

# AFPC

**Sample**

**2006-10**

**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	3	10.67	0.04
Ammoniacal Nitrogen, Other		001.99	9	10.71	0.10
Method Group 001.XX PCT			12	10.71	0.10
<b>AMMON &amp; NITRATE N</b>					
Ammon & Nitrate N, Other		009.99	1	10.71	0.00
Method Group 009.XX PCT			1	10.71	0.00
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	10.78	0.08
Total Nitrogen, Salicylic	955.04d	010.12	1	10.63	0.00
Total Nitrogen, Combustion	993.13	010.60	28	10.68	0.20
Method Group 010.XX PCT			32	10.68	0.24
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	3	52.47	1.07
Total Phosphate, Spectrometric	978.02	020.20	15	52.25	0.40
Total Phosphate, Automated	970.03	020.40	5	52.45	0.59
Total Phosphate, Other	993.13	020.99	1	52.83	0.00
Method Group 020.XX PCT			24	52.36	0.54
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.16	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	7	0.03	0.02
Insoluble Phosphate, Automated	978.01	030.40	3	0.03	0.01
Insoluble Phosphate, ICP		030.50	2	0.06	0.00
Insoluble Phosphate, Other		030.99	1	0.90	0.00
Method Group 030.XX PCT			14	0.04	0.03
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	52.32	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	5	52.10	0.07

Indirect Available Phosphate, Automated	960.02	040.40	5	52.42	0.50
Indirect Available Phosphate, Other		040.99	2	52.02	0.13
Method Group 040.XX PCT			13	52.19	0.24
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	7	52.37	0.10
Direct Available Phosphate, Automated	978.01	041.40	4	52.34	1.02
Direct Available Phosphate, ICP		041.50	5	52.05	0.84
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	52.57	0.08
Direct Available Phosphate, Other		041.99	1	52.33	0.00
Method Group 041.XX PCT			20	52.36	0.27
<b>WATER SOLUBLE PHOSPHATE</b>					
Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	47.04	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	9	46.92	0.34
Water Soluble Phosphate, Other		048.99	5	45.79	1.09
Method Group 048.XX PCT			15	46.92	0.68
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, Atomic Absorption(Oxalate)		050.30	1	1.06	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.29	0.00
Soluble Potash, Other		050.99	8	0.30	0.04
Method Group 050.XX PCT			10	0.30	0.02
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	12	3.87	0.39
Free Water, Vacuum Desiccate	965.08A	060.10	2	3.38	0.17
Free Water, Other		060.99	1	4.99	0.00
Method Group 060.XX PCT			15	3.81	0.58
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, ICP		101.30	15	0.52	0.04
Method Group 101.XX PCT			15	0.52	0.05
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, ICP		121.30	16	2.07	0.12
Method Group 121.XX PCT			16	2.07	0.14
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	2	1.35	0.01

Sulfur, Other		144.99	13	1.34	0.07
Method Group 144.XX PCT			15	1.34	0.07

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**TOTAL ARSENIC**

Total Arsenic, ICP	980.02(b)	151.02	4	3	2.2
Total Arsenic, Other		151.99	2	3	0.0
Method Group 151.XX PPM			6	3	0.5

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**ACID SOLUBLE BORON**

Acid Soluble Boron, Other		165.99	4	151	93.5
Method Group 165.XX PPM			4	151	113.9

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**TOTAL CADMIUM**

Total Cadmium, Atomic Absorbtion		181.00	1	51	0.0
Total Cadmium, ICP		181.30	7	50	3.4
Total Cadmium, Other		181.99	1	59	0.0
Method Group 181.XX PPM			9	51	3.8

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**ALUMINUM AS Al<sub>2</sub>O<sub>3</sub>**

ICP, %			12	1.08	0.04
Water Soluble Chlorine, Other, %		190.99	2	1.14	0.07
Method Group 190.XX PCT			14	1.08	0.06

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**TOTAL CHROMIUM**

Total Chromium, ICP		191.30	8	390	26.6
Total Chromium, Other		191.99	1	421	0.0
Method Group 191.XX PPM			9	396	29.3

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**ACID SOLUBLE COBALT**

Acid Soluble Cobalt, ICP		202.30	7	3	1.3
Acid Soluble Cobalt, Other		202.99	1	2	0.0
Method Group 202.XX PPM			8	3	2.0

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**ACID SOLUBLE COPPER**

Acid Soluble Copper, ICP		221.30	5	2	4.1
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			6	2	4.0

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

Acid Soluble Iron, Atomic Absorption	980.01	241.00	1	2.06	0.00
Acid Soluble Iron, ICP		241.30	15	2.15	0.12

Acid Soluble Iron, Other		241.99	1	2.25	0.00
Method Group 241.XX PCT			17	2.15	0.13
<b>TOTAL LEAD</b>					
Total Lead, ICP		251.30	1	1	0.0
Total Lead, Other		251.99	1	6	0.0
Method Group 251.XX PPM			2	4	1.9
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, ICP	972.02a	261.30	7	112	8.2
Acid Soluble Manganese, Other		261.99	1	117	0.0
Method Group 261.XX PPM			8	112	11.0
<b>WATER SOLUBLE MANGANESE</b>					
Method Group 271.XX PCT			1	0.04	0
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP		289.30	7	18	2.5
Total Molybdenum, Other		289.99	1	21	0.0
Method Group 289.XX PPM			8	18	3.6
<b>TOTAL NICKEL</b>					
Total Nickel, ICP		291.30	7	52	3.3
Total Nickel, Other		291.99	1	61	0.0
Method Group 291.XX PPM			8	53	5.3
<b>TOTAL SELENIUM</b>					
Total Selenium, ICP		301.30	1	<1	0.0
Method Group 301.XX PPM			1	15	0.0
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04	311.00	2	0.33	0.00
Sodium, Other		311.99	7	0.31	0.04
Method Group 311.XX PCT			9	0.31	0.02
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, ICP		321.30	9	866	74.0
Method Group 321.XX PPM			9	866	90.2
<b>FLUORIDE</b>					
Volumetric		325.10	8	0.71	0.03
Distilled/Electrode		325.99	4	0.71	0.04

