

AFPC

Sample

2009-06

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	3	17.41	0.49
Ammoniacal Nitrogen, Other		001.99	7	17.31	0.18
Method Group 001.XX PCT			9	18.24	0.10
NITRATE NITROGEN					
Nitrate Nitrogen, Other		002.99	1	0.12	0.00
Method Group 002.XX PCT			0		
TOTAL NITROGEN					
Total Nitrogen, Reduced Iron		010.10	2	17.68	0.10
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	17.79	0.04
Total Nitrogen, Combustion	993.13	010.60	28	17.80	0.12
Total Nitrogen, Other		010.99	2	17.52	0.03
Method Group 010.XX PCT			39	18.31	0.25
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	6	45.77	0.18
Total Phosphate, Spectrometric	978.02	020.20	16	45.55	0.27
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	45.84	0.00
Total Phosphate, Automated	970.03	020.40	5	45.43	0.14
Total Phosphate, Other	993.13	020.99	1	45.72	0.00
Method Group 020.XX PCT			27	46.35	0.27
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	2	0.33	0.15
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	8	0.35	0.16
Insoluble Phosphate, Automated	978.01	030.40	1	0.41	0.00
Insoluble Phosphate, ICP		030.50	3	0.42	0.18
Method Group 030.XX PCT			17	0.03	0.03
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	2	45.45	0.25

Indirect Available Phosphate, Spectrometric	960.02	040.20	9	45.04	0.26
Indirect Available Phosphate, Automated	960.02	040.40	4	44.98	0.09
Indirect Available Phosphate, Other		040.99	1	45.28	0.00
Method Group 040.XX PCT			15	46.30	0.13

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	7	44.89	0.28
Direct Available Phosphate, Automated	978.01	041.40	4	45.11	0.68
Direct Available Phosphate, ICP		041.50	4	44.72	0.48
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	45.08	0.16
Method Group 041.XX PCT			15	46.17	0.26

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	2	40.89	0.11
Water Soluble Phosphate, Spectrometric	970.01	048.20	11	40.34	0.22
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	42.21	0.00
Water Soluble Phosphate, Other		048.99	4	40.09	0.13
Method Group 048.XX PCT			17	43.88	0.21

SOLUBLE POTASH AS K₂O

Soluble Potash, ICP(Citrate)		050.51	1	0.10	0.00
Soluble Potash, Other		050.99	8	0.13	0.01
Method Group 050.XX PCT			8	0.16	0.00

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	14	2.47	0.20
Free Water, Vacuum Desiccate	965.08A	060.10	4	2.28	0.10
Method Group 060.XX PCT			18	1.64	0.16

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, ICP		101.30	16	0.36	0.02
Method Group 101.XX PCT			18	0.48	0.04

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, ICP		121.30	17	1.21	0.06
Method Group 121.XX PCT			18	1.49	0.07

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	3	1.50	1.01
Sulfur, Gravimetric	980.02(b)	144.02	3	1.51	1.06

Sulfur, Spectrometric		144.70	1	1.36	0.00
Sulfur, Other		144.99	11	1.36	0.06
Method Group 144.XX PCT			17	2.18	0.11
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	5	11	2.5
Total Arsenic, Other		151.99	1	10	0.0
Method Group 151.XX PPM			7	3	3.2
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	4	126	78.8
Method Group 165.XX PPM			3	75	108.2
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	8	3	0.3
Total Cadmium, Other		181.99	1	3	0.0
Method Group 181.XX PPM			12	37	1.5
ALUMINUM AS Al₂O₃					
ICP, %			15	1.50	0.05
Method Group 190.XX PCT			16	0.42	0.03
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	7	106	8.5
Total Chromium, Other		191.99	2	104	3.0
Method Group 191.XX PPM			10	218	8.6
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	7	4	0.4
Acid Soluble Cobalt, Other		202.99	1	3	0.0
Method Group 202.XX PPM			9	1	0.8
ACID SOLUBLE COPPER					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	1	0.0
Acid Soluble Copper, ICP		221.30	4	2	0.1
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			6	2	0.7
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	17	1.82	0.06
Method Group 241.XX PCT			18	0.66	0.03

TOTAL LEAD

Total Lead, ICP	251.30	4	3	2.0
Total Lead, Other	251.99	1	4	0.0
Method Group 251.XX PPM		2	1	0.1

ACID SOLUBLE MANGANESE

Acid Soluble Manganese, ICP	972.02a 261.30	7	253	7.8
Acid Soluble Manganese, Other	261.99	2	249	14.7
Method Group 261.XX PPM		10	47	2.9

WATER SOLUBLE MANGANESE

Method Group 271.XX PCT		1	0.04	0
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TOTAL MERCURY

Total Mercury, ICP	281.30	1	0.05	0.00
Method Group 281.XX PPM		0	#NUM!	

TOTAL MOLYBDENUM

Total Molybdenum, ICP	289.30	7	6	1.0
Total Molybdenum, Other	289.99	1	6	0.0
Method Group 289.XX PPM		8	3	0.7

TOTAL NICKEL

Total Nickel, ICP	291.30	7	13	1.4
Total Nickel, Other	291.99	1	14	0.0
Method Group 291.XX PPM		9	16	0.9

TOTAL SELENIUM

Total Selenium, ICP	301.30	1	<1	0.0
Method Group 301.XX PPM		1	15	0.0

SODIUM AS Na₂O

Sodium, Atomic Absorbtion	983.04 311.00	2	0.22	0.01
Sodium, Other	311.99	7	0.22	0.02
Method Group 311.XX PCT		11	0.24	0.01

ACID SOLUBLE ZINC

Acid Soluble Zinc, ICP	321.30	7	46	3.8
Method Group 321.XX PPM		9	422	14.0

FLUORIDE

Volumetric	325.10	11	2.30	0.42
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Distilled/Electrode	325.99	3	2.30	0.06
Method Group 325.XX PCT		14	1.40	0.08
