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Lab # 70425813		Report of Analysis		Report Number:	
Account: 43761		COMPOST TECHNOLOGIES LLC COMPOST TECHNOLOGIES LLC 48414 COUNTY RD B CENTER CO 81125		 Robert Ferris Account Manager 402-829-9871	
Date Sampled: Date Received: Sample ID:		2024-02-22 2024-02-28 ALL CHICKEN LINES			
				Total content, lbs per ton (as rec'd)	
		Analysis (as rec'd)		Analysis (dry weight)	
NUTRIENTS					
Nitrogen					
Total Nitrogen	%	1.89	2.27	37.8	
Organic Nitrogen	%	1.11	1.32	22.1	
Ammonium Nitrogen	%	0.785	0.941	15.7	
Nitrate Nitrogen	%	< 0.01	----	----	
Major and Secondary Nutrients					
Phosphorus	%	0.93	1.11	18.6	
Phosphorus as P2O5	%	2.13	2.55	42.6	
Potassium	%	1.88	2.25	37.6	
Potassium as K2O	%	2.26	2.71	45.2	
Sulfur	%	0.80	0.96	16.0	
Calcium	%	4.11	4.93	82.2	
Magnesium	%	0.66	0.79	13.2	
Sodium	%	0.480	0.575	9.6	
Micronutrients					
Iron	ppm	8590	10296	17.2	
Manganese	ppm	406	487	0.8	
Boron	ppm	< 100	----	----	
OTHER PROPERTIES					
Moisture	%	16.57			
Total Solids	%	83.43		1668.6	
Organic Matter	%	41.90	50.22	838.0	
Ash	%	40.70	48.78	814.0	
Total Carbon	%	19.04	22.82		
Chloride	%	0.67	0.80		
pH		7.7			
Conductivity 1:5 (Soluble Salts)	mS/cm	12.2			

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Compost Results Interpretations
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Organic Matter %

41.90 As Received
50.22 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

10.1:1

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 %

16.57

<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%.

Compost Results Interpretations
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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 12.2	
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

7.7

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)

5.5

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

Nutrients (N+P2O5+K2O)

7.53

Average Nutrient Content Dry Weight

2-2-2.5

Rating As Received

<2 = Low, >5 = High

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 an average nutrient level (N+P+K) of < 5%.



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COMPOST TECHNOLOGIES LLC
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48414 COUNTY RD B
CENTER CO 81125

REPORT OF ANALYSIS
For: (43761) COMPOST TECHNOLOGIES LLC
COMPOST

Analysis	Level Found		Units	Reporting		Method	Analyst- Date	Verified- Date
	As Received	Dry Weight		Limit				

Sample ID: **ALL CHICKEN LINES** Lab Number: **70425813** Date Sampled: **2024-02-22 1400**

Cadmium (total)	< 0.50	0.54	mg/kg	0.50	EPA 6010	erw9-2024/03/07	th1-2024/03/08
Chromium (total)	11.2	13.4	mg/kg	1.00	EPA 6010	erw9-2024/03/04	th1-2024/03/08
Mercury (total)	< 0.05	< 0.05	mg/kg	0.05	EPA 7471	Mab7-2024/03/06	th1-2024/03/08
Lead (total)	5.2	6.2	mg/kg	5.0	EPA 6010	erw9-2024/03/04	th1-2024/03/08
Molybdenum (total)	3.8	4.5	mg/kg	1.0	EPA 6010	erw9-2024/03/04	th1-2024/03/08
Nickel (total)	8.7	10.4	mg/kg	1.0	EPA 6010	erw9-2024/03/04	th1-2024/03/08
Selenium (total)	< 10.0	< 10.0	mg/kg	10.0	EPA 6010	erw9-2024/03/04	th1-2024/03/08
Zinc (total)	240.9	288.8	mg/kg	2.0	EPA 6010	erw9-2024/03/04	th1-2024/03/08
Copper (total)	41.3	49.5	mg/kg	1	EPA 6010	erw9-2024/03/07	th1-2024/03/08
Arsenic (total)	8.43	10.1	mg/kg	0.5	EPA 6020	nto7-2024/03/05	th1-2024/03/08
Cobalt (total)	2.49	2.98	mg/kg	1.00	EPA 6010	erw9-2024/03/07	th1-2024/03/08
E. coli (generic)	460		MPN/g	3.0	FDA BAM Chapter 4	Jhv0-2024/03/01	sn17-2024/03/01
Listeria	negative		org/25g	1	RapidChek/AOAC RI 020401	Kkb0-2024/03/01	sn17-2024/03/01

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

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Partial

REPORT DATE

SEND TO
43761

RECEIVED DATE
Feb 28, 2024



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ISSUE DATE
Mar 12, 2024

**COMPOST TECHNOLOGIES LLC
COMPOST TECHNOLOGIES LLC
48414 COUNTY RD B
CENTER CO 81125**

REPORT OF ANALYSIS
For: (43761) COMPOST TECHNOLOGIES LLC
COMPOST

Analysis	Level Found		Reporting		Method	Analyst- Date	Verified- Date
	As Received	Dry Weight	Units	Limit			

Sample(s) was prepared for EPA 6010 analysis by EPA 3050b.

EPA 1681 holding time of < 24 hours from sampling to laboratory set up of samples for biosolids and compost has been exceeded. Individual states enforce different holding times for compost or biosolids so please contact the regulatory body in your state for their requirements.

This is a partial report. Results are preliminary and may not have been properly reviewed.

*** = Analysis in Progress. MPN = most probable number , ppm = parts per million, ppm = mg/kg, ppm = mg/L

For questions please contact:


 Rob Ferris
 Account Manager
 rferris@midwestlabs.com (402)829-9871

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