	4.79		096	0.09	-1.70				102	44.27	.29
049	6.31	-.27	102	3.99	-.36	<u>Meth: 181.99 PPM Cadmium</u>			<u>Meth: 191.00 PPM Chromium</u>			106	42.50	.19
422	6.36	-.37	393	3.83	-.44	<u>Other</u>			<u>Atomic Absorption</u>			232	41.80	.10
096	6.17	-.60	231	3.56	-.56	231	1.75	.71	481	55.00	.71	Avg	40.48	
231	6.14	-.68	474	3.05	-.79	<u>Meth: 181.XX PPM Cadmium</u>			<u>Meth: 191.30 PPM Chromium</u>			393	39.70	-.12
426	6.14	-.69				035	22.75 s	26.57	<u>ICP</u>			027	36.88	-.27
475	6.30 R	-.71	<u>Meth: 165.99 PCT Acid Soluble Boron</u>			009	3.50	2.35	035	104.50 s	5.11	037	30.75	-.72
131	6.12	-.73	<u>Other</u>			232	1.88	.32	452	69.00	2.19	231	17.69	-1.69
023	6.34 R	-.84	354	0.015 s	8.41	231	1.75	.25	096	50.10	.64	474	16.00	-1.82
255	6.04	-.97	483	0.007	1.95	452	1.73	.21	450	48.50	.52	<u>Meth: 202.00 PPM Acid Soluble Cobalt</u>		
106	6.05	-.99	106	0.005	.45	474	1.75	.17	009	44.90	.22	<u>AA</u>		
169	5.98	-1.11	Avg	0.004		481	1.64	.16	368	44.20	.19	474	5.00	.00
354	5.84	-1.50	232	0.004	-.36	102	1.70	.10	102	44.27	.17	<u>Meth: 202.30 PPM Acid Soluble Cobalt</u>		
368	5.70	-1.93	422	0.004	-.54	393	1.64	.03	106	42.50	.12	<u>ICP</u>		
292	5.57	-2.20	009	0.003	-.69	Avg	1.63		Avg	42.38		450	21.75	1.18
393	5.48	-2.43	389	0.003	-.76	368	1.23	-.57	232	41.80	-.06	009	21.10	1.07
<u>Meth: 151.30 PPM Arsenic</u>			<u>Meth: 181.00 PPM Cadmium</u>			<u>Meth: 190.00 PCT Water Soluble Chlori</u>			<u>Meth: 191.99 PPM Chromium</u>			<u>Meth: 191.99 PPM Chromium</u>		
<u>ICP</u>			<u>Atomic Absorption</u>			096	0.09	-1.93	027	36.88	-.46	057	20.83	1.05
368	9.30	1.82	481	1.64	.71	<u>Meth: 181.30 PPM Cadmium</u>			037	30.75	-.96	096	19.35	.80
009	7.75 R	1.36				<u>ICP</u>			474	16.00	-2.17	452	17.61	.53
Avg	5.03		<u>Meth: 181.30 PPM Cadmium</u>			035	22.75 s	22.88	368	17.50	.52	368	17.50	.52
450	5.00	-.01	009	3.50	2.00	232	1.88	.24	106	16.50	.37	102	14.20	.08
102	3.99	-.44	232	1.88	.24	452	1.73	.16	102	14.20	.17	Avg	14.18	
393	3.83	-.52				<u>Meth: 190.00 PCT Water Soluble Chlori</u>			<u>Meth: 191.99 PPM Chromium</u>			049	12.72	-.23
474	3.05	-.85	<u>ICP</u>			422	6.26	-.71	<u>Other</u>			037	12.47	-.27
									231	17.69	.71	232	12.65	-.27
												393	7.93	-.98

* 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: 202.30 PPM			Meth: 221.30 PCT			Meth: 221.XX PCT			Meth: 241.30 PCT			Meth: 241.99 PCT		
Acid Soluble Cobalt			Acid Soluble Copper			Acid Soluble Copper			Acid Soluble Iron			Acid Soluble Iron		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Other</u>		
035	3.94	-1.59	422	0.0620 s	5.24	402	0.0525	1.41	432	3.25	1.61	484	3.18	.73
