

# AFPC

**Sample**

**2010-11**

**Grade**

**18-46-0**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, Other		001.99	10	17.47	0.04
Method Group 001.XX PCT			10	17.47	0.04
<b>NITRATE NITROGEN</b>					
Nitrate Nitrogen, Other		002.99	1		0.00
Method Group 002.XX PCT			1	0.00	0.00
<b>PERCENT UREA</b>					
Percent UREA, Other		007.99	1	17.65	0.00
Method Group 007.XX PCT			1	17.65	0.00
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	18.08	0.05
Total Nitrogen, Salicylic	955.04d	010.12	1	18.21	0.00
Total Nitrogen, Combustion	993.13	010.60	26	18.09	0.19
Total Nitrogen, Other		010.99	6	18.07	0.07
Method Group 010.XX PCT			37	18.08	0.15
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	2	46.44	0.20
Total Phosphate, Spectrometric	978.02	020.20	21	46.50	0.20
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	46.74	0.00
Total Phosphate, ICP, Lithium	970.02	020.50	1	46.50	0.00
Total Phosphate, Other	993.13	020.99	2	46.60	0.19
Method Group 020.XX PCT			27	46.50	0.29
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	15	0.38	0.08
Insoluble Phosphate, Automated	978.01	030.40	1	0.36	0.00
Insoluble Phosphate, ICP		030.50	1	0.38	0.00
Method Group 030.XX PCT			17	0.38	0.08

**INDIRECT AVAILABLE PHOSPHATE**

AFPC Check Sample  
11-2010

Indirect Available Phosphate, Spectrometric	960.02	040.20	15	46.15	0.22
Indirect Available Phosphate, ICP		040.50	1	46.12	0.00
Indirect Available Phosphate, Other		040.99	1	46.13	0.00
Method Group 040.XX PCT			17	46.13	0.25

---

**DIRECT AVAILABLE PHOSPHATE**

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	4	46.11	0.41
Direct Available Phosphate, Automated	978.01	041.40	4	46.53	0.24
Direct Available Phosphate, ICP		041.50	5	45.26	0.39
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	45.93	0.22
Method Group 041.XX PCT			18	45.89	0.73

---

**WATER SOLUBLE PHOSPHATE**

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	40.64	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	15	41.50	0.26
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	40.58	0.00
Water Soluble Phosphate, Other		048.99	2	41.51	0.15
Method Group 048.XX PCT			19	41.44	0.39

---

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

Soluble Potash, ICP(Oxalate)		050.50	2	0.10	0.00
Soluble Potash, Flame Photometric(Oxalate)	983.02B(a)	050.60	1	0.10	0.00
Soluble Potash, Other		050.99	7	0.11	0.00
Method Group 050.XX PCT			10	0.11	0.01

---

**FREE WATER**

Free Water, Vacuum Oven	965.08B	060.00	18	1.98	0.10
Free Water, Vacuum Desiccate	965.08A	060.10	3	3.74	0.84
Method Group 060.XX PCT			21	1.98	0.14

---

**ACID SOLUBLE CALCIUM AS CaO**

Acid Soluble Calcium, ICP		101.30	17	0.19	0.02
Method Group 101.XX PCT			17	0.19	0.03

---

**ACID SOLUBLE MAGNESIUM AS MgO**

Acid Soluble Magnesium, ICP		121.30	16	1.10	0.08
Method Group 121.XX PCT			16	1.10	0.10

---

**SULFATE SULFUR (S)**

Sulfur, Gravimetric	980.02(a)	144.01	3	1.69	0.05
---------------------	-----------	--------	---	------	------

Sulfur, Spectrometric		144.70	2	1.66	0.00
Sulfur, Other		144.99	8	1.65	0.05
Method Group 144.XX PCT			13	1.66	0.04
<b>TOTAL SULFUR (S)</b>					
Sulfur, Other		145.99	6	1.58	0.16
Method Group 145.XX PCT			6	1.58	0.20
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	8	11	2.2
Method Group 151.XX PPM			8	11	2.7
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	2	34	1.6
Method Group 165.XX PPM			2	34	2.0
<b>TOTAL CADMIUM</b>					
Total Cadmium, ICP		181.30	7	3	0.2
Total Cadmium, Other		181.99	1	3	0.0
Method Group 181.XX PPM			8	3	0.3
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			15	1.67	0.05
Method Group 190.XX PCT			15	1.67	0.06
<b>TOTAL CHROMIUM</b>					
Total Chromium, ICP		191.30	8	86	4.4
Total Chromium, Other		191.99	1	81	0.0
Method Group 191.XX PPM			9	84	6.3
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP		202.30	6	3	0.2
Acid Soluble Cobalt, Other		202.99	1	3	0.0
Method Group 202.XX PPM			7	3	0.3
<b>ACID SOLUBLE COPPER</b>					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	1	0.0
Acid Soluble Copper, ICP		221.30	6	3	0.0
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			7	3	0.2
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					

Acid Soluble Iron, ICP		241.30	16	1.37	0.06
Method Group 241.XX PCT			17	1.38	0.06
<b>TOTAL LEAD</b>					
Total Lead, ICP		251.30	4	1	0.4
Total Lead, Other		251.99	1	1	0.0
Method Group 251.XX PPM			5	1	0.5
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, ICP	972.02a	261.30	4	318	11.5
Acid Soluble Manganese, Other		261.99	5	306	31.7
Method Group 261.XX PPM			9	313	28.6
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP		289.30	7	14	0.8
Total Molybdenum, Other		289.99	1	14	0.0
Method Group 289.XX PPM			8	14	0.8
<b>TOTAL NICKEL</b>					
Total Nickel, ICP		291.30	7	14	1.0
Total Nickel, Other		291.99	1	14	0.0
Method Group 291.XX PPM			8	14	1.0
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.10	0.00
Sodium, Other		311.99	8	0.12	0.02
Method Group 311.XX PCT			9	0.11	0.03
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	58.0	0.0
Acid Soluble Zinc, ICP		321.30	6	51.6	10.1
Acid Soluble Zinc, Other		321.99	2	58.3	0.2
Method Group 321.XX %			9	58.0	9.5
<b>FLUORIDE</b>					
Volumetric		325.10	12	1.47	0.06
Distilled/Electrode		325.99	3	1.48	0.13
Method Group 325.XX PCT			15	1.47	0.07