

AFPC

Sample

2007-02

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	3	11.16	0.29
Ammoniacal Nitrogen, Other		001.99	10	11.06	0.13
Method Group 001.XX PCT			13	11.07	0.19
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	2	11.10	0.07
Total Nitrogen, Salicylic	955.04d	010.12	2	10.98	0.05
Total Nitrogen, Combustion	993.13	010.60	32	11.09	0.19
Total Nitrogen, Other		010.99	3	11.07	0.07
Method Group 010.XX PCT			39	11.07	0.21
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	4	52.02	0.61
Total Phosphate, Spectrometric	978.02	020.20	16	52.24	0.48
Total Phosphate, Automated	970.03	020.40	4	52.50	0.09
Total Phosphate, Other	993.13	020.99	2	51.73	0.64
Method Group 020.XX PCT			26	52.28	0.58
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.45	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	7	0.18	0.04
Insoluble Phosphate, Automated	978.01	030.40	3	0.28	0.03
Insoluble Phosphate, ICP		030.50	2	0.25	0.01
Method Group 030.XX PCT			13	0.20	0.08
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	51.56	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	7	52.14	0.36
Indirect Available Phosphate, Automated	960.02	040.40	4	52.26	0.10
Indirect Available Phosphate, Other		040.99	1	52.33	0.00
Method Group 040.XX PCT			13	52.23	0.29

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	8	52.63	0.28
Direct Available Phosphate, Automated	978.01	041.40	5	52.46	0.35
Direct Available Phosphate, ICP		041.50	5	52.31	0.26
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	52.40	0.08
Method Group 041.XX PCT			22	52.41	0.39

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	47.05	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	6	47.86	0.20
Water Soluble Phosphate, Other		048.99	6	47.37	0.51
Method Group 048.XX PCT			13	47.65	0.67

SOLUBLE POTASH AS K₂O

Soluble Potash, Atomic Absorption(Oxalate)		050.30	1	1.11	0.00
Soluble Potash, ICP(Oxalate)		050.50	1	0.15	0.00
Soluble Potash, ICP(Citrate)		050.51	2	0.11	0.03
Soluble Potash, Other		050.99	7	0.13	0.02
Method Group 050.XX PCT			11	0.14	0.03

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	11	1.18	0.16
Free Water, Vacuum Desiccate	965.08A	060.10	3	0.95	0.07
Free Water, Other		060.99	1	1.81	0.00
Method Group 060.XX PCT			15	1.06	0.24

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, ICP		101.30	15	0.90	0.03
Method Group 101.XX PCT			15	0.90	0.04

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, ICP		121.30	16	1.56	0.04
Method Group 121.XX PCT			16	1.56	0.04

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	2	1.90	0.03
Sulfur, Other		144.99	13	1.68	0.10
Method Group 144.XX PCT			15	1.68	0.12

TOTAL ARSENIC

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Total Arsenic, ICP	980.02(b)	151.02	7	19	3.0
Total Arsenic, Other		151.99	6	16	2.8
Method Group 151.XX PPM			13	18	2.9
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	3	34	80.1
Method Group 165.XX PPM			3	34	97.5
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	11	155	9.1
Total Cadmium, Other		181.99	1	132	0.0
Method Group 181.XX PPM			12	155	14.7
ALUMINUM AS Al₂O₃					
ICP, %			15	1.37	0.10
Method Group 190.XX PCT			15	1.37	0.12
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	10	460	37.2
Total Chromium, Other		191.99	1	367	0.0
Method Group 191.XX PPM			11	455	52.2
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	5	5	0.5
Acid Soluble Cobalt, Other		202.99	1	4	0.0
Method Group 202.XX PPM			6	5	0.9
ACID SOLUBLE COPPER					
Acid Soluble Copper, ICP		221.30	8	88	3.0
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			9	87	4.3
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	16	0.95	0.05
Method Group 241.XX PCT			16	0.95	0.07
TOTAL LEAD					
Total Lead, ICP		251.30	6	7	10.1
Total Lead, Other		251.99	1	2	0.0
Method Group 251.XX PPM			7	7	10.7
ACID SOLUBLE MANGANESE					

Acid Soluble Manganese, ICP	972.02a	261.30	7	184	45.2
Acid Soluble Manganese, Other		261.99	2	163	8.8
Method Group 261.XX PPM			9	183	16.8
WATER SOLUBLE MANGANESE					
Method Group 271.XX PCT			1	0.04	0
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	7	11	0.5
Total Molybdenum, Other		289.99	1	10	0.0
Method Group 289.XX PPM			8	11	0.6
TOTAL NICKEL					
Total Nickel, ICP		291.30	10	287	21.5
Total Nickel, Other		291.99	1	233	0.0
Method Group 291.XX PPM			11	286	26.1
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	2	0.18	0.00
Sodium, Other		311.99	8	0.20	0.01
Method Group 311.XX PCT			10	0.20	0.02
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	1690	0.0
Acid Soluble Zinc, ICP		321.30	11	1793	140.7
Method Group 321.XX PPM			12	1788	201.6
FLUORIDE					
Volumetric		325.10	10	1.51	0.10
Distilled/Electrode		325.99	4	1.43	0.05
Method Group 325.XX PCT			14	1.46	0.12