

M & K Farms

Gladstone, Illinois

FAX NO. (309) 627-2539
PHONE NO. (309) 627-2374

TO: Dennis
800-633-2814

DATE: 9/10/2010

FROM: Brian

NO. OF PAGE(S): 5
INCLUDING COVER

Manure Analysis from September 2009 for Barns 1 thru 4

NOTE: IF COPIES ARE DIFFICULT TO READ, PLEASE NOTIFY IMMEDIATELY.

Midwest**Report****Number:**

09-265-5048

Reported to:

TRI OAK FOODS

211 N GEAR

AVE

W BURLINGTON

IA, 52655

Sample ID:

SF 1 N

Project PO :**Date Reported:** Sep 22, 2009**Date Received:** Sep 17, 2009**MANURE ANALYSIS****Lab Number:** 10025013

Bio-Solids Analysis Report

VIEW YOUR SUBMITTAL FORM

Parameters	Analysis	Nutrients	Est. First Year
	as Received	lbs/1000gals	Availability
Ammonium Nitrogen (N)	0.27 %	22.6	23
Organic Nitrogen (N)	0.03 %	2.8	1
Total Nitrogen (N)	0.30 %	25.4	24
Phosphorus (P ₂ O ₅)	0.10 %	8.0	6
Potassium (K ₂ O)	0.26 %	22.3	20
Sulfur (S)	0.06 %	5.0	2
Calcium (Ca)	0.05 %	3.9	3
Magnesium (Mg)	0.03 %	2.8	2
Sodium (Na)	0.11 %	9.1	6
Copper (Cu)	11 ppm	0.09	0.07
Iron (Fe)	34 ppm	0.29	0.20
Manganese (Mn)	8 ppm	0.07	0.05
Zinc (Zn)	25 ppm	0.21	0.15
Moisture	97.9 %		
Total Solids	2.1 %	177.4	
Total Salts		60.7	
pH	7.5		

n.d. Non Detect

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered.

Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered.

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

Midwest

Report

Number:

09-265-5042

Reported to:

TRI OAK FOODS

211 N GEAR

AVE

W BURLINGTON

IA, 52655

Sample ID:

SF 2 N

Project PO :



Date Reported: Sep 22, 2009

Date Received: Sep 17, 2009

MANURE ANALYSIS

Lab Number: 10025007

Bio-Solids Analysis Report

VIEW YOUR SUBMITTAL FORM

Parameters	Analysis	Nutrients	Est. First Year
			Availability
	as Received	lbs/1000gals	lbs/1000gals
Ammonium Nitrogen (N)	0.25 %	20.9	21
Organic Nitrogen (N)	0.02 %	1.9	1
Total Nitrogen (N)	0.27 %	22.8	22
Phosphorus (P ₂ O ₅)	0.09 %	7.5	5
Potassium (K ₂ O)	0.19 %	16.3	15
Sulfur (S)	0.04 %	3.4	1
Calcium (Ca)	0.04 %	3.4	2
Magnesium (Mg)	0.03 %	2.9	2
Sodium (Na)	0.09 %	8.0	6
Copper (Cu)	8 ppm	0.07	0.05
Iron (Fe)	28 ppm	0.24	0.17
Manganese (Mn)	7 ppm	0.06	0.04
Zinc (Zn)	21 ppm	0.18	0.12
Moisture	98.2 %		
Total Solids	1.8 %	152.1	
Total Salts		51.5	
pH	7.4		

n.d. Non Detect

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Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

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Midwest

Report

Number:

09-265-5041

Reported to:

TRI OAK FOODS

211 N GEAR

AVE

W BURLINGTON

IA, 52655

Sample ID:

SF 3 N

Project PO :



Date Reported: Sep 22, 2009

Date Received: Sep 17, 2009

MANURE ANALYSIS

Lab Number: 10025006

Bio-Solids Analysis Report

VIEW YOUR SUBMITTAL FORM

Parameters	Analysis as Received	Nutrients lbs/1000gals	Est. First Year
			Availability lbs/1000gals
Ammonium Nitrogen (N)	0.29 %	24.2	24
Organic Nitrogen (N)	0.13 %	11.3	4
Total Nitrogen (N)	0.42 %	35.5	28
Phosphorus (P ₂ O ₅)	0.22 %	18.5	13
Potassium (K ₂ O)	0.22 %	18.5	17
Sulfur (S)	0.07 %	6.0	2
Calcium (Ca)	0.08 %	6.6	5
Magnesium (Mg)	0.07 %	6.1	4
Sodium (Na)	0.09 %	7.3	5
Copper (Cu)	24 ppm	0.20	0.14
Iron (Fe)	93 ppm	0.79	0.55
Manganese (Mn)	21 ppm	0.18	0.12
Zinc (Zn)	87 ppm	0.74	0.51
Moisture	96.6 %		
Total Solids	3.4 %	287.3	
Total Salts		62.7	
pH	6.8		

n.d. Non Detect

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Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered.

Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations!

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Bio-Solids Analysis for Account 1588

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Midwest

Report

Number:

09-265-5040

Reported to:

TRI OAK FOODS

211 N GEAR

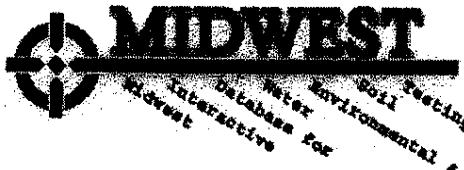
AVE

W BURLINGTON

IA, 52655

Sample ID:

SF 4 N



Date Reported: Sep 22, 2009

Date Received: Sep 17, 2009

MANURE ANALYSIS

Lab Number: 10025005

Project PO :

Bio-Solids Analysis Report

VIEW YOUR SUBMITTAL FORM

Parameters	Analysis	Nutrients	Est. First Year
	as Received	lbs/1000gals	Availability
Ammonium Nitrogen (N)	0.36 %	30.6	31
Organic Nitrogen (N)	0.13 %	10.8	4
Total Nitrogen (N)	0.49 %	41.4	34
Phosphorus (P ₂ O ₅)	0.17 %	14.3	10
Potassium (K ₂ O)	0.36 %	30.4	27
Sulfur (S)	0.10 %	8.6	3
Calcium (Ca)	0.06 %	5.3	4
Magnesium (Mg)	0.05 %	4.6	3
Sodium (Na)	0.13 %	11.2	8
Copper (Cu)	20 ppm	0.17	0.12
Iron (Fe)	54 ppm	0.46	0.32
Manganese (Mn)	15 ppm	0.13	0.09
Zinc (Zn)	55 ppm	0.46	0.33
Moisture	96.9 %		
Total Solids	3.1 %	261.9	
Total Salts		82.1	
pH	7.4		

n.d. Non Detect

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