

# AFPC

**Sample**

**2010-09**

**Grade**

**18-46-0**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, Other		001.99	8	18.39	0.27
Method Group 001.XX PCT			7	18.39	0.22
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	6	18.38	0.10
Total Nitrogen, Salicylic	955.04d	010.12	2	18.50	0.02
Total Nitrogen, Combustion	993.13	010.60	25	18.45	0.15
Total Nitrogen, Other		010.99	6	18.41	0.07
Method Group 010.XX PCT			37	18.45	0.16
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	2	46.88	0.23
Total Phosphate, Spectrometric	978.02	020.20	23	46.42	0.20
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	46.51	0.00
Total Phosphate, ICP, Lithium	970.02	020.50	1	46.52	0.00
Total Phosphate, Other	993.13	020.99	1	47.35	0.00
Method Group 020.XX PCT			25	46.42	0.27
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	15	0.04	0.02
Insoluble Phosphate, Automated	978.01	030.40	1	0.07	0.00
Insoluble Phosphate, ICP		030.50	1	0.04	0.00
Insoluble Phosphate, Other		030.99	1	0.06	0.00
Method Group 030.XX PCT			17	0.04	0.02
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	15	46.37	0.19
Indirect Available Phosphate, ICP		040.50	1	46.48	0.00
Indirect Available Phosphate, Other		040.99	2	46.83	0.35
Method Group 040.XX PCT			17	46.37	0.24

**DIRECT AVAILABLE PHOSPHATE**

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Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	6	46.25	0.20
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	45.65	0.00
Direct Available Phosphate, Automated	978.01	041.40	7	46.24	0.34
Direct Available Phosphate, ICP		041.50	5	45.56	0.79
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	46.25	0.13
Direct Available Phosphate, Other		041.99	1	47.32	0.00
Method Group 041.XX PCT			23	46.22	0.59

#### **WATER SOLUBLE PHOSPHATE**

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	43.87	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	15	44.00	0.21
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	40.04	0.00
Water Soluble Phosphate, Other		048.99	2	44.33	0.10
Method Group 048.XX PCT			17	44.00	0.20

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

Soluble Potash, ICP(Oxalate)		050.50	2	0.18	0.00
Soluble Potash, Flame Photometric(Oxalate)	983.02B(a)	050.60	1	0.20	0.00
Soluble Potash, Other		050.99	7	0.19	0.05
Method Group 050.XX PCT			9	0.19	0.01

#### **FREE WATER**

Free Water, Vacuum Oven	965.08B	060.00	18	1.60	0.09
Free Water, Vacuum Desiccate	965.08A	060.10	2	1.93	0.32
Method Group 060.XX PCT			17	1.60	0.10

#### **ACID SOLUBLE CALCIUM AS CaO**

Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.55	0.00
Acid Soluble Calcium, ICP		101.30	16	0.49	0.05
Method Group 101.XX PCT			16	0.50	0.06

#### **ACID SOLUBLE MAGNESIUM AS MgO**

Acid Soluble Magnesium, ICP		121.30	15	1.29	0.13
Method Group 121.XX PCT			15	1.29	0.16

#### **SULFATE SULFUR (S)**

Sulfur, Gravimetric	980.02(a)	144.01	4	2.30	0.02
Sulfur, Spectrometric		144.70	2	2.18	0.00
Sulfur, Other		144.99	8	2.19	0.07

Method Group 144.XX PCT			12	2.19	0.05
<b>TOTAL SULFUR (S)</b>					
Sulfur, Other	145.99		6	2.16	0.11
Method Group 145.XX PCT			6	2.16	0.13
<b>TOTAL ARSENIC</b>					
Total Arsenic, Atomic Absorbtion	980.02(a)	151.01	1	0.15	0.0
Total Arsenic, ICP	980.02(b)	151.02	3	1	0.1
Method Group 151.XX PPM			3	1	0.2
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other	165.99		2	90	1.4
Method Group 165.XX PPM			2	90	1.8
<b>TOTAL CADMIUM</b>					
Total Cadmium, Atomic Absorbtion	181.00		2	25	1.4
Total Cadmium, ICP	181.30		8	25	1.7
Total Cadmium, Other	181.99		1	27	0.0
Method Group 181.XX PPM			9	25	2.0
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			15	0.48	0.01
Water Soluble Chlorine, Other, %	190.99		1	0.45	0.00
Method Group 190.XX PCT			15	0.48	0.02
<b>TOTAL CHROMIUM</b>					
Total Chromium, Atomic Absorbtion	191.00		1	208	0.0
Total Chromium, ICP	191.30		7	244	5.5
Total Chromium, Other	191.99		1	233	0.0
Method Group 191.XX PPM			8	238	7.6
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP	202.30		4	1	0.1
Acid Soluble Cobalt, Other	202.99		1	0	0.0
Method Group 202.XX PPM			5	1	0.0
<b>ACID SOLUBLE COPPER</b>					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	1	0.0
Acid Soluble Copper, ICP		221.30	2	1	0.2
Acid Soluble Copper, Other		221.99	1	0	0.0

Method Group 221.XX PPM			3	1	0.3
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					
Acid Soluble Iron, ICP	241.30		15	0.61	0.02
Method Group 241.XX PCT			15	0.61	0.03
<b>TOTAL LEAD</b>					
Total Lead, ICP	251.30		2	1	0.2
Total Lead, Other	251.99		1	0	0.0
Method Group 251.XX PPM			3	1	0.3
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, Atomic Absorption	972.02a	261.00	1	25	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	2	33	0.4
Acid Soluble Manganese, Other		261.99	5	32	2.1
Method Group 261.XX PPM			7	32	2.2
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP	289.30		5	3	0.1
Total Molybdenum, Other	289.99		1	4	0.0
Method Group 289.XX PPM			6	3	0.4
<b>TOTAL NICKEL</b>					
Total Nickel, Atomic Absorbtion	291.00		1	9	0.0
Total Nickel, ICP	291.30		6	10	0.0
Total Nickel, Other	291.99		1	13	0.0
Method Group 291.XX PPM			7	10	0.3
Total Selenium, Atomic Absorbtion	301.00		1	0	0.0
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04	311.00	2	0.51	0.15
Sodium, Other		311.99	8	0.31	0.02
Method Group 311.XX PCT			9	0.31	0.03
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	285.4	0.0
Acid Soluble Zinc, ICP		321.30	6	304.5	18.9
Acid Soluble Zinc, Other		321.99	2	307.8	1.7
Method Group 321.XX %			8	305.5	17.3

**FLUORIDE**

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Volumetric	325.10	11	1.31	0.04
Distilled/Electrode	325.99	3	1.26	0.04
Method Group 325.XX PCT		13	1.30	0.05

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