

# AFPC

**Sample**

**2007-06**

**Grade**

**11-52-0**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	4	11.38	0.21
Ammoniacal Nitrogen, Other		001.99	9	11.47	0.05
Method Group 001.XX PCT			13	11.47	0.12
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	11.60	0.07
Total Nitrogen, Salicylic	955.04d	010.12	2	11.43	0.02
Total Nitrogen, Combustion	993.13	010.60	28	11.50	0.24
Total Nitrogen, Other		010.99	3	11.48	0.02
Method Group 010.XX PCT			37	11.50	0.15
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	6	54.03	0.15
Total Phosphate, Spectrometric	978.02	020.20	19	53.54	0.56
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	52.37	0.00
Total Phosphate, Automated	970.03	020.40	2	53.95	0.00
Total Phosphate, Other	993.13	020.99	3	54.15	0.09
Method Group 020.XX PCT			31	53.87	0.53
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	2	0.93	0.55
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	12	0.60	0.31
Insoluble Phosphate, Automated	978.01	030.40	3	0.57	0.10
Method Group 030.XX PCT			17	0.59	0.38
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	2	52.84	0.45
Indirect Available Phosphate, Spectrometric	960.02	040.20	10	52.88	0.53
Indirect Available Phosphate, Automated	960.02	040.40	2	53.41	0.03
Indirect Available Phosphate, Other		040.99	3	53.39	0.20
Method Group 040.XX PCT			17	52.95	0.79

**DIRECT AVAILABLE PHOSPHATE**

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	9	53.34	0.37
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	52.17	1.04
Direct Available Phosphate, Automated	978.01	041.40	4	53.19	0.69
Direct Available Phosphate, ICP		041.50	3	52.39	0.96
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	52.54	0.41
Method Group 041.XX PCT			22	52.93	0.93

**WATER SOLUBLE PHOSPHATE**

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	2	49.12	0.24
Water Soluble Phosphate, Spectrometric	970.01	048.20	10	48.90	0.34
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	49.09	0.00
Water Soluble Phosphate, Other		048.99	6	49.86	0.74
Method Group 048.XX PCT			19	49.09	0.50

**SOLUBLE POTASH AS K<sub>2</sub>O**

Soluble Potash, ICP(Citrate)		050.51	1	0.14	0.00
Soluble Potash, Other		050.99	9	0.15	0.02
Method Group 050.XX PCT			10	0.15	0.02

**FREE WATER**

Free Water, Vacuum Oven	965.08B	060.00	18	0.47	0.12
Free Water, Vacuum Desiccate	965.08A	060.10	2	0.36	0.01
Free Water, Other		060.99	1	0.87	0.00
Method Group 060.XX PCT			21	0.47	0.17

**ACID SOLUBLE CALCIUM AS CaO**

Acid Soluble Calcium, ICP		101.30	18	0.32	0.02
Method Group 101.XX PCT			18	0.32	0.03

**ACID SOLUBLE MAGNESIUM AS MgO**

Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.70	0.00
Acid Soluble Magnesium, ICP		121.30	18	0.71	0.05
Method Group 121.XX PCT			19	0.71	0.05

**SULFATE SULFUR (S)**

Sulfur, Gravimetric	980.02(a)	144.01	4	1.85	0.05
Sulfur, Gravimetric	980.02(b)	144.02	1	1.90	0.00
Sulfur, Other		144.99	16	1.72	0.13

Method Group 144.XX PCT			21	1.78	0.12
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	6	7	2.0
Total Arsenic, Other		151.99	4	7	1.3
Method Group 151.XX PPM			10	7	1.5
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	5	110	213.8
Method Group 165.XX PPM			5	110	260.5
<b>TOTAL CADMIUM</b>					
Total Cadmium, Atomic Absorbtion		181.00	2	5	0.4
Total Cadmium, ICP		181.30	11	5	0.5
Total Cadmium, Other		181.99	1	5	0.0
Method Group 181.XX PPM			14	5	0.5
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			16	1.55	0.05
Water Soluble Chlorine, Other, %		190.99	3	1.52	0.10
Method Group 190.XX PCT			19	1.55	0.07
<b>TOTAL CHROMIUM</b>					
Total Chromium, Atomic Absorbtion		191.00	2	98	0.4
Total Chromium, ICP		191.30	11	87	4.7
Total Chromium, Other		191.99	1	89	0.0
Method Group 191.XX PPM			14	88	6.6
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP		202.30	10	4	0.7
Acid Soluble Cobalt, Other		202.99	1	3	0.0
Method Group 202.XX PPM			11	4	0.9
<b>ACID SOLUBLE COPPER</b>					
Acid Soluble Copper, ICP		221.30	4	1	0.2
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			5	1	0.9
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					
Acid Soluble Iron, Atomic Absorption	980.01	241.00	2	1.32	0.01
Acid Soluble Iron, ICP		241.30	17	1.35	0.06

Acid Soluble Iron, Other		241.99	1	1.36	0.00
Method Group 241.XX PCT			20	1.34	0.07
<b>TOTAL LEAD</b>					
Total Lead, Atomic Absorbtion		251.00	1	2	0.0
Total Lead, ICP		251.30	8	2	1.1
Total Lead, Other		251.99	1	2	0.0
Method Group 251.XX PPM			10	2	1.2
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, Atomic Absorption	972.02a	261.00	1	355	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	7	351	13.6
Acid Soluble Manganese, Other		261.99	3	347	13.1
Method Group 261.XX PPM			11	351	14.8
<b>WATER SOLUBLE MANGANESE</b>					
Method Group 271.XX PCT			1	0.04	0
<b>TOTAL MERCURY</b>					
Total Mercury, Other		281.99	1	0	0.00
Method Group 281.XX PPM			1	0	0.00
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP		289.30	9	13	1.2
Total Molybdenum, Other		289.99	1	15	0.0
Method Group 289.XX PPM			10	13	1.4
<b>TOTAL NICKEL</b>					
Total Nickel, Atomic Absorbtion		291.00	1	13	0.0
Total Nickel, ICP		291.30	10	17	1.0
Total Nickel, Other		291.99	1	19	0.0
Method Group 291.XX PPM			12	17	1.8
<b>TOTAL SELENIUM</b>					
Total Selenium, ICP		301.30	3	<1	0.7
Method Group 301.XX PPM			3	1	0.8
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04	311.00	2	0.10	0.00
Sodium, Other		311.99	8	0.14	0.02
Method Group 311.XX PCT			10	0.13	0.03

**ACID SOLUBLE ZINC**

Acid Soluble Zinc, ICP	321.30	9	81	6.2
Acid Soluble Zinc, Other	321.99	2	75	0.6
Method Group 321.XX PPM		11	79	7.2

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**FLUORIDE**

Electrode	325.10	15	1.60	0.08
Electrode	AFPC 325.30	2	1.71	0.01
Distilled/Electrode	325.99	3	1.68	0.30
Method Group 325.XX PCT		20	1.62	0.12

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