

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 • www.midwestlabs.com

Lab #	70417208	Repor	t of Analys	is	Report Num	ber: 24-047-4081
	Account:	COMPOST TECH	INOLOGIES	LLC		
	43761	COMPOST TECH	INOLOGIES	LLC	1 1+	0_
		48414 COUNTY F	RD B		1 Kom	Fes
		CENTER CO 811	25		Rob	ert Ferris
					Accour	nt Manager
D	ate Sampled:	2024-02-08			-	829-9871
	ate Received:	2024-02-12			COMPOST	
	Sample ID:	COMPOST LINES	S 3, 4			
	•		-		1	Total content,
				Analysis	Analysis	lbs per ton
				(as rec'd)	(dry weight)	(as rec'd)
NUTR				()	(*) - 5 - 7	()
	Nitrogen					
	Total Nitroge	n	%	1.04	1.37	20.8
	Organic Nitro		%	0.85	1.12	17.0
	Ammonium N	•	%	0.190	0.250	3.8
	Nitrate Nitrog	-	%	< 0.01		
	Major and Secor	ndary Nutrients				
	Phosphorus		%	0.50	0.66	10.0
	Phosphorus	as P205	%	1.14	1.50	22.8
	Potassium		%	1.54	2.03	30.8
	Potassium as	s K2O	%	1.85	2.43	37.0
	Sulfur		%	1.08	1.42	21.6
	Calcium		%	3.90	5.13	78.0
	Magnesium		%	0.78	1.03	15.6
	Sodium		%	0.410	0.539	8.2
	Codidin		70	0.410	0.000	0.2
	Micronutrients					
	Zinc		ppm	184	242	0.4
	Iron		ppm	20600	27105	41.2
	Manganese		ppm	479	630	1.0
	Copper			37.7	50	
	Boron		ppm ppm	< 100		
	Boron		Phil	100		
						]
	Moisture		%	24.00		
	Total Solids		%	76.00		1520.0
	Organic N	latter	%	20.30	26.71	406.0
	Ash		%	55.50	73.03	1110.0
	C:N Ratio		70	9:1	10.00	1110.0
	Total Carbon		%	9.1	11.93	
	Chloride		%	0.53	0.70	
	pH		/0	8.0	0.70	
	•	1.5 (Soluble Solte)	mS/cm			
	Conductivity	1:5 (Soluble Salts)	m5/cm	5.74		

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.



13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 www.midwestlabs.com

**Compost Results Interpretations** Page 1

Report #: DATE RECEIVED: 24-047-4081 2024-02-12

**PAGE 2/4** 

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

C/N Ratio 8.7:1

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.

ĺ	Moisture %		
	24.00	<35% = Indicates overly dry compost	
		>55% = Indicates overly wet compost	
	present affect	cent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture ts handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A sture content of finished compost will range between 40 to 50%.	

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.



**PAGE 3/4** 

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 www.midwestlabs.com

Compost Results Interpretations	Report #:	24-047-4081
Page 2	DATE RECEIVED:	2024-02-12

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 5.7	
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.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.



**PAGE 4/4** 

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 www.midwestlabs.com

Compost Results Interpretations Page 3	Report #: DATE RECEIVED:	24-047-4081 2024-02-12						
pH Value 8.0 0 to 14 scale with 6 to 8 as no	rmal nH 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	e 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 p	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 three	ve in a more acidic soil condition.							

Nutrient Index 4.3	( )			The Nutrie	ent 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	2	з	4	5	6	7	8	9	10	> 10

Nutrients (N+	(N+P205+K20)	
5.30 1-1-2		
	The most commonly used compost data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as I and the information is similar to that found in common fertilizers. If a compost result has the rating 1-2-2 it means that 1% Nitrogen, 2% Phosphate and 2% Potash. Most compost tests will have a average nutrient level (N+P+K) of < 5%.	

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.