

Report Number
F19101-6508
 Account Number
 99990



3505 Conestoga Dr.
 Fort Wayne, IN 46808
 260.483.4759
 a@greatlakes.com

To: **ABBY JOHNSON**
 2330 N ANGLE RD
 ROGERS CITY, MI 49779

Purchase Order: 101-6508
 Date Sampled: 4/7/2019
 Date Received: 4/11/2019
 Date Reported: 4/12/2019 Page: 3 of 5

Lab Number: 15737
 Sample ID: EAST 1
 Manure Type: BEEF, SOLID WITH BEDDING (5)

MANURE ANALYSIS

Analysis	Unit	Analysis Result (As Received)	Pounds Per Ton	First Year Availability @ Pounds Per Ton
Moisture	%	71.01	1420	
Solids	%	28.99	580	
Nitrogen, Total (TKN)	%	0.676	13.5	3.5*
Nitrogen, Ammonium (NH ₄ -N)	%	0.010	0.2	0.2*
Nitrogen, Organic (N)	%	0.666	13.3	3.3*
Phosphorus (P)	%	0.224	10.3 (as P ₂ O ₅)	10.3* (as P ₂ O ₅)
Potassium (K)	%	0.674	16.2 (as K ₂ O)	16.2* (as K ₂ O)

@ Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.
 * Source: MWPS-18, Livestock Waste Facilities Handbook, 1993 # Source: A3411, "Manure Nutrient Credit Worksheet", University of Wisconsin

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Lab Number: 15739
 Sample ID: CENTER 1
 Manure Type: BEEF, SOLID WITH BEDDING (5)

MANURE ANALYSIS

Analysis	Unit	Analysis Result (As Received)	Pounds Per Ton	First Year Availability [®] Pounds Per Ton
Moisture	%	72.20	1444	
Solids	%	27.80	556	
Nitrogen, Total (TKN)	%	0.705	14.1	4.0*
Nitrogen, Ammonium (NH ₄ -N)	%	0.030	0.6	0.6*
Nitrogen, Organic (N)	%	0.675	13.5	3.4*
Phosphorus (P)	%	0.259	11.9 (as P ₂ O ₅)	11.9* (as P ₂ O ₅)
Potassium (K)	%	0.609	14.6 (as K ₂ O)	14.6* (as K ₂ O)

[®] Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.
^{*} Source: MWPS-18, Livestock Waste Facilities Handbook, 1993 * Source: A3411, "Manure Nutrient Credit Worksheet", University of Wisconsin

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Lab Number: 15738
Sample ID: WEST 1
Manure Type: BEEF, SOLID WITH BEDDING (5)

MANURE ANALYSIS

Analysis	Unit	Analysis Result (As Received)	Pounds Per Ton	First Year Availability [@] Pounds Per Ton
Moisture	%	72.82	1456	
Solids	%	27.18	544	
Nitrogen, Total (TKN)	%	0.897	17.9	5.5*
Nitrogen, Ammonium (NH ₄ -N)	%	0.070	1.4	1.4*
Nitrogen, Organic (N)	%	0.827	16.5	4.1*
Phosphorus (P)	%	0.321	14.7 (as P ₂ O ₅)	14.7* (as P ₂ O ₅)
Potassium (K)	%	0.777	18.7 (as K ₂ O)	18.7* (as K ₂ O)

[@] Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.
* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993 # Source: A3411, "Manure Nutrient Credit Worksheet", University of Wisconsin