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Lab #	2455302	Report of Analysis		Report Number: 15-302-4133	
Account: 28674	MIKE WOLFE C AND C PEAT COMPANY 1650 CR 470 OKAHUMPKA FL 34762		 Robert Ferris Account Manager 402-829-9871		
Date Sampled: Date Received: Sample ID:	2015-10-15 2015-10-16 MONTHLY COMPOST SAMPLE				
			NUTRIENT ANALYSIS		
			Analysis (as rec'd)	Analysis (dry weight)	Total content, lbs per ton (as rec'd)
NUTRIENTS					
Nitrogen					
Total Nitrogen	%	0.59	1.62	11.8	
Organic Nitrogen	%	0.50	1.36	9.9	
Ammonium Nitrogen	%	0.095	0.261	1.9	
Nitrate Nitrogen	%	< 0.01	----	----	
Major and Secondary Nutrients					
Phosphorus	%	0.15	0.41	3.0	
Phosphorus as P2O5	%	0.34	0.93	6.8	
Potassium	%	0.29	0.80	5.8	
Potassium as K2O	%	0.35	0.96	7.0	
Sulfur	%	0.11	0.30	2.2	
Calcium	%	0.78	2.14	15.6	
Magnesium	%	0.06	0.16	1.2	
Sodium	%	0.050	0.137	1.0	
Micronutrients					
Iron	ppm	608	1669	1.2	
Manganese	ppm	26.8	74	----	
Boron	ppm	< 20	----	----	
OTHER PROPERTIES					
Moisture	%	63.58			
Total Solids	%	36.42		728.4	
Organic Matter	%	26.40	72.49	528.0	
Ash	%	10.10	27.73	202.0	
Total Carbon	%	13.46	36.96		
Chloride	%	0.08	0.22		
pH		8.7			
Conductivity 1:5 (Soluble Salts)	mS/cm	3.58			

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Lab #	2455302	Biological & Physical Properties	Report Number: 15-302-4133								
Account: 28674	MIKE WOLFE C AND C PEAT COMPANY 1650 CR 470 OKAHUMPKA FL 34762		 Robert Ferris Client Service Representative 402-829-9871								
Date Sampled:	2015-10-15		NUTRIENT ANALYSIS								
Date Received:	2015-10-16										
Sample ID:	MONTHLY COMPOST SAMPLE										
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">Analysis (as rec'd)</th> <th style="width: 10%;">Analysis (dry weight)</th> <th style="width: 10%;">Units</th> <th style="width: 10%;">Detection Limit</th> <th style="width: 10%;">Method</th> </tr> </thead> </table>							Analysis (as rec'd)	Analysis (dry weight)	Units	Detection Limit	Method
	Analysis (as rec'd)	Analysis (dry weight)	Units	Detection Limit	Method						
Biological Properties											
5 Day Germination											
	92		%	1	TMECC 05.05A						
7 Day Vigor											
	100		%	1	TMECC 05.05A						
CO ₂ OM Evolution											
	0.26		mgCO ₂ -C/gOM/day	0.01	TMECC 05.08B						
CO ₂ Solids Evolution											
	0.71		mgCO ₂ -C/gTS/day	0.01	TMECC 05.08B						
Fecal Coliform											
		< 2	mpn/g	2	EPA 1681						
Salmonella											
		< 0.01	mpn/4g	0.01	EPA 1682						
Stability Rating											
	Stable		N/A	N/A	TMECC 05.08B						
Physical Properties											
Bulk Density (Loose)											
	859		lbs/cu yard	1	WT/VOL						
Bulk Density (Packed)											
	1365		lbs/cu yard	1	WT/VOL						
Film Plastics											
	n.d.		%	0.25	Microscopic						
Glass Fragments											
	n.d.		%	0.25	Microscopic						
Hard Plastics											
	n.d.		%	0.25	Microscopic						
Metal Fragment											
	n.d.		%	0.25	Microscopic						
Sharps											
	absent		---	---	Microscopic						
Max. Particle Length											
		1.8	inches	N/A	TMECC Sieve						
Sieve % Passing 3"											
		100	%	0.01	TMECC Sieve						
Sieve % Passing 2"											
		100	%	0.01	TMECC Sieve						
Sieve % Passing 1.5"											
		100	%	0.01	TMECC Sieve						
Sieve % Passing 1"											
		100	%	0.01	TMECC Sieve						
Sieve % Passing 3/4"											
		100	%	0.01	TMECC Sieve						
Sieve % Passing 5/8"											
		97	%	0.01	TMECC Sieve						
Sieve % Passing 3/8"											
		90	%	0.01	TMECC Sieve						
Sieve % Passing 1/4"											
		74	%	0.01	TMECC Sieve						

Compost Results Interpretations

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Organic Matter %

26.40 As Received

72.49 Dry Weight

Greater than 20% indicates a desirable range for compost on a dry weight basis.

Compost is a significant source of Organic Matter, which is an important supplier of carbon. Organic Matter improves soil and plant efficiency by improving soil physical properties, providing a source of energy to beneficial organisms, and enhancing the reservoir of soil nutrients.

C/N Ratio

22.8:1

20-30 indicates an ideal range for the initial compost process.

