

# AFPC

**Sample**

**2008-05**

**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	2	18.06	0.10
Ammoniacal Nitrogen, Other		001.99	9	18.24	0.13
Method Group 001.XX PCT			11	18.20	0.17
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	18.34	0.06
Total Nitrogen, Salicylic	955.04d	010.12	2	18.04	0.07
Total Nitrogen, Combustion	993.13	010.60	25	18.32	0.12
Total Nitrogen, Other		010.99	7	18.26	0.11
Method Group 010.XX PCT			39	18.31	0.18
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	2	47.35	0.09
Total Phosphate, Spectrometric	978.02	020.20	22	47.24	0.29
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	47.83	0.00
Total Phosphate, Automated	970.03	020.40	2	43.90	2.61
Total Phosphate, Other	993.13	020.99	2	47.56	0.12
Method Group 020.XX PCT			29	47.29	0.36
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.04	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	12	0.08	0.03
Insoluble Phosphate, Automated	978.01	030.40	2	0.04	0.02
Insoluble Phosphate, Other		030.99	3	0.12	0.04
Method Group 030.XX PCT			18	0.08	0.05
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	47.19	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	14	47.27	0.27
Indirect Available Phosphate, Automated	960.02	040.40	1	47.38	0.00
Indirect Available Phosphate, Other		040.99	4	47.30	0.29

Method Group 040.XX PCT			20	47.28	0.29
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	5	47.42	0.04
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	46.53	0.00
Direct Available Phosphate, Automated	978.01	041.40	3	47.00	0.15
Direct Available Phosphate, ICP		041.50	4	46.86	0.31
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	47.37	0.12
Method Group 041.XX PCT			17	47.18	0.37
<b>WATER SOLUBLE PHOSPHATE</b>					
Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	43.67	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	14	43.54	0.45
Water Soluble Phosphate, Other		048.99	4	43.90	0.51
Method Group 048.XX PCT			19	43.65	0.51
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, ICP(Citrate)		050.51	1	0.14	0.00
Soluble Potash, Other		050.99	6	0.13	0.00
Method Group 050.XX PCT			7	0.14	0.00
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	15	1.40	0.20
Free Water, Vacuum Desiccate	965.08A	060.10	2	1.57	0.02
Free Water, Other		060.99	3	1.91	0.08
Method Group 060.XX PCT			20	1.46	0.30
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, ICP		101.30	13	0.44	0.03
Method Group 101.XX PCT			13	0.44	0.04
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, ICP		121.30	13	0.76	0.03
Acid Soluble Magnesium, Other		121.99	1	0.77	0.00
Method Group 121.XX PCT			14	0.76	0.04
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	5	1.26	0.06
Sulfur, Spectrometric		144.70	2	1.22	0.01
Sulfur, Other		144.99	9	1.20	1.72

Method Group 144.XX PCT			16	1.22	0.17
<b>TOTAL SULFUR (S)</b>					
Sulfur, Other		145.99	3	1.10	0.01
Method Group 145.XX PCT			3	1.10	0.02
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	3	11	1.0
Total Arsenic, Other		151.99	2	12	0.1
Method Group 151.XX PPM			5	11	0.8
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	2	47	2.1
Method Group 165.XX PPM			2	47	2.6
<b>TOTAL CADMIUM</b>					
Total Cadmium, Atomic Absorbtion		181.00	2	5	0.3
Total Cadmium, ICP		181.30	8	5	0.5
Total Cadmium, Other		181.99	1	5	0.0
Method Group 181.XX PPM			11	5	0.5
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			12	1.42	0.08
Water Soluble Chlorine, Other, %		190.99	2	1.46	0.01
Method Group 190.XX PCT			14	1.43	0.08
<b>TOTAL CHROMIUM</b>					
Total Chromium, Atomic Absorbtion		191.00	1	77	0.0
Total Chromium, ICP		191.30	9	73	4.1
Total Chromium, Other		191.99	1	73	0.0
Method Group 191.XX PPM			11	73	5.1
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP		202.30	7	4	1.0
Acid Soluble Cobalt, Other		202.99	1	4	0.0
Method Group 202.XX PPM			8	4	1.1
<b>ACID SOLUBLE COPPER</b>					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	2	0.0
Acid Soluble Copper, ICP		221.30	6	2	1.1
Method Group 221.XX PPM			6	2	1.4

**ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub>**

Acid Soluble Iron, ICP		241.30	12	1.59	0.06
Acid Soluble Iron, Other		241.99	2	1.59	0.04
Method Group 241.XX PCT			15	1.59	0.07

**TOTAL LEAD**

Total Lead, Atomic Absorbtion		251.00	1	2	0.0
Total Lead, ICP		251.30	5	1	1.1
Total Lead, Other		251.99	1	2	0.0
Method Group 251.XX PPM			7	2	1.1

**ACID SOLUBLE MANGANESE**

Acid Soluble Manganese, ICP	972.02a	261.30	3	366	6.5
Acid Soluble Manganese, Other		261.99	5	352	2.2
Method Group 261.XX PPM			8	353	10.0

**TOTAL MERCURY**

Total Mercury, ICP		281.30	1	2	0.00
Method Group 281.XX PPM			1	2.00	0.00

**TOTAL MOLYBDENUM**

Total Molybdenum, ICP		289.30	7	13	1.3
Total Molybdenum, Other		289.99	1	12	0.0
Method Group 289.XX PPM			8	13	1.5

**TOTAL NICKEL**

Total Nickel, ICP		291.30	9	19	0.7
Total Nickel, Other		291.99	1	2	0.0
Method Group 291.XX PPM			10	19	1.6

**TOTAL SELENIUM**

Total Selenium, Other		301.99	2	1	0.3
Method Group 301.XX PPM			2	1	0.4

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

Sodium, Atomic Absorbtion	983.04	311.00	2	0.15	0.00
Sodium, Other		311.99	6	0.17	0.03
Method Group 311.XX PCT			8	0.15	0.03

**ACID SOLUBLE ZINC**

Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	70.50	0.0
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Acid Soluble Zinc, ICP	321.30	7	75.90	8.8
Acid Soluble Zinc, Other	321.99	2	72.00	0.0
Method Group 321.XX PPM		10	74.80	9.5
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<b>FLUORIDE</b>				
Water Soluble Zinc, Atomic Absorption	325.00	1	2.37	0.00
Volumetric	325.10	12	2.34	0.08
Distilled/Electrode	325.99	2	2.49	0.00
Method Group 325.XX PCT		15	2.37	0.15
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