

AFPC

Sample

2007-07

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	2	17.25	0.04
Ammoniacal Nitrogen, Other		001.99	7	17.25	0.54
Method Group 001.XX PCT			9	17.25	0.60
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	17.93	0.27
Total Nitrogen, Salicylic	955.04d	010.12	1	17.77	0.00
Total Nitrogen, Combustion	993.13	010.60	29	17.82	0.19
Total Nitrogen, Other		010.99	4	17.51	0.08
Method Group 010.XX PCT			39	17.82	0.25
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	46.46	0.33
Total Phosphate, Spectrometric	978.02	020.20	15	45.86	0.17
Total Phosphate, Automated	970.03	020.40	5	46.11	0.22
Total Phosphate, Other	993.13	020.99	1	46.15	0.00
Method Group 020.XX PCT			23	45.92	0.29
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	10	0.32	0.08
Insoluble Phosphate, Automated	978.01	030.40	3	0.29	0.03
Insoluble Phosphate, ICP		030.50	2	0.19	0.01
Method Group 030.XX PCT			15	0.29	0.08
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	10	45.45	0.15
Indirect Available Phosphate, Automated	960.02	040.40	4	45.75	0.11
Indirect Available Phosphate, Other		040.99	1	45.62	0.00
Method Group 040.XX PCT			15	45.62	0.22
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	7	45.87	0.17

Direct Available Phosphate, Spectrometric	960.03D	041.20	3	45.69	0.50
Direct Available Phosphate, Automated	978.01	041.40	4	46.04	0.24
Direct Available Phosphate, ICP		041.50	5	44.03	0.82
Direct Available Phosphate, EDTA Extract	993.01	041.60	2	45.63	0.07
Method Group 041.XX PCT			21	45.76	0.52

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Spectrometric	970.01	048.20	8	41.58	0.18
Water Soluble Phosphate, Other		048.99	5	41.53	0.07
Method Group 048.XX PCT			13	41.58	0.25

SOLUBLE POTASH AS K₂O

Soluble Potash, Atomic Absorption(Oxalate)		050.30	1	0.37	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.10	0.00
Soluble Potash, Flame Photometric(Citrate)	983.02B(b)	050.61	1	0.01	0.00
Soluble Potash, Other		050.99	9	0.14	0.01
Method Group 050.XX PCT			12	0.14	0.02

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	12	2.25	0.27
Free Water, Vacuum Desiccate	965.08A	060.10	2	2.02	0.03
Method Group 060.XX PCT			14	2.21	0.32

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, ICP		101.30	18	0.46	0.03
Method Group 101.XX PCT			18	0.46	0.04

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.40	0.00
Acid Soluble Magnesium, ICP		121.30	18	1.49	0.04
Method Group 121.XX PCT			19	1.48	0.06

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	2	1.40	0.01
Sulfur, Other		144.99	16	1.27	0.05
Method Group 144.XX PCT			18	1.27	0.12

TOTAL ARSENIC

Total Arsenic, ICP	980.02(b)	151.02	5	10	2.3
Total Arsenic, Other		151.99	3	12	1.0

Method Group 151.XX PPM			8	11	2.5
ACID SOLUBLE BORON					
Acid Soluble Boron, Other	165.99		4	46	83.7
Method Group 165.XX PPM			4	46	101.9
TOTAL CADMIUM					
Total Cadmium, ICP	181.30		9	3	0.4
Total Cadmium, Other	181.99		1	3	0.0
Method Group 181.XX PPM			10	3	0.4
ALUMINUM AS Al₂O₃					
ICP, %			18	1.42	0.06
Method Group 190.XX PCT			18	1.42	0.07
TOTAL CHROMIUM					
Total Chromium, ICP	191.30		10	110	4.7
Total Chromium, Other	191.99		1	123	0.0
Method Group 191.XX PPM			11	111	5.8
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP	202.30		9	3	0.3
Acid Soluble Cobalt, Other	202.99		1	3	0.0
Method Group 202.XX PPM			10	3	0.3
ACID SOLUBLE COPPER					
Acid Soluble Copper, ICP	221.30		6	1	0.1
Acid Soluble Copper, Other	221.99		1	0	0.0
Method Group 221.XX PPM			7	1	0.1
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, Atomic Absorption	980.01	241.00	1	1.35	0.00
Acid Soluble Iron, ICP		241.30	19	1.40	0.07
Method Group 241.XX PCT			20	1.40	0.08
TOTAL LEAD					
Total Lead, ICP		251.30	6	2	0.7
Total Lead, Other		251.99	1	2	0.0
Method Group 251.XX PPM			7	2	0.7
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	6	280	4.8

Acid Soluble Manganese, Other	261.99	4	275	12.4
Method Group 261.XX PPM		10	279	8.0
WATER SOLUBLE MANGANESE				
Method Group 271.XX PCT		1	0.04	0
TOTAL MOLYBDENUM				
Total Molybdenum, ICP	289.30	9	8	0.8
Total Molybdenum, Other	289.99	1	9	0.0
Method Group 289.XX PPM		10	8	1.0
TOTAL NICKEL				
Total Nickel, ICP	291.30	10	11	0.8
Total Nickel, Other	291.99	1	12	0.0
Method Group 291.XX PPM		11	11	1.0
TOTAL SELENIUM				
Total Selenium, Other	301.99	1	0	0.0
Method Group 301.XX PPM		1	0	0.0
SODIUM AS Na₂O				
Sodium, Atomic Absorbtion	983.04 311.00	2	0.25	0.01
Sodium, Other	311.99	9	0.24	0.03
Method Group 311.XX PCT		11	0.24	0.03
ACID SOLUBLE ZINC				
Acid Soluble Zinc, ICP	321.30	9	41	1.8
Acid Soluble Zinc, Other	321.99	2	38	0.4
Method Group 321.XX PPM		11	41	3.6
FLUORIDE				
Volumetric	325.10	10	2.19	0.08
Electrode	AFPC 325.30	2	1.71	0.01
Distilled/Electrode	325.99	2	2.07	0.02
Method Group 325.XX PCT		14	2.13	0.15