422	0.00	-2.20	483	0.0597 s	4.35	368	0.0508	1.05	483	3.16	1.36	042	3.05	.53
			102	0.0525	1.61	028	0.0515	1.01	422	3.06	1.09	234	2.93	.37
Meth: 202.99 PPM			402 0.0525 1.51			231 0.0503 .69			055 3.03 1.06			Avg 2.67		
Acid Soluble Cobalt			368 0.0508 R 1.11			390 0.0507 .65			106 3.03 1.02			137 1.52 -1.60		
<u>Other</u>			452 0.0515 1.09			043 0.0505 .60			360 3.02 .99					
231	4.95	.71	390	0.0507	.79	354	0.0500	.36	324	2.98	.94	Meth: 241.XX PCT		
			009	0.0491 R	.74	481	0.0500	.36	157	2.98	.90	<u>Acid Soluble Iron</u>		
Meth: 202.XX PPM			450 0.0500 .52			450 0.0500 .36			426 2.98 .90			432 3.25 1.40		
<u>Acid Soluble Cobalt</u>			106 0.0500 .52			106 0.0500 .36			450 2.97 .86			484 3.18 1.27		
450	21.75	1.40	354	0.0500	.52	Avg	0.0491		057	2.80	.54	483	3.16	1.19
009	21.10	1.29	Avg	0.0487		095	0.0487	-.21	027	2.82	.48	028	3.12	1.12
057	20.83 R	1.27	095	0.0487	-.06	131	0.0485	-.33	009	2.80	.41	422	3.06	.95
096	19.35	1.03	131	0.0485	-.21	057	0.0481	-.55	351	2.69	.39	042	3.05	.95
452	17.61	.77	057	0.0481	-.39	009	0.0491	-.77	390	2.76	.32	055	3.03	.93
368	17.50	.75	433	0.0474	-.60	433	0.0474	-.80	354	2.72	.20	169	3.04	.92
106	16.50	.60	389	0.0470	-.66	389	0.0470	-.88	131	2.68	.10	106	3.03	.89
102	14.20	.27	096	0.0468	-.74	096	0.0468	-.97	095	2.66	.04	360	3.02	.87
232	12.65	.13	232	0.0464	-.96	232	0.0464	-1.19	Avg	2.65		324	2.98	.82
049	12.72	.05	393	0.0453	-1.35	393	0.0453	-1.61	041	2.59	-.17	029	2.98	.79
Avg	12.51		255	0.0438	-1.93	255	0.0438	-2.23	255	2.59	-.18	157	2.98	.79
037	12.47	-.01	035	0.0036 s	-17.67	035	0.0036 s	-18.84	037	2.50	-.40	426	2.98	.79
393	7.93	-.70	Meth: 221.99 PCT			Meth: 241.00 PCT			452	2.40	-.67	450	2.97	.75
474	5.00	-1.13	Acid Soluble Copper			Acid Soluble Iron			291	2.37	-.76	234	2.93	.67
231	4.95	-1.14	<u>Other</u>			<u>Atomic Absorption</u>			402	2.35	-.80	057	2.80	.47
035	3.94	-1.29	484	4.5550 S	2548.35	028	3.12	1.02	368	2.33	-.86	027	2.82	.42
422	0.00	-1.88	Avg	0.0503		169	3.04	.85	102	2.31	-.91	009	2.80	.37
Meth: 221.00 PCT			231	0.0503	-.71	029	2.98	.74	433	2.29	-.98	351	2.69	.34
Acid Soluble Copper			Meth: 221.XX PCT			Acid Soluble Iron			479	2.28	-1.00	390	2.76	.28
<u>Atomic Absorption</u>			<u>Acid Soluble Copper</u>			<u>Atomic Absorption</u>			231	1.98	-1.82	354	2.72	.18
474	0.0518	1.79	484	4.5550 s	1864.41	043	2.65	.10	232	1.97	-1.84	177	2.72	.17
028	0.0515	.31	422	0.0620 s	5.34	Avg	2.61		389	1.79	-2.32	131	2.68	.10
Avg	0.0510		483	0.0597 s	4.40	481	1.95	-1.33	475	0.84 s	-4.88	043	2.65	.08
043	0.0505	-.25	474	0.0518 R	2.24	397	1.84	-1.54	035	0.69 s	-5.27	095	2.66	.05
