

# AFPC

**Sample**

**2006-07**

**Grade**

**18-46-0**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
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			10	17.31	0.30
<b>NITRATE NITROGEN</b>					
Nitrate Nitrogen, Other		002.99	1	0.12	0.00
Method Group 002.XX PCT			1	0.12	0.00
<b>TOTAL NITROGEN</b>					
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			37	17.79	0.16
<b>TOTAL PHOSPHATE</b>					
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			29	45.64	0.39
<b>INSOLUBLE PHOSPHATE</b>					
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			14	0.40	0.19
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
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			16	45.05	0.22
<b>DIRECT AVAILABLE PHOSPHATE</b>					
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			18	44.88	0.43
<b>WATER SOLUBLE PHOSPHATE</b>					
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			18	40.33	0.44
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
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			9	0.13	0.01
<b>FREE WATER</b>					
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	2.42	0.29
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, ICP		101.30	16	0.36	0.02
Method Group 101.XX PCT			16	0.36	0.02
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, ICP		121.30	17	1.21	0.06
Method Group 121.XX PCT			17	1.21	0.07
<b>SULFATE SULFUR (S)</b>					
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			18	1.39	0.14
<b>TOTAL ARSENIC</b>					
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			6	10	2.5
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	4	126	78.8
Method Group 165.XX PPM			4	126	96.0
<b>TOTAL CADMIUM</b>					
Total Cadmium, ICP		181.30	8	3	0.3
Total Cadmium, Other		181.99	1	3	0.0
Method Group 181.XX PPM			9	3	0.2
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			15	1.50	0.05
Method Group 190.XX PCT			15	1.50	0.06
<b>TOTAL CHROMIUM</b>					
Total Chromium, ICP		191.30	7	106	8.5
Total Chromium, Other		191.99	2	104	3.0
Method Group 191.XX PPM			9	106	9.8
<b>ACID SOLUBLE COBALT</b>					
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			8	4	0.6
<b>ACID SOLUBLE COPPER</b>					
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	0.4
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					
Acid Soluble Iron, ICP		241.30	17	1.82	0.06
Method Group 241.XX PCT			17	1.82	0.07

**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		5	4	2.3

**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		9	253	15.0

**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		1	0.05	0.00

**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	6	1.2

**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		8	14	1.3

**TOTAL SELENIUM**

Total Selenium, ICP	301.30	1	<1	0.0
Method Group 301.XX PPM		1	10	0.0

**SODIUM AS Na<sub>2</sub>O**

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		9	0.22	0.02

**ACID SOLUBLE ZINC**

Acid Soluble Zinc, ICP	321.30	7	46	3.8
Method Group 321.XX PPM		7	46	4.6

**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	2.30	0.32

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