

AFPC

Sample

2008-09

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	2	17.45	0.14
Ammoniacal Nitrogen, Other		001.99	8	17.97	0.06
Method Group 001.XX PCT			10	17.96	0.29
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	17.87	0.43
Total Nitrogen, Salicylic	955.04d	010.12	2	17.95	0.04
Total Nitrogen, Combustion	993.13	010.60	25	18.00	0.10
Total Nitrogen, Other		010.99	5	18.03	0.03
Method Group 010.XX PCT			37	18.01	0.14
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	46.71	0.08
Total Phosphate, Spectrometric	978.02	020.20	21	46.66	0.18
Total Phosphate, Alka. Quimociac	955.04d	020.30	2	46.61	0.21
Total Phosphate, ICP	970.03	020.40	2	46.90	0.04
Method Group 020.XX PCT			27	46.67	0.24
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.11	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	13	0.05	0.02
Insoluble Phosphate, Automated	978.01	030.40	2	0.05	0.01
Method Group 030.XX PCT			16	0.05	0.03
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	12	46.55	0.10
Indirect Available Phosphate, Other		040.99	3	46.83	0.45
Method Group 040.XX PCT			16	46.57	0.21
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	6	46.85	0.11

Direct Available Phosphate, Spectrometric	960.03D	041.20	1	44.13	0.00
Direct Available Phosphate, Automated	978.01	041.40	3	47.06	0.50
Direct Available Phosphate, ICP		041.50	4	46.05	0.24
Direct Available Phosphate, EDTA Extract	993.01	041.60	2	46.79	0.04
Method Group 041.XX PCT			16	46.75	0.71

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	41.59	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	14	43.12	0.48
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	42.10	0.00
Water Soluble Phosphate, Other		048.99	3	43.81	0.25
Method Group 048.XX PCT			19	43.21	0.82

SOLUBLE POTASH AS K₂O

Soluble Potash, ICP(Oxalate)		050.50	2	0.18	0.00
Soluble Potash, Other		050.99	7	0.16	0.00
Method Group 050.XX PCT			9	0.16	0.02

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	15	1.66	0.07
Free Water, Vacuum Desiccate	965.08A	060.10	2	1.75	0.19
Method Group 060.XX PCT			17	1.66	0.09

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, ICP		101.30	16	0.54	0.03
Method Group 101.XX PCT			16	0.54	0.04

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, ICP		121.30	17	1.75	0.07
Method Group 121.XX PCT			17	1.75	0.08

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	4	1.92	0.08
Sulfur, Spectrometric		144.70	2	1.88	0.00
Sulfur, Other		144.99	11	1.85	0.11
Method Group 144.XX PCT			17	1.88	0.09

TOTAL SULFUR (S)

Sulfur, Other		145.99	3	1.66	0.04
Method Group 145.XX PCT			3	1.66	0.05

TOTAL ARSENIC

Total Arsenic, ICP	980.02(b)	151.02	3	1	2.6
Total Arsenic, Other		151.99	1	2	0.0
Method Group 151.XX PPM			4	1	1.7

ACID SOLUBLE BORON

Acid Soluble Boron, Other		165.99	1	82	0.0
Method Group 165.XX PPM			1	82	0.0

TOTAL CADMIUM

Total Cadmium, ICP		181.30	9	36	2.1
Total Cadmium, Other		181.99	1	40	0.0
Method Group 181.XX PPM			10	36	2.9

ALUMINUM AS Al₂O₃

ICP, %			14	0.48	0.01
Water Soluble Chlorine, Other, %		190.99	1	0.48	0.00
Method Group 190.XX PCT			15	0.48	0.01

TOTAL CHROMIUM

Total Chromium, ICP		191.30	8	237	9.6
Total Chromium, Other		191.99	1	233	0.0
Method Group 191.XX PPM			9	235	10.5

ACID SOLUBLE COBALT

Acid Soluble Cobalt, ICP		202.30	7	2	0.7
Acid Soluble Cobalt, Other		202.99	1	1	0.0
Method Group 202.XX PPM			8	1	0.9

ACID SOLUBLE COPPER

Acid Soluble Copper, ICP		221.30	6	1	0.6
Method Group 221.XX PPM			6	1	0.7

ACID SOLUBLE IRON AS Fe₂O₃

Acid Soluble Iron, ICP		241.30	17	0.84	0.01
Method Group 241.XX PCT			17	0.84	0.02

TOTAL LEAD

Total Lead, ICP		251.30	3	1	0.0
Total Lead, Other		251.99	1	1	0.0
Method Group 251.XX PPM			4	1	0.0

ACID SOLUBLE MANGANESE

Acid Soluble Manganese, ICP	972.02a	261.30	3	49	2.1
Acid Soluble Manganese, Other		261.99	5	50	0.4
Method Group 261.XX PPM			8	50	1.5

TOTAL MERCURY

Total Mercury, ICP		281.30	1	0.00	0.00
Method Group 281.XX PPM			1	1.00	0.00

TOTAL MOLYBDENUM

Total Molybdenum, ICP		289.30	8	4	0.4
Total Molybdenum, Other		289.99	1	4	0.0
Method Group 289.XX PPM			9	4	0.3

TOTAL NICKEL

Total Nickel, ICP		291.30	7	23	1.2
Total Nickel, Other		291.99	1	27	0.0
Method Group 291.XX PPM			8	23	2.0

TOTAL SELENIUM

Total Selenium, ICP		301.30	1	1	0.0
Method Group 301.XX PPM			1	1	0.0

SODIUM AS Na₂O

Sodium, Atomic Absorbtion	983.04	311.00	2	0.25	0.00
Sodium, Other		311.99	6	0.27	0.02
Method Group 311.XX PCT			8	0.26	0.02

ACID SOLUBLE ZINC

Acid Soluble Zinc, ICP		321.30	8	515.5	19.9
Acid Soluble Zinc, Other		321.99	2	469.8	1.3
Method Group 321.XX PPM			10	508.0	48.1

FLUORIDE

Water Soluble Zinc, Atomic Absorption		325.00	1	1.26	0.00
Volumetric		325.10	11	1.28	0.09
Distilled/Electrode		325.99	2	1.25	0.01
Method Group 325.XX PCT			14	1.26	0.08