481	0.0500	-.36	102	0.0525	1.52	474	0.56 S	-4.07				Avg	2.64	
												041	2.59	-.13
												255	2.59	-.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: 241.XX PCT			Meth: 251.99 PPM			Meth: 261.99 PCT			Meth: 289.30 PPM			Meth: 291.30 PPM		
<u>Acid Soluble Iron</u>			<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>			<u>Nickel</u>		
037	2.50	-.34	231	12.75	.71	474	0.027	.71	037	8.33	.33	450	28.50	1.76
452	2.40	-.57	<u>Other</u>			Avg	0.027		102	8.31	.25	096	24.50	1.06
291	2.37	-.65	Meth: 251.XX PPM			483	0.022 S	-6.52	232	8.46	.17	009	22.60	.75
402	2.35	-.68	<u>Lead</u>			Meth: 261.XX PCT			Avg	8.23		102	21.50	.55
368	2.33	-.73	009	18.70	1.36	<u>Acid Soluble Manganese</u>			368	8.00	-.29	035	20.45	.39
102	2.31	-.77	452	18.59	1.28	106	0.040	2.01	452	7.79	-.37	368	20.00	.30
433	2.29	-.84	450	18.00	1.09	422	0.035 R	1.58	096	7.75	-.37	049	19.67	.26
479	2.28	-.85	037	16.79	.84	057	0.035	.90	035	7.56	-.63	232	19.25	.18
231	1.98	-1.56	049	17.23	.61	041	0.035	.79	009	7.20	-.82	Avg	18.24	
232	1.97	-1.58	102	16.65	.31	102	0.035	.58	474	5.55	-2.04	106	18.00	-.04
481	1.95	-1.63	Avg	16.02		390	0.035	.45	255	2.68 s	-4.23	037	13.74	-.76
397	1.84	-1.87	368	15.90	-.30	009	0.034	.26	Meth: 289.99 PPM			393	11.00	-1.23
389	1.79	-2.00	106	15.00	-.50	Avg	0.033		<u>Molybdenum</u>			452	9.98	-1.41
137	1.52	-2.61	393	14.41	-.80	131	0.033	-.21	<u>Other</u>			474	8.00	-1.73
475	0.84 A	-4.20	474	14.45	-.80	389	0.033	-.31	231	5.30	.71	Meth: 291.99 PPM		
035	0.69 s	-4.54	232	13.75	-1.17	096	0.032	-.33	Meth: 289.XX PPM			<u>Nickel</u>		
474	0.56 s	-4.83	231	12.75	-1.62	232	0.031	-.87	<u>Molybdenum</u>			231	8.43	-.71
Meth: 251.00 PPM			481	12.01 s	-3.23	354	0.030	-.97	422	20.95 s	6.65	Meth: 291.99 PPM		
<u>Lead</u>			Meth: 261.30 PCT			474	0.027	-1.86	057	10.42	1.42	<u>Nickel</u>		
<u>Atomic Absorption</u>			<u>Acid Soluble Manganese</u>			483	0.022 s	-3.86	433	9.91	1.15	450	28.50 R	2.12
481	12.01 S	.00	<u>ICP</u>			035	0.014 s	-5.62	450	9.50	.97	096	24.50	1.39
Meth: 251.30 PPM			106	0.040	2.15	Meth: 281.30 PPM			232	8.46	.42	009	22.60	1.06
<u>Lead</u>			422	0.035 R	1.79	<u>Mercury</u>			037	8.33	.41	102	21.50	.86
<u>ICP</u>			057	0.035	.94	<u>ICP</u>			102	8.31	.38	035	20.45	.68
009	18.70	1.35	041	0.035	.81	393	0.89	.87	368	8.00	.24	368	20.00	.59
452	18.59	1.25	102	0.035	.57	Avg	0.48		452	7.79	.13	049	19.67	.54
450	18.00	1.06	390	0.035	.35	450	0.08	-.87	096	7.75	.07	232	19.25	.46
037	16.79	.87	009	0.034	.12	Meth: 289.30 PPM			Avg	7.63		106	18.00	.23
049	17.23	.51	Avg	0.034		<u>Molybdenum</u>			035	7.56	-.24	Avg	16.70	
