

# AFPC

**Sample**

**2006-12**

**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	10.25	0.33
Ammoniacal Nitrogen, Other		001.99	9	10.19	0.04
Method Group 001.XX PCT			13	10.19	0.14
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	10.22	0.02
Total Nitrogen, Salicylic	955.04d	010.12	2	10.12	0.01
Total Nitrogen, Combustion	993.13	010.60	30	10.11	0.25
Total Nitrogen, Other		010.99	1	10.03	0.00
Method Group 010.XX PCT			38	10.14	0.28
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	4	50.81	8.06
Total Phosphate, Spectrometric	978.02	020.20	19	50.67	0.52
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	50.95	0.00
Total Phosphate, Automated	970.03	020.40	5	50.97	0.10
Total Phosphate, Other	993.13	020.99	1	50.35	0.00
Method Group 020.XX PCT			30	50.77	0.58
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.05	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	0.03	0.01
Insoluble Phosphate, Automated	978.01	030.40	3	0.02	0.03
Insoluble Phosphate, ICP		030.50	2	0.11	0.00
Method Group 030.XX PCT			17	0.03	0.02
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	51.12	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	50.58	0.24
Indirect Available Phosphate, Automated	960.02	040.40	4	50.85	0.08
Indirect Available Phosphate, Other		040.99	5	50.73	0.11

Method Group 040.XX PCT			19	50.73	0.32
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	8	50.78	0.32
Direct Available Phosphate, Automated	978.01	041.40	4	50.57	0.97
Direct Available Phosphate, ICP		041.50	5	50.24	0.70
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	50.81	0.10
Method Group 041.XX PCT			20	50.74	0.50
<b>WATER SOLUBLE PHOSPHATE</b>					
Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	46.64	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	13	46.92	0.46
Water Soluble Phosphate, Other		048.99	5	46.48	0.23
Method Group 048.XX PCT			19	46.70	0.36
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, STPB Oxalate	958.02	050.00	1	0.08	0.00
Soluble Potash, Atomic Absorption(Oxalate)		050.30	1	0.28	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.15	0.00
Soluble Potash, Other		050.99	9	0.20	0.01
Method Group 050.XX PCT			12	0.20	0.02
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	16	0.70	0.10
Free Water, Vacuum Desiccate	965.08A	060.10	4	0.58	0.05
Free Water, Other		060.99	1	1.31	0.00
Method Group 060.XX PCT			21	0.70	0.18
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, ICP		101.30	17	1.79	0.07
Method Group 101.XX PCT			17	1.79	0.08
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, ICP		121.30	17	1.33	0.07
Method Group 121.XX PCT			17	1.33	0.08
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	1	1.98	0.00
Sulfur, Gravimetric	980.02(b)	144.02	1	2.19	0.00
Sulfur, Other		144.99	16	1.89	3.01

Method Group 144.XX PCT			18	1.91	2.81
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	9	14	5.6
Total Arsenic, Other		151.99	3	13	0.7
Method Group 151.XX PPM			12	14	3.7
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	4	307	426.1
Method Group 165.XX PPM			4	307	519.1
<b>TOTAL CADMIUM</b>					
Total Cadmium, Atomic Absorbtion		181.00	1	4	0.0
Total Cadmium, ICP		181.30	13	4	0.3
Total Cadmium, Other		181.99	1	5	0.0
Method Group 181.XX PPM			15	4	0.4
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			15	2.25	0.15
Water Soluble Chlorine, Other, %		190.99	2	2.44	0.13
Method Group 190.XX PCT			17	2.25	0.17
<b>TOTAL CHROMIUM</b>					
Total Chromium, ICP		191.30	12	86	4.6
Total Chromium, Other		191.99	1	86	0.0
Method Group 191.XX PPM			13	86	5.5
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP		202.30	11	3	0.3
Acid Soluble Cobalt, Other		202.99	1	3	0.0
Method Group 202.XX PPM			12	3	0.4
<b>ACID SOLUBLE COPPER</b>					
Acid Soluble Copper, ICP		221.30	6	3	3.3
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			7	2	3.4
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					
Acid Soluble Iron, Atomic Absorption	980.01	241.00	1	1.54	0.00
Acid Soluble Iron, ICP		241.30	16	1.48	0.08
Acid Soluble Iron, Other		241.99	1	1.55	0.00

Method Group 241.XX PCT			18	1.49	0.09
<b>TOTAL LEAD</b>					
Total Lead, ICP	251.30		10	7	1.8
Total Lead, Other	251.99		1	7	0.0
Method Group 251.XX PPM			11	7	2.0
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, ICP	972.02a 261.30		10	334	18.8
Acid Soluble Manganese, Other	261.99		3	333	8.4
Method Group 261.XX PPM			13	333	17.7
<b>WATER SOLUBLE MANGANESE</b>					
Method Group 271.XX PCT			1	0.04	0
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP	289.30		11	15	1.7
Total Molybdenum, Other	289.99		1	18	0.0
Method Group 289.XX PPM			12	15	1.9
<b>TOTAL NICKEL</b>					
Total Nickel, ICP	291.30		11	13	1.0
Total Nickel, Other	291.99		1	17	0.0
Method Group 291.XX PPM			12	13	1.0
<b>TOTAL SELENIUM</b>					
Total Selenium, ICP	301.30		5	<1	0.6
Method Group 301.XX PPM			5	1	0.7
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04 311.00		2	0.51	0.00
Sodium, Other	311.99		9	0.48	0.06
Method Group 311.XX PCT			11	0.51	0.07
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, ICP	321.30		9	55	4.2
Acid Soluble Zinc, Other	321.99		2	54	0.2
Method Group 321.XX PPM			11	55	4.8
<b>FLUORIDE</b>					
Volumetric	325.10		12	2.97	0.34
Distilled/Electrode	325.99		3	3.09	0.10

