

AFPC

Sample

2008-10

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	3	10.77	0.06
Ammoniacal Nitrogen, Other		001.99	9	10.73	0.17
Method Group 001.XX PCT			12	10.73	0.16
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	11.08	0.08
Total Nitrogen, Salicylic	955.04d	010.12	2	10.94	0.02
Total Nitrogen, Comprehensive	970.02	010.17	1	11.07	0.00
Total Nitrogen, Combustion	993.13	010.60	24	10.98	0.13
Total Nitrogen, Other		010.99	3	10.98	0.07
Method Group 010.XX PCT			33	10.98	0.15
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	52.36	0.01
Total Phosphate, Spectrometric	978.02	020.20	17	52.47	0.15
Total Phosphate, Alka. Quimociac	955.04d	020.30	2	52.13	0.73
Total Phosphate, ICP	970.03	020.40	3	52.10	0.23
Total Phosphate, ICP	970.02	020.50	1	52.88	0.00
Total Phosphate, Other	993.13	020.99	2	52.73	0.10
Method Group 020.XX PCT			27	52.45	0.37
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.06	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	0.05	0.02
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.03	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.04	0.00
Insoluble Phosphate, Other		030.99	2	0.21	0.11
Method Group 030.XX PCT			17	0.05	0.03
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	52.28	0.00

Indirect Available Phosphate, Spectrometric	960.02	040.20	11	52.47	0.12
Indirect Available Phosphate, ICP		040.50	1	52.85	0.00
Indirect Available Phosphate, Other		040.99	5	51.51	0.33
Method Group 040.XX PCT			18	52.40	0.53

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	8	52.75	0.31
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	51.14	0.57
Direct Available Phosphate, Automated	978.01	041.40	3	52.46	0.25
Direct Available Phosphate, ICP		041.50	5	51.77	0.35
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	52.51	0.21
Method Group 041.XX PCT			22	52.45	0.60

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	47.35	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	15	45.64	0.69
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	45.54	0.00
Water Soluble Phosphate, Other		048.99	2	47.29	0.73
Method Group 048.XX PCT			19	45.87	0.76

SOLUBLE POTASH AS K₂O

Soluble Potash, STPB Oxalate	958.02	050.00	1	0.37	0.00
Soluble Potash, ICP(Oxalate)		050.50	2	0.37	0.01
Soluble Potash, ICP(Citrate)		050.51	1	0.13	0.00
Soluble Potash, Other		050.99	9	0.34	0.06
Method Group 050.XX PCT			13	0.35	0.09

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	18	3.02	0.32
Free Water, Vacuum Desiccate	965.08A	060.10	1	3.18	0.00
Free Water, Other		060.99	1	4.85	0.00
Method Group 060.XX PCT			20	3.03	0.35

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, ICP		101.30	19	0.47	0.03
Acid Soluble Calcium, Other		101.99	1	0.47	0.00
Method Group 101.XX PCT			20	0.47	0.03

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, ICP		121.30	20	2.34	0.15
Acid Soluble Magnesium, Other		121.99	1	1.99	0.00
Method Group 121.XX PCT			21	2.34	0.19
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	4	1.10	0.03
Sulfur, Spectrometric		144.70	2	1.00	0.00
Sulfur, Other		144.99	13	1.03	0.17
Method Group 144.XX PCT			19	1.03	0.10
TOTAL SULFUR (S)					
Sulfur, Other		145.99	3	0.89	0.19
Method Group 145.XX PCT			3	0.89	0.24
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	2	4	0.3
Total Arsenic, Other		151.99	1	3	0.0
Method Group 151.XX PPM			3	3	0.7
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	3	129	63.4
Method Group 165.XX PPM			3	129	77.3
TOTAL CADMIUM					
Total Cadmium, Atomic Absorbtion		181.00	1	57	0.0
Total Cadmium, ICP		181.30	10	54	6.4
Total Cadmium, Other		181.99	1	63	0.0
Method Group 181.XX PPM			12	55	9.0
ALUMINUM AS Al₂O₃					
ICP, %			16	1.26	0.07
Water Soluble Chlorine, Other, %		190.99	2	1.18	0.04
Method Group 190.XX PCT			18	1.25	0.08
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	11	469	29.9
Total Chromium, Other		191.99	1	449	0.0
Method Group 191.XX PPM			12	469	30.0
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	11	3	0.9

Acid Soluble Cobalt, Other		202.99	1	2	0.0
Method Group 202.XX PPM			12	3	1.1

ACID SOLUBLE COPPER

Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	2	0.0
Acid Soluble Copper, ICP		221.30	6	2	0.9
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			7	2	1.3

ACID SOLUBLE IRON AS Fe₂O₃

Acid Soluble Iron, ICP		241.30	19	2.38	0.12
Acid Soluble Iron, Other		241.99	2	2.54	0.24
Method Group 241.XX PCT			22	2.38	0.15

TOTAL LEAD

Total Lead, ICP		251.30	2	1	0.9
Total Lead, Other		251.99	1	1	0.0
Method Group 251.XX PPM			3	1	1.2

ACID SOLUBLE MANGANESE

Acid Soluble Manganese, ICP	972.02a	261.30	8	113	2.5
Acid Soluble Manganese, Other		261.99	5	106	6.7
Method Group 261.XX PPM			13	113	8.6

TOTAL MOLYBDENUM

Total Molybdenum, ICP		289.30	10	19	1.4
Total Molybdenum, Other		289.99	1	21	0.0
Method Group 289.XX PPM			11	19	2.0

TOTAL NICKEL

Total Nickel, ICP		291.30	10	60	1.8
Total Nickel, Other		291.99	1	59	0.0
Method Group 291.XX PPM			11	60	2.1

TOTAL SELENIUM

Total Selenium, ICP		301.30	1		0.0
Method Group 301.XX PPM			1	0	0.0

SODIUM AS Na₂O

Sodium, Atomic Absorbtion	983.04	311.00	3	0.38	0.03
Sodium, Other		311.99	9	0.40	0.02

Method Group 311.XX PCT		12	0.39	0.02
ACID SOLUBLE ZINC				
Acid Soluble Zinc, ICP	321.30	11	970.0	41.0
Acid Soluble Zinc, Other	321.99	2	895.5	0.7
Method Group 321.XX PPM		13	957.5	81.8
FLUORIDE				
Water Soluble Zinc, Atomic Absorption	325.00	1	0.75	0.00
Volumetric	325.10	13	0.78	0.03
Electrode	AFPC 325.30	1	0.79	0.00
Distilled/Electrode	325.99	2	0.74	0.01
Method Group 325.XX PCT		17	0.78	0.05