102	16.65	.19	131	0.033	-.38	<u>ICP</u>			474	5.55	-1.04	037	13.74	-.53
Avg	16.31		389	0.033	-.45	422	20.95 s	9.68	231	5.30	-1.17	393	11.00	-1.02
368	15.90	-.40	096	0.032	-.58	057	10.42	1.71	255	2.68	-2.47	452	9.98	-1.21
106	15.00	-.71	232	0.031	-1.19	433	9.91	1.30	Meth: 291.XX PPM			231	8.43	-1.47
393	14.41	-1.04	354	0.030	-1.33	450	9.50	1.04	<u>Nickel</u>			474	8.00	-1.55
474	14.45	-1.04	035	0.014 s	-6.74									
232	13.75	-1.45												

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 301.30 PPM Selenium			Meth: 321.30 PCT Acid Soluble Zinc			Meth: 321.XX PCT Acid Soluble Zinc								
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>								
393	0.53	.87	037	0.896 s	49.24	041	0.197	1.43	483	0.196	1.31	483	0.196	1.31
Avg	0.27		035	0.633 s	31.16	389	0.188	.82	389	0.188	.82	450	0.180	.69
450	0.00	-.87	106	0.250 s	6.86	450	0.180	.69	450	0.180	.69	452	0.181	.41
			422	0.215	2.52	452	0.181	.41	402	0.180	.37	102	0.178	.32
Meth: 311.30 PCT Sodium			041 0.197 1.36			402 0.180 .37								
<u>Flame Photometric</u>			483 0.196 1.20			102 0.178 .32								
105	0.07	.71	450 0.180 .69			049 0.176 .15								
			389 0.188 .66			Avg 0.175								
			402 0.180 .25			057 0.172 -.14								
			452 0.181 .22			095 0.173 -.15								
Meth: 311.99 PCT Sodium			Avg 0.179			009 0.174 -.19								
<u>Other</u>			049 0.176 -.18			354 0.170 -.28								
035	0.54 S	6.43	102 0.178 -.28			390 0.174 -.40								
422	0.24	1.89	009 0.174 -.37			043 0.166 -.53								
Avg	0.11		095 0.173 -.43			433 0.164 -.66								
102	0.08	-.39	057 0.172 -.43			474 0.170 -.67								
057	0.08 R	-.44	390 0.174 -.57			232 0.162 -.79								
232	0.08	-.46	354 0.170 -.59			368 0.171 R -.96								
474	0.08	-.49	433 0.164 -1.02			131 0.158 -1.04								
009	0.07	-.55	232 0.162 -1.17			231 0.154 -1.23								
			368 0.171 R -1.18			481 0.140 -2.10								
			131 0.158 -1.45											
Meth: 311.XX PCT Sodium			Meth: 321.99 PCT Acid Soluble Zinc			Meth: 325.30 PCT Water Soluble Zinc								
035	0.54 s	7.04	<u>Other</u>			<u>ICP</u>								
422	0.24	2.14	474 0.170 1.23			393 0.150 .00								
Avg	0.10		Avg 0.155											
102	0.08	-.33	231 0.154 -.05			Meth: 325.99 PCT Water Soluble Zinc								
057	0.08 R	-.39	481 0.140 -.99			<u>Other</u>								
232	0.08	-.41				450 0.180 .71								
474	0.08	-.44												
105	0.07	-.45												
009	0.07	-.51												
Meth: 321.00 PCT Acid Soluble Zinc			Meth: 321.XX PCT Acid Soluble Zinc			Meth: 325.XX PCT Water Soluble Zinc								
<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>								
043	0.166	.71	037	0.896 s	43.74	450	0.180	.94	450	0.180	.94	Avg	0.165	