10-20 indicates an ideal range for a finished compost.

All organic matter is made up of substantial amounts of carbon with lesser amounts of nitrogen. The balance of these two elements is called the Carbon/Nitrogen Ratio. For the best performance, the compost pile requires the correct proportion of carbon for energy and nitrogen for protein production. If the C:N ratio is too high (excess carbon) decomposition slows down. If the C:N ratio is too low (excess Nitrogen) the compost pile could be difficult to manage.

Moisture %

63.58

<35% = Indicates overly dry compost

>55% = Indicates overly wet compost

Moisture Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture present affects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A desirable moisture content of finished compost will range between 40 to 50%.

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Conductivity or Soluble Salts measures the conductance of electrical current in a liquid compost slurry. Excessive soluble salt content in a compost can prevent or delay seed germination and proper root growth. Conductivity analysis is done on a 1:5 basis.

Conductivity 1:5	
3.6	
Conductivity Level	Interpretation
Greater than 10	Very High nutrient content. Use for Ag Applications
5 - 10	High nutrient content. Use for Ag Applications
3 - 5	Higher than desirable for salt sensitive plants, some loss of vigor
0.6 - 3	Desirable range for most plants
0.3 - 0.6	Ideal range for greenhouse growth media
0.0 - 0.3	Very Low: Indicates very low nutrient status: plants may show deficiencies.

Compost Results Interpretations

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pH Value

8.7

0 to 14 scale with 6 to 8 as normal pH levels for compost

A pH in the 6 to 8 pH range indicates a more mature compost

pH measures the acidity or alkalinity of the compost, and is a measurement of the hydrogen ion activity of a soil or compost on a logarithmic scale. The pH scale ranges from 0 to 14 and 7 indicates a neutral pH. Growing media with a higher pH or pH greater than 7 can benefit from a compost that has a more acidic pH or pH below 7. This type of application will possibly lower the soil pH making the soil more conducive to plants that thrive in a more acidic soil condition.

Nutrient Index (Ag Index)

9.8

The Nutrient Index normally runs between 1 and 10.

The Nutrient Index is obtained by dividing the total nutrients (N,P,K) by the amount of salt (Sodium and Chloride). The higher the Nutrient Index the less chance of having a toxic buildup of Sodium (salt) in the soil.

AG INDEX CHART										
<i>salt injury possible</i>	<i>use on soils with excellent drainage characteristics, good water quality and low salts</i>				<i>you may use on soils with poor drainage, poor water quality, or high salts</i>				<i>for all soils</i>	
1	2	3	4	5	6	7	8	9	10	> 10

Nutrients (N+P205+K20)

3.51

Average Nutrient Content Dry Weight

<2 = Low, >5 = High

0.5-0.5-0.5

Rating As Received

The most commonly used compost data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present and the information is similar to that found in common fertilizers. If a compost result has the rating 1-2-2 it means that the compost has 1% Nitrogen, 2% Phosphate and 2% Potash. Most compost tests will have a average nutrient level (N+P+K) of < 5%.

**C AND C PEAT COMPANY
MIKE WOLFE
1650 CR 470
OKAHUMPKA FL 34762**

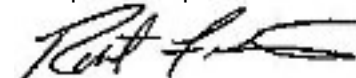
REPORT OF ANALYSIS

For: (28674) C AND C PEAT COMPANY
NUTRIENT ANALYSIS

Analysis	Level Found		Reporting			Analyst- Date	Verified- Date
	As Received	Dry Weight	Units	Limit	Method		
Sample ID: MONTHLY COMPOST SAMPLE	Lab Number: 2455302		Date Sampled: 2015-10-15 14:45				
Cadmium (total)	n.d.	n.d.	mg/kg	0.50	EPA 6010 *	trh1-2015/10/20	bab2-2015/10/21
Chromium (total)	3.39	9.31	mg/kg	1.00	EPA 6010 *	trh1-2015/10/20	bab2-2015/10/21
Mercury (total)	n.d.	n.d.	mg/kg	0.05	EPA 7471 *	ccm2-2015/10/20	bab2-2015/10/21
Lead (total)	n.d.	n.d.	mg/kg	5.0	EPA 6010 *	trh1-2015/10/20	bab2-2015/10/21
Molybdenum (total)	n.d.	n.d.	mg/kg	1.0	EPA 6010 *	trh1-2015/10/20	bab2-2015/10/21
Nickel (total)	3.2	8.8	mg/kg	1.0	EPA 6010 *	trh1-2015/10/20	bab2-2015/10/21
Selenium (total)	n.d.	n.d.	mg/kg	10.0	EPA 6010 *	trh1-2015/10/20	bab2-2015/10/21
Zinc (total)	46.6	128.0	mg/kg	2.0	EPA 6010 *	trh1-2015/10/20	bab2-2015/10/21
Copper (total)	26.6	73.0	mg/kg	1	EPA 6010 *	trh1-2015/10/20	bab2-2015/10/21
Arsenic (total)	n.d.	n.d.	mg/kg	0.5	EPA 6020	akj2-2015/10/20	bab2-2015/10/21

n.d. = not detected , ppm = parts per million, ppm = mg/kg

For questions please contact:



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The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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