

# AFPC

**Sample**

**2009-07**

**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	1	11.33	0.00
Ammoniacal Nitrogen, Other		001.99	12	11.26	0.04
Method Group 001.XX PCT			13	11.27	0.05
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	2	11.32	0.00
Total Nitrogen, Combustion	993.13	010.60	24	11.29	0.12
Total Nitrogen, Other		010.99	3	11.23	0.05
Method Group 010.XX PCT			29	11.29	0.10
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	1	52.66	0.00
Total Phosphate, Spectrometric	978.02	020.20	21	52.76	0.22
Total Phosphate, ICP	970.03	020.40	4	52.59	0.22
Method Group 020.XX PCT			26	52.72	0.26
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	15	0.11	0.04
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.14	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.17	0.00
Insoluble Phosphate, Other		030.99	1	0.24	0.00
Method Group 030.XX PCT			18	0.14	0.06
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	15	52.64	0.16
Indirect Available Phosphate, Automated	960.02	040.40	1	52.36	0.00
Indirect Available Phosphate, Other		040.99	3	52.78	0.31
Method Group 040.XX PCT			19	52.64	0.25
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	4	52.64	2.12
Direct Available Phosphate, Automated	978.01	041.40	2	52.66	0.14

Direct Available Phosphate, ICP		041.50	4	51.98	0.41
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	52.54	1.26
Method Group 041.XX PCT			14	52.43	0.67
<b>WATER SOLUBLE PHOSPHATE</b>					
Water Soluble Phosphate, Spectrometric	970.01	048.20	17	48.75	0.33
Water Soluble Phosphate, Other		048.99	1	48.91	0.00
Method Group 048.XX PCT			18	48.76	0.39
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, ICP(Oxalate)		050.50	4	0.14	0.00
Soluble Potash, Other		050.99	3	0.13	0.01
Method Group 050.XX PCT			7	0.14	0.01
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	15	0.95	0.17
Free Water, Vacuum Desiccate	965.08A	060.10	2	0.93	0.06
Free Water, Other		060.99	1	0.68	0.00
Method Group 060.XX PCT			18	0.94	0.18
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, ICP		101.30	17	0.88	0.03
Method Group 101.XX PCT			17	0.88	0.04
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, ICP		121.30	17	1.19	0.03
Method Group 121.XX PCT			17	1.19	0.03
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	3	1.69	0.10
Sulfur, Spectrometric		144.70	2	1.64	0.00
Sulfur, Other		144.99	9	1.62	0.05
Method Group 144.XX PCT			14	1.63	0.04
<b>TOTAL SULFUR (S)</b>					
Sulfur, Other		145.99	5	1.69	0.31
Method Group 145.XX PCT			5	1.69	0.38
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	6	15	4.5
Total Arsenic, Other		151.99	1	8	0.0

Method Group 151.XX PPM		7	15	5.9
<b>ACID SOLUBLE BORON</b>				
Acid Soluble Boron, Other	165.99	2	35	1.3
Method Group 165.XX PPM		2	35	1.6
<b>TOTAL CADMIUM</b>				
Total Cadmium, ICP	181.30	9	139	5.7
Total Cadmium, Other	181.99	1	145	0.0
Method Group 181.XX PPM		10	139	7.3
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>				
ICP, %		15	1.38	0.05
Water Soluble Chlorine, Other, %	190.99	1	1.36	0.00
Method Group 190.XX PCT		16	1.37	0.05
<b>TOTAL CHROMIUM</b>				
Total Chromium, ICP	191.30	10	459	18.7
Total Chromium, Other	191.99	1	427	0.0
Method Group 191.XX PPM		11	457	21.8
<b>ACID SOLUBLE COBALT</b>				
Acid Soluble Cobalt, ICP	202.30	7	4	0.1
Acid Soluble Cobalt, Other	202.99	1	4	0.0
Method Group 202.XX PPM		8	4	0.1
<b>ACID SOLUBLE COPPER</b>				
Acid Soluble Copper, ICP	221.30	7	75	3.3
Acid Soluble Copper, Other	221.99	1	0	0.0
Method Group 221.XX PPM		8	74	4.4
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>				
Acid Soluble Iron, ICP	241.30	17	0.92	0.02
Method Group 241.XX PCT		17	0.92	0.03
<b>TOTAL LEAD</b>				
Total Lead, ICP	251.30	7	3	1.3
Total Lead, Other	251.99	1	2	0.0
Method Group 251.XX PPM		8	3	1.7
<b>ACID SOLUBLE MANGANESE</b>				
Acid Soluble Manganese, ICP	972.02a 261.30	5	150	3.7

Acid Soluble Manganese, Other	261.99	5	145	6.7
Method Group 261.XX PPM		10	150	8.3
<b>TOTAL MOLYBDENUM</b>				
Total Molybdenum, ICP	289.30	8	14	0.5
Total Molybdenum, Other	289.99	1	16	0.0
Method Group 289.XX PPM		9	14	1.1
<b>TOTAL NICKEL</b>				
Total Nickel, ICP	291.30	8	239	14.7
Total Nickel, Other	291.99	1	224	0.0
Method Group 291.XX PPM		9	236	17.3
<b>TOTAL SELENIUM</b>				
Total Selenium, ICP	301.30	1		0.0
Method Group 301.XX PPM		1	0	0.0
<b>SODIUM AS Na<sub>2</sub>O</b>				
Sodium, Other	311.99	7	0.22	0.02
Method Group 311.XX PCT		7	0.22	0.03
<b>ACID SOLUBLE ZINC</b>				
Acid Soluble Zinc, ICP	321.30	8	1695.0	314.1
Acid Soluble Zinc, Other	321.99	2	1570.3	1.3
Method Group 321.XX PPM		10	1691.3	126.3
<b>FLUORIDE</b>				
Volumetric	325.10	11	1.62	0.06
Distilled/Electrode	325.99	2	1.70	0.01
Method Group 325.XX PCT		13	1.66	0.07