



Litchfield Analytical Services

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Feeds Forages Mycotoxins Soils Plant Tissues Manure Fertilizers Lime Water

Sample Number: 7,394

Date Processed: 10/07/14

Sample Type: Dry Manure

Cust#: \$999

Grower ID:

Phone:

Sample ID:

Fax:

Hudsonville MI 49426

Email:

Attn:

Manure / Compost / Sludge Sample Laboratory Analysis Report

Lab Results	E180.3 Moisture H ₂ O %	E160.3 Solids DM %	E180.4 Organic Matter %	E353.2 Nitrate NO ₃ -N %	E350.1 Ammonia NH ₄ -N %	E351.2 Nitrogen Total N %	E6010 Phosphate P ₂ O ₅ %	E6010 Potassium K ₂ O %	E6010 Calcium Ca %	E6010 Magnesium Mg %	E6010 Sulfur S %	Carbon C %
Lab Results	E180.3 Moisture H ₂ O lbs	E160.3 Solids DM lbs	E160.4 Organic Matter lbs	E353.2 Nitrate NO ₃ -N lbs	E350.1 Ammonia NH ₄ -N lbs	E351.2 Nitrogen Total N lbs	E6010 Phosphate P ₂ O ₅ lbs	E6010 Potassium K ₂ O lbs	E6010 Calcium Ca lbs	E6010 Magnesium Mg lbs	E6010 Sulfur S lbs	Carbon C lbs
As Received Basis	18.81%	81.19%			0.05%	5.18%	4.73%	3.36%	3.56%	0.57%		
Dry Matter Basis	0.00%	100.00%			0.06%	6.38%	5.83%	4.14%	4.39%	0.70%		
Pounds Per Ton As Received	376	1,624			1.0	103.7	94.7	67.3	71.3	11.3		
Estimated 1st Year Available Nutrients* Pounds Per Ton As Received	376	1,624			1.0	26.7	94.7	50.4	53.5	8.5		
Lab Results	E6010 Aluminum Al ppm	E6010 Boron B ppm	SM4500 Chloride Cl %	E6010 Copper Cu ppm	E6010 Iron Fe ppm	E6010 Manganese Mn ppm	E6010 Sodium Na ppm	E6010 Zinc Zn ppm	E6010 Molybdenum Mo ppm	E160.4 AeH %	SM5210 BOD ppm	E160.2 Suspended Solids ppm
As Received Basis				52.8	902.5	300.7	3,719	323.2				
Dry Matter Basis				65.0	1,111.6	370.3	4,580	396.1				
Pounds Per Ton As Received				0.1	1.8	0.6	7.4	0.6				
Estimated 1st Year Available Nutrients* Pounds Per Ton As Received				0.1	1.4	0.5	5.6	0.5				
Lab Results	E6010 Arsenic As ppm	E6010 Barium Ba ppm	E6010 Cadmium Cd ppm	E6010 Chromium Cr ppm	E7471 Mercury Hg ppm	E6010 Nickel Ni ppm	E6010 Lead Pb ppm	E200.9 Selenium Se ppm	618.08 CaCO ₃ Equivalent %	E160.4 Volatile Solids TVS %	9215B Total Plate Count CFU / Gram	9213D Fecal Coliform CFU / Gram
As Received Basis												
Dry Matter Basis												
Pounds Per Ton As Received												
Estimated 1st Year Available Nutrients* Pounds Per Ton As Received												Reveal 2.0 Salmonella CFU / Gram

* No estimate of 1st year available nitrogen is calculated without an Ammonium Nitrogen (NH₄⁺) assay. Estimated 1st Year Availability is based on Tri-State Facility Recommendations, Midwest Plan Service, and Michigan Right to Farm guidelines. Actual 1st year nutrient availability, especially nitrogen, can vary greatly from estimates. 1st year nutrient availability is influenced by the type of manure, the presence or absence and type of bedding or litter, the application rate, the application method, field conditions at the time of application, and weather following the manure application. The most accurate determination of nitrogen availability can be made with a Pre-Sidedress Soil Nitrate test taken just prior to nitrogen sidedress applications.