

AFPC

Sample

2008-02

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	5	11.04	0.20
Ammoniacal Nitrogen, Other		001.99	10	11.15	0.08
Method Group 001.XX PCT			15	11.14	0.17
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	11.20	0.02
Total Nitrogen, Salicylic	955.04d	010.12	1	11.00	0.00
Total Nitrogen, Comprehensive	970.02	010.17	1	11.25	0.00
Total Nitrogen, Combustion	993.13	010.60	29	11.13	0.13
Total Nitrogen, Other		010.99	2	11.24	0.03
Method Group 010.XX PCT			37	11.17	0.14
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	53.16	0.05
Total Phosphate, Spectrometric	978.02	020.20	19	52.58	0.24
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	53.36	0.00
Total Phosphate, Automated	970.03	020.40	5	52.93	0.11
Total Phosphate, Other	993.13	020.99	2	52.55	0.11
Method Group 020.XX PCT			29	52.70	0.35
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.14	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	0.21	0.04
Insoluble Phosphate, Automated	978.01	030.40	3	0.09	0.01
Insoluble Phosphate, ICP		030.50	2	0.09	0.00
Insoluble Phosphate, Other		030.99	2	0.30	0.04
Method Group 030.XX PCT			19	0.19	0.12
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	52.47	0.17
Indirect Available Phosphate, Automated	960.02	040.40	4	52.78	0.09

Indirect Available Phosphate, Other		040.99	4	52.44	0.66
Method Group 040.XX PCT			17	52.61	0.40

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	7	52.97	0.26
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	51.07	0.22
Direct Available Phosphate, Automated	978.01	041.40	3	52.62	0.20
Direct Available Phosphate, ICP		041.50	5	52.50	1.74
Direct Available Phosphate, EDTA Extract	993.01	041.60	2	53.12	0.11
Method Group 041.XX PCT			19	52.74	0.65

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	48.10	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	13	48.07	0.45
Water Soluble Phosphate, Other		048.99	5	48.04	0.28
Method Group 048.XX PCT			19	48.07	0.19

SOLUBLE POTASH AS K₂O

Soluble Potash, ICP(Citrate)		050.51	1	0.11	0.00
Soluble Potash, Other		050.99	9	0.12	0.01
Method Group 050.XX PCT			10	0.12	0.01

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	15	0.69	0.21
Free Water, Vacuum Desiccate	965.08A	060.10	2	0.49	0.02
Free Water, Other		060.99	2	0.83	0.05
Method Group 060.XX PCT			19	0.69	0.27

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.05	0.00
Acid Soluble Calcium, ICP		101.30	17	0.93	0.02
Method Group 101.XX PCT			18	0.92	0.04

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.03	0.00
Acid Soluble Magnesium, ICP		121.30	17	1.51	0.06
Acid Soluble Magnesium, Other		121.99	1	1.53	0.00
Method Group 121.XX PCT			19	1.51	0.07

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	4	1.80	0.03
Sulfur, Gravimetric	980.02(b)	144.02	1	1.84	0.00
Sulfur, Other		144.99	15	1.67	0.05
Method Group 144.XX PCT			20	1.68	0.13

TOTAL ARSENIC

Total Arsenic, ICP	980.02(b)	151.02	4	16	4.6
Total Arsenic, Other		151.99	3	16	2.2
Method Group 151.XX PPM			7	16	4.8

ACID SOLUBLE BORON

Acid Soluble Boron, Other		165.99	2	32	1.2
Method Group 165.XX PPM			2	32	1.5

TOTAL CADMIUM

Total Cadmium, Atomic Absorbtion		181.00	3	145	4.3
Total Cadmium, ICP		181.30	9	145	6.2
Total Cadmium, Other		181.99	1	157	0.0
Method Group 181.XX PPM			13	145	8.8

ALUMINUM AS Al₂O₃

ICP, %			15	1.33	0.08
Water Soluble Chlorine, Other, %		190.99	3	1.36	0.13
Method Group 190.XX PCT			18	1.33	0.10

TOTAL CHROMIUM

Total Chromium, Atomic Absorbtion		191.00	1	518	0.0
Total Chromium, ICP		191.30	8	456	4.1
Total Chromium, Other		191.99	1	450	0.0
Method Group 191.XX PPM			10	456	7.7

ACID SOLUBLE COBALT

Acid Soluble Cobalt, Atomic Absorption		202.00	1	3.55	0.0
Acid Soluble Cobalt, ICP		202.30	8	5	0.3
Acid Soluble Cobalt, Other		202.99	1	5	0.0
Method Group 202.XX PPM			10	5	0.4

ACID SOLUBLE COPPER

Acid Soluble Copper, ICP		221.30	8	89	2.5
Acid Soluble Copper, Other		221.99	1	0	0.0

Method Group 221.XX PPM			9	89	2.7
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, Atomic Absorption	980.01	241.00	3	0.89	0.10
Acid Soluble Iron, ICP		241.30	17	0.96	0.05
Method Group 241.XX PCT			20	0.96	0.06
TOTAL LEAD					
Total Lead, Atomic Absorption		251.00	1	15	0.0
Total Lead, ICP		251.30	5	4	0.7
Total Lead, Other		251.99	4	2	1.0
Method Group 251.XX PPM			10	3	0.9
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, Atomic Absorption	972.02a	261.00	1	175	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	6	167	2.6
Acid Soluble Manganese, Other		261.99	3	165	2.2
Method Group 261.XX PPM			10	166	3.6
WATER SOLUBLE MANGANESE					
Method Group 271.XX PCT			1	0.04	0
TOTAL MERCURY					
Total Mercury, Other		281.99	1	0.00	0.00
Method Group 281.XX PPM			1	0.42	0.00
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	8	11	1.1
Total Molybdenum, Other		289.99	1	13	0.0
Method Group 289.XX PPM			9	11	0.9
TOTAL NICKEL					
Total Nickel, Atomic Absorption		291.00	2	248	8.9
Total Nickel, ICP		291.30	7	256	6.6
Total Nickel, Other		291.99	1	262	0.0
Method Group 291.XX PPM			10	256	10.1
TOTAL SELENIUM					
Total Selenium, ICP		301.30	2	<1	0.1
Total Selenium, Other		301.99	1	2	0.0
Method Group 301.XX PPM			3	0	1.0

SODIUM AS Na₂O

Sodium, Atomic Absorbtion	983.04	311.00	2	0.18	0.00
Sodium, Other		311.99	7	0.19	0.02
Method Group 311.XX PCT			9	0.18	0.02

ACID SOLUBLE ZINC

Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	1660	0.0
Acid Soluble Zinc, ICP		321.30	8	1660	48.3
Acid Soluble Zinc, Other		321.99	3	1635	61.8
Method Group 321.XX PPM			12	1652	53.4

FLUORIDE

Volumetric		325.10	13	1.50	0.05
Distilled/Electrode		325.99	3	1.49	0.03
Method Group 325.XX PCT			16	1.49	0.07
