

# AFPC

**Sample**

**2012-09**

**Grade**

**18-46-0**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, Other		001.99	8	18.43	0.03
Method Group 001.XX PCT			8	18.43	0.03
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	18.32	0.09
Total Nitrogen, Salicylic	955.04d	010.12	2	18.46	0.20
Total Nitrogen, Combustion	993.13	010.60	25	18.33	0.15
Total Nitrogen, Other		010.99	6	18.41	0.08
Method Group 010.XX PCT			37	18.34	0.18
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	4	46.37	0.57
Total Phosphate, Spectrometric	978.02	020.20	23	46.43	0.19
Total Phosphate, ICP	970.03	020.40	2	46.24	0.01
Total Phosphate, ICP, Lithium	970.02	020.50	1	46.53	0.00
Method Group 020.XX PCT			30	46.39	0.22
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	14	0.04	0.02
Insoluble Phosphate, Automated	978.01	030.40	2	0.04	0.01
Method Group 030.XX PCT			16	0.04	0.02
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	46.32	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	13	46.30	0.15
Indirect Available Phosphate, Other		040.99	2	46.50	0.01
Method Group 040.XX PCT			16	46.34	0.19
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	6	46.17	0.34
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	45.09	0.00
Direct Available Phosphate, Automated	978.01	041.40	3	46.08	0.37

Direct Available Phosphate, ICP		041.50	5	46.03	1.13
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	46.83	0.38
Direct Available Phosphate, Other		041.99	1	45.98	0.00
Method Group 041.XX PCT			19	46.08	0.58

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**WATER SOLUBLE PHOSPHATE**

Water Soluble Phosphate, Spectrometric	970.01	048.20	18	43.87	0.61
Water Soluble Phosphate, Other		048.99	1	44.01	0.00
Method Group 048.XX PCT			19	43.90	0.60

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

Soluble Potash, ICP(Oxalate)		050.50	3	0.21	0.03
Soluble Potash, ICP(Citrate)		050.51	1	0.15	0.00
Soluble Potash, Other		050.99	7	0.20	0.01
Method Group 050.XX PCT			11	0.21	0.01

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**FREE WATER**

Free Water, Vacuum Oven	965.08B	060.00	15	1.29	0.20
Free Water, Vacuum Desiccate	965.08A	060.10	2	1.67	0.01
Free Water, Other		060.99	1	1.31	0.00
Method Group 060.XX PCT			18	1.35	0.23

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**ACID SOLUBLE CALCIUM AS CaO**

Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.39	0.00
Acid Soluble Calcium, ICP		101.30	17	0.47	0.03
Method Group 101.XX PCT			18	0.47	0.04

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**ACID SOLUBLE MAGNESIUM AS MgO**

Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.90	0.00
Acid Soluble Magnesium, ICP		121.30	17	1.32	0.07
Method Group 121.XX PCT			18	1.32	0.10

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**SULFATE SULFUR (S)**

Sulfur, Gravimetric	980.02(a)	144.01	5	2.34	0.20
Sulfur, Spectrometric		144.70	2	2.35	0.00
Sulfur, Other		144.99	7	2.30	0.03
Method Group 144.XX PCT			14	2.30	0.09

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**TOTAL SULFUR (S)**

Sulfur, Other		145.99	3	2.25	0.05
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Method Group 145.XX PCT			3	2.25	0.06
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	3	1	0.4
Total Arsenic, Other		151.99	1	2	0.0
Method Group 151.XX PPM			4	1	0.9
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	2	95	4.7
Method Group 165.XX PPM			2	95	5.8
<b>TOTAL CADMIUM</b>					
Total Cadmium, Atomic Absorbtion		181.00	2	28	2.2
Total Cadmium, ICP		181.30	7	29	0.4
Total Cadmium, Other		181.99	1	32	0.0
Method Group 181.XX PPM			10	29	0.9
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			14	0.56	0.02
Method Group 190.XX PCT			14	0.56	0.02
<b>TOTAL CHROMIUM</b>					
Total Chromium, Atomic Absorbtion		191.00	1	282	0.0
Total Chromium, ICP		191.30	7	255	9.0
Total Chromium, Other		191.99	1	237	0.0
Method Group 191.XX PPM			9	255	12.8
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP		202.30	4	1	0.4
Acid Soluble Cobalt, Other		202.99	1	1	0.0
Method Group 202.XX PPM			5	1	0.5
<b>ACID SOLUBLE COPPER</b>					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	1	0.1
Acid Soluble Copper, ICP		221.30	2	1	0.0
Method Group 221.XX PPM			3	1	0.2
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					
Acid Soluble Iron, ICP		241.30	17	0.67	0.02
Method Group 241.XX PCT			18	0.66	0.02

**TOTAL LEAD**

AFPC Check Sample  
09-2012

Total Lead, ICP		251.30	3	1	0.4
Method Group 251.XX PPM			3	1	0.5
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, Atomic Absorption	972.02a	261.00	1	36	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	3	39	0.3
Acid Soluble Manganese, Other		261.99	5	37	3.7
Method Group 261.XX PPM			9	38	2.6
<b>TOTAL MERCURY</b>					
Total Mercury, Atomic Absorbtion		281.00	1	0	0.00
Method Group 281.XX PPM			1	0.00	0.00
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP		289.30	6	4	1.0
Total Molybdenum, Other		289.99	1	4	0.0
Method Group 289.XX PPM			7	4	1.0
<b>TOTAL NICKEL</b>					
Total Nickel, ICP		291.30	5	11	0.7
Total Nickel, Other		291.99	1	13	0.0
Method Group 291.XX PPM			6	11	0.9
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.32	0.00
Sodium, Other		311.99	8	0.31	0.03
Method Group 311.XX PCT			9	0.32	0.03
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	331.0	0.00
Acid Soluble Zinc, ICP		321.30	7	331.5	9.5
Acid Soluble Zinc, Other		321.99	2	314.3	0.6
Method Group 321.XX, PPM			10	330.0	16.6
<b>FLUORIDE</b>					
Volumetric		325.10	9	1.30	0.03
Distilled/Electrode		325.99	3	1.44	0.02
Method Group 325.XX PCT			12	1.31	0.07