

AFPC

Sample

2007-09

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	4	18.13	0.35
Ammoniacal Nitrogen, Other		001.99	5	18.24	0.12
Method Group 001.XX PCT			9	18.23	0.19
TOTAL NITROGEN					
Total Nitrogen, Reduced Iron		010.10	1	18.60	0.00
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	18.17	0.12
Total Nitrogen, Salicylic	955.04d	010.12	1	17.95	0.00
Total Nitrogen, Raney	970.03	010.16	1	18.22	0.00
Total Nitrogen, Combustion	993.13	010.60	30	18.30	0.15
Total Nitrogen, Other		010.99	5	18.35	0.08
Method Group 010.XX PCT			42	18.29	0.22
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	46.57	0.15
Total Phosphate, Spectrometric	978.02	020.20	17	46.44	0.26
Total Phosphate, Automated	970.03	020.40	4	46.39	0.02
Total Phosphate, Other	993.13	020.99	2	46.86	0.16
Method Group 020.XX PCT			25	46.43	0.29
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.02	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	8	0.03	0.01
Insoluble Phosphate, Automated	978.01	030.40	4	0.04	0.02
Method Group 030.XX PCT			13	0.03	0.01
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	46.35	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	46.48	0.16
Indirect Available Phosphate, Automated	960.02	040.40	4	46.37	0.02
Method Group 040.XX PCT			14	46.38	0.16

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	8	46.56	0.19
Direct Available Phosphate, Spectrometric	960.03D	041.20	3	45.97	0.26
Direct Available Phosphate, Automated	978.01	041.40	4	46.47	0.34
Direct Available Phosphate, ICP		041.50	5	44.82	0.74
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	46.41	0.12
Method Group 041.XX PCT			23	46.47	0.56

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	44.18	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	9	44.38	0.14
Water Soluble Phosphate, Other		048.99	5	44.30	0.47
Method Group 048.XX PCT			15	44.30	0.27

SOLUBLE POTASH AS K₂O

Soluble Potash, STPB Oxalate	958.02	050.00	1	0.16	0.00
Soluble Potash, Atomic Absorption(Oxalate)		050.30	1	1.08	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.11	0.00
Soluble Potash, Other		050.99	10	0.14	0.01
Method Group 050.XX PCT			13	0.15	0.02

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	12	1.41	0.13
Free Water, Vacuum Desiccate	965.08A	060.10	2	1.29	0.01
Method Group 060.XX PCT			14	1.40	0.16

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.08	0.00
Acid Soluble Calcium, ICP		101.30	18	0.47	0.03
Method Group 101.XX PCT			19	0.46	0.05

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.04	0.00
Acid Soluble Magnesium, ICP		121.30	18	1.42	0.08
Method Group 121.XX PCT			19	1.42	0.10

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	4	2.21	0.11
Sulfur, Other		144.99	16	2.11	0.28

Method Group 144.XX PCT			20	2.18	0.28
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	4	1	4.7
Total Arsenic, Other		151.99	3	1	0.2
Method Group 151.XX PPM			7	1	0.7
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	4	164	112.4
Method Group 165.XX PPM			4	164	136.9
TOTAL CADMIUM					
Total Cadmium, Atomic Absorbtion		181.00	2	37	1.0
Total Cadmium, ICP		181.30	12	37	2.7
Total Cadmium, Other		181.99	1	40	0.0
Method Group 181.XX PPM			15	37	3.1
ALUMINUM AS Al₂O₃					
ICP, %			17	0.41	0.03
Water Soluble Chlorine, Other, %		190.99	2	0.45	0.03
Method Group 190.XX PCT			19	0.42	0.04
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	12	218	14.1
Total Chromium, Other		191.99	2	217	3.9
Method Group 191.XX PPM			14	218	15.0
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	10	1	0.7
Acid Soluble Cobalt, Other		202.99	1	1	0.0
Method Group 202.XX PPM			11	1	0.9
ACID SOLUBLE COPPER					
Acid Soluble Copper, ICP		221.30	11	2	1.5
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			12	2	1.8
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, Atomic Absorption	980.01	241.00	2	0.61	0.04
Acid Soluble Iron, ICP		241.30	18	0.67	0.04
Method Group 241.XX PCT			20	0.66	0.05

TOTAL LEAD

Total Lead, Atomic Absorbtion		251.00	1	17	0.0
Total Lead, ICP		251.30	6	2	2.2
Total Lead, Other		251.99	1	0	0.0
Method Group 251.XX PPM			8	2	6.2

ACID SOLUBLE MANGANESE

Acid Soluble Manganese, ICP	972.02a	261.30	7	51	74.9
Acid Soluble Manganese, Other		261.99	5	45	0.4
Method Group 261.XX PPM			12	50	21.0

WATER SOLUBLE MANGANESE

Method Group 271.XX PCT			1	0.04	0
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TOTAL MERCURY

Total Mercury, Other		281.99	1	0.00	0.00
Method Group 281.XX PPM			1	3.57	0.00

TOTAL MOLYBDENUM

Total Molybdenum, ICP		289.30	10	3	3.7
Total Molybdenum, Other		289.99	1	3	0.0
Method Group 289.XX PPM			11	3	4.5

TOTAL NICKEL

Total Nickel, Atomic Absorbtion		291.00	1	14	0.0
Total Nickel, ICP		291.30	11	16	1.4
Total Nickel, Other		291.99	1	18	0.0
Method Group 291.XX PPM			13	16	1.7

TOTAL SELENIUM

Total Selenium, Other		301.99	1	3	0.0
Method Group 301.XX PPM			1	3	0.0

SODIUM AS Na₂O

Sodium, Atomic Absorbtion	983.04	311.00	2	0.23	0.01
Sodium, Other		311.99	10	0.23	0.04
Method Group 311.XX PCT			12	0.23	0.05

ACID SOLUBLE ZINC

Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	419	0.0
Acid Soluble Zinc, ICP		321.30	11	438	39.6

Acid Soluble Zinc, Other	321.99	2	420	0.6
Method Group 321.XX PPM		14	434	38.1
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FLUORIDE				
Volumetric	325.10	12	1.45	0.06
Distilled/Electrode	325.99	2	1.51	0.00
Method Group 325.XX PCT		14	1.46	0.07
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