			035	0.633 s	27.76	393	0.150	-.78	393	0.150	-.78			
			106	0.250 s	6.24									
			422	0.215	2.47									

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Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.10	5	- 0.39	1.27	0.58	050.99	18	- 0.26	1.82	0.35
001.99	8	7.04	19.93	0.09	050.XX	69	0.18	3.86	0.37
001.XX	13	5.20	19.01	0.19	060.00	5	0.00	1.03	0.22
002.99	2	0.00	1.22	0.01	060.XX	5	0.00	1.03	0.22
002.XX	2	0.00	1.22	0.01	101.30	16	7.02	20.43	0.40
003.10	2	0.00	0.92	0.57	101.XX	16	7.02	20.43	0.40
003.99	2	0.00	1.21	0.12	121.30	16	7.13	26.54	0.33
003.XX	4	0.00	1.05	0.22	121.XX	17	2.06	8.62	0.11
005.00	2	0.00	1.22	0.09	144.01	11	0.19	1.81	0.43
005.99	4	0.00	1.08	0.04	144.99	30	0.26	1.59	0.30
005.XX	6	0.00	1.05	0.04	144.XX	41	0.23	1.51	0.33
010.11	8	- 0.56	1.83	0.32	151.30	6	0.19	1.06	0.29
010.12	6	- 2.40	13.23	2.03	151.XX	7	0.19	1.08	0.29
010.60	57	0.02	2.01	0.55	165.99	7	1.093	3.037	1.341
010.99	7	- 0.76	1.69	0.13	165.XX	7	1.093	3.037	1.341
010.XX	76	- 0.23	3.33	0.70	181.30	10	2.24	7.31	0.10
020.10	5	0.00	0.88	0.53	181.XX	12	2.21	7.73	0.13
020.20	16	- 0.05	0.96	0.42	190.XX	2	0.00	0.81	0.65
020.40	7	0.03	0.95	0.59	191.30	13	0.39	1.72	0.08
020.50	15	0.00	0.92	0.42	191.XX	15	0.39	1.56	0.12
020.99	4	0.00	0.85	0.57	202.30	14	0.00	1.01	0.10
020.XX	45	0.04	1.06	0.55	202.XX	16	0.08	1.03	0.09
030.50	2	0.00	1.12	0.35	221.00	4	0.0000	0.3164	0.8944
030.XX	4	0.00	1.08	0.08	221.30	21	- 0.341	4.3085	0.3310
040.XX	5	0.00	0.42	0.87	221.99	2	1274.1	1801.9	14.008
041.10	12	0.33	1.07	1.17	221.XX	27	68.752	358.87	2.8313
041.40	3	0.00	0.63	0.75	241.00	8	- 0.51	1.73	0.11
041.50	13	- 0.82	2.86	0.44	241.30	33	- 0.31	1.56	0.15
041.60	9	- 0.49	1.64	0.60	241.99	4	0.00	1.07	0.10
041.XX	33	- 0.43	2.36	0.75	241.XX	45	- 0.30	1.49	0.13
048.20	3	0.00	1.04	0.34	251.30	11	0.00	0.95	0.37
048.XX	4	0.00	1.05	0.23	251.XX	13	- 0.15	1.07	0.78
050.00	12	- 0.44	1.80	0.19	261.30	13	- 0.487	2.066	0.609
050.30	6	0.00	1.01	0.25	261.99	2	- 1.925	2.722	3.756
050.31	2	- 18.53	26.20	1.21	261.XX	15	- 0.560	1.855	0.713
050.50	10	0.00	0.86	0.53	281.30	2	0.00	1.22	0.07
050.51	13	2.91	10.52	0.40	281.XX	2	0.00	1.22	0.07
050.60	4	0.00	1.06	0.17	289.30	14	0.39	3.04	0.24
050.61	9	0.00	1.02	0.13	289.XX	15	0.44	1.97	0.15

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
291.30	13	0.00	1.01	0.10					
291.XX	14	0.15	1.13	0.10					
301.30	2	0.00	1.22	0.00					
301.XX	2	0.00	1.22	0.00					
311.99	7	0.86	2.60	0.16					
311.XX	8	0.83	2.66	0.17					
321.30	21	4.037	12.435	1.109					
321.99	3	0.000	1.011	0.390					
321.XX	25	3.034	10.193	0.907					