

AFPC

Sample

2008-07B

Grade

0-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	0.11	0.00
Method Group 001.XX PCT			1	0.11	0.00
TOTAL NITROGEN					
Total Nitrogen, Combustion	993.13	010.60	4	0.13	0.06
Method Group 010.XX PCT			4	0.13	0.07
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	4	46.78	0.59
Total Phosphate, Spectrometric	978.02	020.20	12	47.07	0.22
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	47.92	0.00
Total Phosphate, Automated	970.03	020.40	3	46.00	0.99
Total Phosphate, Other	993.13	020.99	5	47.20	0.58
Method Group 020.XX PCT			25	47.07	0.50
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.29	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	8	8.15	1.29
Insoluble Phosphate, Automated	978.01	030.40	1	6.05	0.00
Insoluble Phosphate, Other		030.99	2	2.05	0.82
Method Group 030.XX PCT			12	7.40	3.01
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	46.23	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	38.69	1.42
Indirect Available Phosphate, Other		040.99	3	44.44	1.95
Method Group 040.XX PCT			13	39.54	2.67
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	4	37.53	2.11
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	40.31	0.00
Direct Available Phosphate, Automated	978.01	041.40	2	38.30	2.20

Direct Available Phosphate, ICP		041.50	4	36.85	0.64
Direct Available Phosphate, EDTA Extract	993.01	041.60	2	44.46	1.57
Method Group 041.XX PCT			13	37.35	4.37
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	43.16	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	10	34.00	0.38
Water Soluble Phosphate, Other		048.99	2	32.79	0.26
Method Group 048.XX PCT			13	33.90	0.53
SOLUBLE POTASH AS K₂O					
Soluble Potash, STPB Oxalate	958.02	050.00	1	0.30	0.00
Soluble Potash, ICP(Citrate)		050.51	2	0.32	0.02
Soluble Potash, Other		050.99	6	0.30	0.03
Method Group 050.XX PCT			9	0.30	0.04
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	9	0.68	0.03
Free Water, Vacuum Desiccate	965.08A	060.10	2	0.70	0.00
Free Water, Other		060.99	1	1.45	0.00
Method Group 060.XX PCT			12	0.70	0.04
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	10	29.68	0.86
Acid Soluble Calcium, Titrimetric	945.03	101.70	1	29.76	0.00
Acid Soluble Calcium, Other		101.99	1	30.67	0.00
Method Group 101.XX PCT			12	29.73	0.99
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	2	0.45	0.01
Acid Soluble Magnesium, ICP		121.30	13	0.49	0.01
Method Group 121.XX PCT			15	0.48	0.02
WATER SOLUBLE MAGNESIUM					
Water Soluble Magnesium, Atomic Absorption	965.09	131.00	7	0.25	0.08
Method Group 131.XX PCT			7	0.25	0.10
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	5	0.46	0.03
Sulfur, Gravimetric	980.02(b)	144.02	1	0.42	0.00

Sulfur, Spectrometric		144.70	2	0.58	0.00
Sulfur, Other		144.99	6	0.47	0.33
Method Group 144.XX PCT			14	0.47	0.11
TOTAL SULFUR (S)					
Sulfur, Other		145.99	2	0.52	0.11
Method Group 145.XX PCT			2	0.52	0.14
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	7	29	5.0
Total Arsenic, Other		151.99	2	30	0.8
Method Group 151.XX PPM			9	29	2.4
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	4	17	87.5
Method Group 165.XX PPM			4	17	106.6
TOTAL CADMIUM					
Total Cadmium, Atomic Absorbtion		181.00	2	99	1.7
Total Cadmium, ICP		181.30	10	100	3.8
Total Cadmium, Other		181.99	2	110	1.5
Method Group 181.XX PPM			14	100	8.7
ALUMINUM AS Al₂O₃					
ICP, %			12	0.48	0.03
Water Soluble Chlorine, Other, %		190.99	1	0.49	0.00
Method Group 190.XX PCT			13	0.48	0.03
TOTAL CHROMIUM					
Total Chromium, Atomic Absorbtion		191.00	1	364	0.0
Total Chromium, ICP		191.30	10	348	19.4
Total Chromium, Other		191.99	1	349	0.0
Method Group 191.XX PPM			12	350	23.1
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	7	2	0.0
Acid Soluble Cobalt, Other		202.99	1	2	0.0
Method Group 202.XX PPM			8	2	0.1
ACID SOLUBLE COPPER					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0	0.0

Acid Soluble Copper, ICP		221.30	6	49	2.1
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			8	48	2.6
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	12	0.42	0.01
Acid Soluble Iron, Other		241.99	1	0.36	0.00
Method Group 241.XX PCT			16	0.42	0.02
TOTAL LEAD					
Total Lead, ICP		251.30	5	5	0.7
Total Lead, Other		251.99	1	4	0.0
Method Group 251.XX PPM			6	4	0.9
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, Atomic Absorption	972.02a	261.00	1	150	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	8	145	13.7
Acid Soluble Manganese, Other		261.99	3	151	1.3
Method Group 261.XX PPM			12	148	8.7
WATER SOLUBLE MANGANESE					
Water Soluble Manganese, Other		271.99	1	135	0
Method Group 271.XX PCT			1	135	0.0
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	7	5	0.5
Total Molybdenum, Other		289.99	2	5	0.1
Method Group 289.XX PPM			9	5	0.4
TOTAL NICKEL					
Total Nickel, Atomic Absorbtion		291.00	1	38	0.0
Total Nickel, ICP		291.30	9	36	1.9
Total Nickel, Other		291.99	1	36	0.0
Method Group 291.XX PPM			11	36	2.3
TOTAL SELENIUM					
Total Selenium, ICP		301.30	3	5	2.1
Total Selenium, Other		301.99	1	0	0.0
Method Group 301.XX PPM			4	3	4.2
SODIUM AS Na₂O					

Sodium, Atomic Absorbtion	983.04	311.00	4	0.47	0.03
Sodium, Other		311.99	5	0.49	0.01
Method Group 311.XX PCT			9	0.49	0.04
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	230.0	0.0
Acid Soluble Zinc, ICP		321.30	11	251.5	24.3
Method Group 321.XX PPM			12	244.8	28.4
FLUORIDE					
Water Soluble Zinc, Atomic Absorption		325.00	1	2.23	0.00
Volumetric		325.10	10	2.22	0.22
Distilled/Electrode		325.99	2	2.34	0.01
Method Group 325.XX PCT			13	2.23	0.31