

AFPC

Sample

2012-04

Grade

12-40-0-10-1

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	12.01	0.00
Ammoniacal Nitrogen, Other		001.99	9	12.00	0.06
Method Group 001.XX PCT			10	12.00	0.06
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	2	11.91	0.03
Total Nitrogen, Salicylic	955.04d	010.12	2	13.15	0.95
Total Nitrogen, Combustion	993.13	010.60	20	11.97	0.17
Total Nitrogen, Other		010.99	1	11.71	0.00
Method Group 010.XX PCT			25	11.95	0.20
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	40.95	0.33
Total Phosphate, Spectrometric	978.02	020.20	19	40.85	0.19
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	41.03	0.00
Total Phosphate, ICP	970.03	020.40	2	40.74	0.13
Method Group 020.XX PCT			24	40.86	0.28
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	12	0.57	0.33
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.35	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.57	0.01
Method Group 030.XX PCT			15	0.56	0.31
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	13	40.33	0.50
Indirect Available Phosphate, Automated	960.02	040.40	1	39.97	0.00
Indirect Available Phosphate, Other		040.99	1	40.35	0.00
Method Group 040.XX PCT			15	40.33	0.55
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	4	40.23	0.66

Direct Available Phosphate, Automated	978.01	041.40	2	41.32	0.62
Direct Available Phosphate, ICP		041.50	5	39.74	0.54
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	40.25	0.24
Method Group 041.XX PCT			15	40.09	0.57
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	13	35.80	0.34
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	35.46	0.00
Water Soluble Phosphate, Other		048.99	1	35.67	0.00
Method Group 048.XX PCT			15	35.69	0.39
SOLUBLE POTASH AS K₂O					
Soluble Potash, Atomic Absorption(Oxalate)		050.30	1	0.93	0.00
Soluble Potash, ICP(Oxalate)		050.50	2	0.12	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.14	0.00
Soluble Potash, Other		050.99	7	0.13	0.01
Method Group 050.XX PCT			11	0.13	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	14	0.77	0.07
Free Water, Vacuum Desiccate	965.08A	060.10	2	0.66	0.00
Method Group 060.XX PCT			16	0.75	0.14
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	16	0.41	0.01
Method Group 101.XX PCT			16	0.41	0.01
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	16	0.72	0.03
Method Group 121.XX PCT			16	0.72	0.04
SULFATE SULFUR (S)					
Sulfur, Other		144.99	13	5.14	0.12
Method Group 144.XX PCT			13	5.14	0.14
TOTAL SULFUR (S)					
Sulfur, Other		145.99	15	10.24	0.16
Method Group 145.XX PCT			15	10.24	0.20
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	5	9	1.0

Total Arsenic, Other	151.99	1	10	0.0
Method Group 151.XX PPM		6	9	1.3
ACID SOLUBLE BORON				
Acid Soluble Boron, Other	165.99	2	49	0.1
Method Group 165.XX PPM		2	49	0.2
TOTAL CADMIUM				
Total Cadmium, ICP	181.30	5	4	0.3
Total Cadmium, Other	181.99	1	4	0.0
Method Group 181.XX PPM		6	4	0.3
ALUMINUM AS Al₂O₃				
ICP, %		14	1.56	0.04
Water Soluble Chlorine, Other, %	190.99	1	1.67	0.00
Method Group 190.XX PCT		15	1.56	0.06
TOTAL CHROMIUM				
Total Chromium, ICP	191.30	6	69	1.9
Total Chromium, Other	191.99	1	66	0.0
Method Group 191.XX PPM		7	69	2.9
ACID SOLUBLE COBALT				
Acid Soluble Cobalt, ICP	202.30	5	3	0.0
Acid Soluble Cobalt, Other	202.99	1	3	0.0
Method Group 202.XX PPM		6	3	0.1
ACID SOLUBLE COPPER				
Acid Soluble Copper, ICP	221.30	5	2	2.6
Acid Soluble Copper, Other	221.99	1	0	0.0
Method Group 221.XX PPM		6	2	2.4
ACID SOLUBLE IRON AS Fe₂O₃				
Acid Soluble Iron, ICP	241.30	16	1.27	0.04
Method Group 241.XX PCT		16	1.27	0.05
TOTAL LEAD				
Total Lead, ICP	251.30	3	2	0.1
Total Lead, Other	251.99	1	3	0.0
Method Group 251.XX PPM		4	2	0.4

ACID SOLUBLE MANGANESE

AFPC Check Sample
04-2012

Acid Soluble Manganese, ICP	972.02a	261.30	3	280	10.1
Acid Soluble Manganese, Other		261.99	5	279	25.0
Method Group 261.XX PPM			8	279	21.7
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	5	12	0.6
Total Molybdenum, Other		289.99	1	12	0.0
Method Group 289.XX PPM			6	12	0.7
TOTAL NICKEL					
Total Nickel, ICP		291.30	5	13	0.7
Total Nickel, Other		291.99	1	15	0.0
Method Group 291.XX PPM			6	13	1.5
TOTAL SELENIUM					
Total Selenium, ICP		301.30	1	1	0.0
Method Group 301.XX PPM			1	1	0.0
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.19	0.00
Sodium, Other		311.99	8	0.19	0.02
Method Group 311.XX PCT			9	0.19	0.02
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	2	1.02	0.01
Acid Soluble Zinc, ICP		321.30	14	1.07	0.07
Acid Soluble Zinc, Other		321.99	2	0.89	0.01
Method Group 321.XX %			18	1.05	0.07
FLUORIDE					
Volumetric		325.10	11	1.81	0.07
Distilled/Electrode		325.99	2	1.84	0.03
Method Group 325.XX PCT			13	1.81	0.09