

AFPC

Sample

2009-10

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	2	16.94	0.07
Ammoniacal Nitrogen, Other		001.99	12	17.22	0.15
Method Group 001.XX PCT			14	17.20	0.18
NITRATE NITROGEN					
Nitrate Nitrogen, Other		002.99	1	0.43	0.00
Method Group 002.XX PCT			1	0.43	0.00
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	1	17.55	0.00
Total Nitrogen, Salicylic	955.04d	010.12	2	17.41	0.10
Total Nitrogen, Raney	970.03	010.16	1	16.99	0.00
Total Nitrogen, Combustion	993.13	010.60	28	17.72	0.09
Total Nitrogen, Other		010.99	3	17.51	0.15
Method Group 010.XX PCT			35	17.70	0.20
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	46.56	0.28
Total Phosphate, Spectrometric	978.02	020.20	21	46.12	0.23
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	46.01	0.00
Total Phosphate, ICP	970.03	020.40	3	46.17	1.03
Total Phosphate, ICP, Lithium	970.02	020.50	1	43.68	0.00
Method Group 020.XX PCT			28	46.13	0.28
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	13	0.31	0.05
Insoluble Phosphate, Automated	978.01	030.40	1	0.28	0.00
Method Group 030.XX PCT			14	0.31	0.06
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	13	45.89	0.11
Indirect Available Phosphate, Automated	960.02	040.40	1	45.84	0.00

Indirect Available Phosphate, Other		040.99	2	47.30	1.01
Method Group 040.XX PCT			16	45.89	0.15

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	5	46.10	0.12
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	45.74	0.05
Direct Available Phosphate, Automated	978.01	041.40	5	45.96	0.04
Direct Available Phosphate, ICP		041.50	4	45.32	0.41
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	45.77	0.87
Method Group 041.XX PCT			19	45.88	0.38

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Spectrometric	970.01	048.20	14	41.38	0.33
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	41.20	0.00
Water Soluble Phosphate, Other		048.99	1	41.43	0.00
Method Group 048.XX PCT			16	41.36	0.39

SOLUBLE POTASH AS K₂O

Soluble Potash, ICP(Oxalate)		050.50	2	0.14	0.00
Soluble Potash, Other		050.99	5	0.14	0.01
Method Group 050.XX PCT			7	0.14	0.01

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	13	2.77	0.15
Free Water, Vacuum Desiccate	965.08A	060.10	3	2.69	0.23
Free Water, Other		060.99	1	2.60	0.00
Method Group 060.XX PCT			17	2.76	0.21

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, ICP		101.30	17	0.33	0.02
Method Group 101.XX PCT			17	0.33	0.03

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, ICP		121.30	17	1.35	0.04
Method Group 121.XX PCT			17	1.35	0.05

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	4	1.06	0.00
Sulfur, Spectrometric		144.70	2	0.95	0.01
Sulfur, Other		144.99	8	0.95	0.02

Method Group 144.XX PCT			14	0.96	0.10
TOTAL SULFUR (S)					
Sulfur, Other	145.99		4	0.89	0.05
Method Group 145.XX PCT			4	0.89	0.06
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	4	15	2.1
Method Group 151.XX PPM			4	15	2.6
ACID SOLUBLE BORON					
Acid Soluble Boron, Other	165.99		3	38	21.5
Method Group 165.XX PPM			3	38	26.2
TOTAL CADMIUM					
Total Cadmium, Atomic Absorbtion	181.00		1	4	0.0
Total Cadmium, ICP	181.30		6	4	0.0
Total Cadmium, Other	181.99		1	4	0.0
Method Group 181.XX PPM			8	4	0.1
ALUMINUM AS Al₂O₃					
ICP, %			12	1.32	0.02
Method Group 190.XX PCT			12	1.32	0.02
TOTAL CHROMIUM					
Total Chromium, ICP	191.30		6	101	6.4
Total Chromium, Other	191.99		1	93	0.0
Method Group 191.XX PPM			7	100	8.5
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP	202.30		5	5	0.6
Acid Soluble Cobalt, Other	202.99		1	4	0.0
Method Group 202.XX PPM			6	5	0.6
ACID SOLUBLE COPPER					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	2	0.0
Acid Soluble Copper, ICP		221.30	4	4	0.6
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			5	4	0.7
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	15	1.93	0.04

Method Group 241.XX PCT			16	1.93	0.06
TOTAL LEAD					
Total Lead, ICP		251.30	4	2	0.5
Total Lead, Other		251.99	1	2	0.0
Method Group 251.XX PPM			5	2	0.5
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	5	261	7.5
Acid Soluble Manganese, Other		261.99	3	262	6.5
Method Group 261.XX PPM			8	261	10.8
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	5	10	0.0
Total Molybdenum, Other		289.99	1	10	0.0
Method Group 289.XX PPM			6	10	0.3
TOTAL NICKEL					
Total Nickel, ICP		291.30	4	17	0.5
Total Nickel, Other		291.99	1	18	0.0
Method Group 291.XX PPM			5	17	0.5
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.20	0.00
Sodium, Other		311.99	8	0.20	0.03
Method Group 311.XX PCT			9	0.20	0.03
ACID SOLUBLE ZINC					
Acid Soluble Zinc, ICP		321.30	7	44.0	3.5
Method Group 321.XX PPM			7	44.0	4.3
FLUORIDE					
Volumetric		325.10	13	2.19	0.12
Distilled/Electrode		325.99	2	2.21	0.01
Method Group 325.XX PCT			15	2.19	0.14