

AFPC

Sample

2007-05

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	3	17.03	0.02
Ammoniacal Nitrogen, Other		001.99	5	17.27	0.04
Method Group 001.XX PCT			8	17.15	0.23
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	17.03	0.04
Total Nitrogen, Salicylic	955.04d	010.12	2	17.17	0.00
Total Nitrogen, Combustion	993.13	010.60	29	17.24	0.16
Total Nitrogen, Other		010.99	6	17.22	0.06
Method Group 010.XX PCT			41	17.19	0.19
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	3	47.27	0.39
Total Phosphate, Spectrometric	978.02	020.20	17	47.21	0.33
Total Phosphate, Automated	970.03	020.40	5	47.37	0.12
Total Phosphate, ICP	970.02	020.50	1	47.54	0.00
Total Phosphate, Other	993.13	020.99	2	46.79	0.03
Method Group 020.XX PCT			28	47.26	0.47
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.05	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	0.03	0.01
Insoluble Phosphate, Automated	978.01	030.40	3	0.03	0.00
Insoluble Phosphate, ICP		030.50	2	0.06	0.00
Method Group 030.XX PCT			17	0.03	0.02
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	46.80	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	8	47.01	0.20
Indirect Available Phosphate, Automated	960.02	040.40	4	47.27	0.03
Indirect Available Phosphate, Other		040.99	2	47.24	0.01

Method Group 040.XX PCT			15	47.22	0.28
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	10	47.11	0.47
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	45.52	0.00
Direct Available Phosphate, Automated	978.01	041.40	4	47.03	0.03
Direct Available Phosphate, ICP		041.50	3	46.80	0.42
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	47.04	0.10
Method Group 041.XX PCT			21	47.02	0.31
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	42.68	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	9	43.59	0.21
Water Soluble Phosphate, Other		048.99	6	43.88	0.49
Method Group 048.XX PCT			16	43.61	0.32
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Citrate)		050.51	2	0.16	0.00
Soluble Potash, Other		050.99	9	0.14	0.01
Method Group 050.XX PCT			11	0.14	0.02
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	18	1.01	0.26
Free Water, Vacuum Desiccate	965.08A	060.10	2	0.93	0.10
Method Group 060.XX PCT			20	1.01	0.29
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	20	0.48	0.03
Method Group 101.XX PCT			20	0.48	0.03
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	19	0.71	0.04
Method Group 121.XX PCT			19	0.71	0.04
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	2	1.79	0.00
Sulfur, Other		144.99	18	1.72	0.08
Method Group 144.XX PCT			20	1.72	0.09
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	6	14	1.9

Total Arsenic, Other	151.99	3	15	0.4
Method Group 151.XX PPM		9	14	1.7
ACID SOLUBLE BORON				
Acid Soluble Boron, Other	165.99	4	251	333.0
Method Group 165.XX PPM		4	251	405.7
TOTAL CADMIUM				
Total Cadmium, Atomic Absorbtion	181.00	1	5	0.0
Total Cadmium, ICP	181.30	11	4	0.4
Total Cadmium, Other	181.99	1	4	0.0
Method Group 181.XX PPM		13	4	0.5
ALUMINUM AS Al₂O₃				
ICP, %		19	1.69	0.08
Water Soluble Chlorine, Other, %	190.99	1	1.93	0.00
Method Group 190.XX PCT		20	1.70	0.09
TOTAL CHROMIUM				
Total Chromium, ICP	191.30	8	88	4.8
Total Chromium, Other	191.99	2	97	15.3
Method Group 191.XX PPM		10	88	8.4
ACID SOLUBLE COBALT				
Acid Soluble Cobalt, ICP	202.30	10	2	0.6
Acid Soluble Cobalt, Other	202.99	1	2	0.0
Method Group 202.XX PPM		11	2	0.7
ACID SOLUBLE COPPER				
Acid Soluble Copper, ICP	221.30	5	1	0.1
Method Group 221.XX PPM		5	1	0.1
ACID SOLUBLE IRON AS Fe₂O₃				
Acid Soluble Iron, Atomic Absorption	980.01 241.00	1	1.18	0.00
Acid Soluble Iron, ICP	241.30	20	1.17	0.07
Method Group 241.XX PCT		21	1.18	0.08
TOTAL LEAD				
Total Lead, ICP	251.30	9	2	3.0
Method Group 251.XX PPM		9	2	3.6
ACID SOLUBLE MANGANESE				

Acid Soluble Manganese, ICP	972.02a	261.30	5	352	5.3
Acid Soluble Manganese, Other		261.99	4	341	22.1
Method Group 261.XX PPM			9	350	19.1
WATER SOLUBLE MANGANESE					
Method Group 271.XX PCT			1	0.04	0
TOTAL MERCURY					
Total Mercury, ICP		281.30	1	4	0.00
Method Group 281.XX PPM			1	4	0.00
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	11	16	1.4
Total Molybdenum, Other		289.99	1	17	0.0
Method Group 289.XX PPM			12	17	1.7
TOTAL NICKEL					
Total Nickel, ICP		291.30	12	11	1.3
Total Nickel, Other		291.99	1	12	0.0
Method Group 291.XX PPM			13	11	2.0
TOTAL SELENIUM					
Total Selenium, ICP		301.30	3	<1	13.6
Method Group 301.XX PPM			3	14	16.5
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	2	0.17	0.00
Sodium, Other		311.99	9	0.16	0.03
Method Group 311.XX PCT			11	0.16	0.02
ACID SOLUBLE ZINC					
Acid Soluble Zinc, ICP		321.30	11	68	5.0
Acid Soluble Zinc, Other		321.99	2	62	1.5
Method Group 321.XX PPM			13	67	6.1
FLUORIDE					
Electrode		325.10	14	2.50	0.07
Electrode	AFPC	325.30	4	2.66	0.03
Distilled/Electrode		325.99	2	2.64	0.00
Method Group 325.XX PCT			20	2.53	0.14