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Lab # 70504151	Repor	t of Analys	is	Report Numb	er: 24-228-4056
Account: 75347	10957 Hwy 64 Arlington TN 3800	Nature's Earth	L.		Ferris ert Ferris et Manager
Date Sampled:	2024-07-31			402-8	29-9871
Date Received:	2024-08-01			Leaf Compost	
Sample ID:	Leaf Compost				
			Analysis (as rec'd)	Analysis (dry weight)	Total content, Ibs per ton (as rec'd)
NUTRIENTS					
Nitrogen					
Total Nitroge	en	%	0.55	1.11	11.0
Organic Nitr	ogen	%	0.55	1.11	11.0
Ammonium	Nitrogen	%	0.002	0.004	
Nitrate Nitro	gen	%	< 0.01		
Major and Seco Phosphorus	-	%	0.07	0.14	1.4
Phosphorus		%	0.07	0.32	3.2
Prosphorus Potassium	as P205	%	0.18	0.38	3.8
Potassium a	~ K20	%	0.19	0.46	4.6
Sulfur	15 N2U	%	0.25	0.40	1.2
Calcium		%	1.80	3.63	36.0
Magnesium		%	0.23	0.46	4.6
Sodium		%	0.030	0.061	0.6
Sociality		70	0.000	0.001	0.0
Micronutrients					
Iron		ppm	5300	10690	10.6
Manganese		ppm	1240	2501	2.5
Boron		ppm	< 100		
OTHER PROPERTIES					r
Moisture		%	50.42		
Total Solids		%	49.58		991.6
Organic		%	29.60	59.70	592.0
Ash		%	19.40	39.13	388.0
Total Carbo	n	%	14.74	29.73	
Chloride		%	< 0.01		
pH		2.7.0	7.4		
	1:5 (Soluble Salts)	mS/cm	0.51		



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ab # 70504151	Bio	ological & Pl	nysical Pro	operties	Report Num	ber: 24-228-4056
Account: 75347	1005	711 04			Tat	For
		7 Hwy 64			, Del	and Famile
	Ariing	ton TN 38002				pert Ferris
Date Sampled:	2024	07-31				ce Representative -829-9871
Date Received:		-07-51			Leaf Compost	-029-9071
Sample ID:	Contraction of the	Compost			Lear Composi	
oumpic ib.	Lear	Analysis	Analysis			
		(as rec'd)	(dry weight)	Units	Detection Limit	Method
<b>Biological Properties</b>		(as iecu)	(ury weight)	Units	Detection Limit	Metriod
Germination		100		%	1	TMECC 05.05A
Germination Vigo	r	100		%	1	TMECC 05.05A
CO <sub>2</sub> OM Evolution		0.39		mgCO2-C/gOI	-	TMECC 05.08B
CO <sub>2</sub> Solids Evolution		1		mgCO2-C/gTS	and a second	TMECC 05.08B
Fecal Coliform			5	mpn/g	0.2	EPA 1681
Salmonella			< 1.2	mpn/4g	1.2	TMECC 07.02
Stability Rating		Stable		N/A	N/A	TMECC 05.08B
Physical Properties						
Bulk Density (Loc	se)	843		lbs/cu yard	1	WT/VOL
Bulk Density (Pad	ked)	1196		lbs/cu yard	1	WT/VOL
Film Plastics		n.d.		%	0.1	TMECC 03.08
Glass Fragments		n.d.		%	0.1	TMECC 03.08
Hard Plastics		n.d.		%	0.1	TMECC 03.08
Metal Fragment		n.d.		%	0.1	TMECC 03.08
Sharps		absent		(1 <del>997)</del>	0.1	TMECC 03.08
Max. Particle Len	and the state of the		1.5	inches	N/A	TMECC Sieve
Sieve % Passing			100	%	0.01	TMECC Sieve
Sieve % Passing			100	%	0.01	TMECC Sieve
Sieve % Passing			100	%	0.01	TMECC Sieve
			100	%	0.01	TMECC Sieve
Sieve % Passing	2/4"		100	%	0.01	TMECC Sieve
Sieve % Passing Sieve % Passing						
Sieve % Passing Sieve % Passing Sieve % Passing	5/8"		100	%	0.01	TMECC Sieve
Sieve % Passing Sieve % Passing	5/8" 3/8"		100 97 89	% % %	0.01 0.01 0.01	TMECC Sieve TMECC Sieve TMECC Sieve

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Compost Results Interpretations		Report #:	24-228-4056
Page 1		DATE RECEIVED:	2024-08-01
Organic Matter %			
29.60 As Received	Greater than 20% indica	ates a desirable range for compos	st on a dry weight basis
59.70 Dry Weight			
Compost is a s	significant source of Organic Matt	or which is an important supplior	of carbon Organic M
	afficiency by improving soil physic		

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	
	26.8:1	

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 % 50.42	<35% = Indicates overly dry compost
	>55% = Indicates overly wet compost
present affect	rcent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture cts handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A pisture content of finished compost will range between 40 to 50%.

