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Lab # 7042	24441	Report of Analysis			Report Number: 24-064-4001			
A	ccount:	COMPOST TECHNOLOGIES LLC						
	43761	COMPOST TECH	OST TECHNOLOGIES LLC			0_		
		48414 COUNTY	RD B		Koht Fes			
		CENTER CO 811			, Rob	ert Ferris		
					Accou	nt Manager		
Date Sa	ampled:	2024-02-23			402-	829-9871		
	ceived:	2024-02-27			COMPOST ANALYSIS			
Sar	nple ID:	COMPOST LINE	S 7,8					
						Total content,		
				Analysis	Analysis	lbs per ton		
				(as rec'd)	(dry weight)	(as rec'd)		
	S			. ,				
Nitro	ogen							
	Total Nitroge	n	%	1.67	1.77	33.4		
	Organic Nitro		%	1.46	1.55	29.3		
	Ammonium N	•	%	0.207	0.219	4.1		
	Nitrate Nitrog	•	%	< 0.01				
Maio	or and Secor	ndary Nutrients						
	Phosphorus	, ,	%	0.69	0.73	13.8		
	Phosphorus a	as P2O5	%	1.58	1.67	31.6		
	Potassium		%	1.99	2.11	39.8		
	Potassium as	s K2O	%	2.40	2.54	48.0		
	Sulfur		%	1.08	1.14	21.6		
	Calcium			4.62	4.89	92.4		
Magnesium			%	0.99	1.05	19.8		
	Sodium		%	0.600	0.636	12.0		
	oodaan		,,,	0.000	0.000	12.0		
Micr	onutrients							
	Zinc		ppm	244	258	0.5		
	ron		ppm	20800	22034	41.6		
	Vanganese		ppm	528	559	1.1		
	Copper		ppm	49.6	53			
	Boron		ppm	< 100				
			PP.''	100				
OTHER PR	OPERTIES							
	Moisture		%	5.60				
	Total Solids		%	94.40		1888.0		
	Organic N	latter	%	31.70	33.58	634.0		
	Ash		%	62.20	65.89	1244.0		
(C:N Ratio			8:1				
	Total Carbon		%	12.88	13.64			
	Chloride		%	0.76	0.81			
	oH		/0	7.7	0.01			
-		1:5 (Soluble Salts)	mS/cm	8.91				
	Sonductivity		113/011	0.91				

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Compost Results Interpretations Page 1

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Organic Matter % 31.70 As Received 33.58 Dry Weight	Greater than 20% indicates a desirable range for compost on a dry weight basis.
improves soil and pl	is a significant source of Organic Matter, which is an important supplier of carbon. Organic Matter ant efficiency by improving soil physical properties, providing a source of energy to beneficial ancing the reservoir of soil nutrients.

C/N Ratio 7.7:1

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 %		
5.60	<35% = Indicates overly dry compost	
	>55% = Indicates overly wet compost	
present aff	Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture fects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A moisture content of finished compost will range between 40 to 50%.	

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Compost Results Interpretations	Report #:	24-064-4001
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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 8.9					
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.				

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Compost Results Interpretations Page 3	Report #: DATE RECEIVED:	24-064-4001 2024-02-27					
pH Value 0 to 14 scale with 6 to 8 as nor	mal pH levels for compost						
	nge 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	s a neutral pH. Growing media with a higher pH	or pH					
greater than 7 can benefit from a compost that has a more acidic pl	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 thriv	e in a more acidic soil condition.						

Nutrient Index 4.2	()			The Nutrie	nt Index nor	mally 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										
	salt use on soils with excellent drainage characteristics, injury good water quality and low salts possible			you may use on soils with poor drainage, poor water quality, or high salts				for all soils			
				4	5	6	7	•	9	10	> 10

Nutrients (N+	P205+K20)
	Average Nutrient Content Dry Weight<2 = Low, >5 = HighRating 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%.

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