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Compost Results Interpretations	Report #:	24-228-4056
Page 2	DATE RECEIVED:	2024-08-01

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	
0.5	
Conductivity Le	vel Interpretation
Greater than 10	0 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 #:         24-228-4056           DATE RECEIVED:         2024-08-01
pH Value	
7.4 0 to 14 scale with 6 to 8 as n	ormal 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	he hydrogen ion activity of a soil or compost on a
logarithmic scale. The pH scale ranges from 0 to 14 and 7 indica	tes 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 the	rive in a more acidic soil condition.

Nutrient Index >1	,			The Nutrie	nt Index nor	mally runs I	between 1 a	and 10.			
The Nutrient		,	0		(N,P,K) by up of Sodium			dium and C	hloride). Th	ne higher th	ne Nutrient
			<u> </u>			INDEX CHA					
	salt injury possible			t drainage cha lity and low sa		you i		ils with poor d ality, or high s		water	for all soils
						6	_	8	9	10	> 10

Nutrients (N	+P205+K20)	
1.90	Average Nutrient Content Dry Weight	<2 = Low, >5 = High
0.5-0-0	Rating As Received	
	and the information is similar to that found in c	data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present common fertilizers. If a compost result has the rating 1-2-2 it means that the compost has Most compost tests will have a average nutrient level (N+P+K) of < 5%.





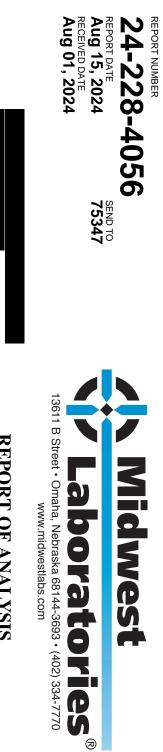




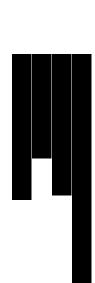
REPORT OF ANALYSIS For: (75347) Marek LLC DBA Nature's Earth Leaf Compost

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	Level Found	ound		Reporting		Analyst-	Verified-
Analysis	As Received Dry Weight	Dry Weight	Units	Limit	Method	Date	Date
Sample ID: Leaf Compost	Lab Number: 70504151	Date Sampled: 2024-07-31	led: 2024-0	7-31			
Cadmium (total)	< 0.50	0.83	mg/kg	0.50	EPA 6010	erw9-2024/08/02	ras7-2024/08/12
Chromium (total)	37.3	75.3	mg/kg	1.00	EPA 6010	erw9-2024/08/02 ras7-2024/08/12	ras7-2024/08/12
Mercury (total)	< 0.05	< 0.05	mg/kg	0.05	EPA 7471	nto7-2024/08/12	ras7-2024/08/12
Lead (total)	< 5.0	5.8	mg/kg	5.0	EPA 6010	erw9-2024/08/02	ras7-2024/08/12
Molybdenum (total)	1.0	2.1	mg/kg	1.0	EPA 6010	erw9-2024/08/02 ras7-2024/08/12	ras7-2024/08/12
Nickel (total)	5.9	11.9	mg/kg	1.0	EPA 6010	erw9-2024/08/02	ras7-2024/08/12
Selenium (total)	< 10.0	< 10.0	mg/kg	10.0	EPA 6010	erw9-2024/08/02 ras7-2024/08/12	ras7-2024/08/12
Zinc (total)	38.1	76.8	mg/kg	2.0	EPA 6010	erw9-2024/08/02	ras7-2024/08/12
Copper (total)	12.8	25.9	mg/kg	-	EPA 6010	erw9-2024/08/02 ras7-2024/08/12	ras7-2024/08/12
Arsenic (total)	2.90	5.86	mg/kg	0.5	EPA 6020	nto7-2024/08/07	ras7-2024/08/12
Cobalt (total)	1.56	3.15	mg/kg	1.00	EPA 6010	erw9-2024/08/02 ras7-2024/08/12	ras7-2024/08/12







**REPORT OF ANALYSIS** For: (75347) Marek LLC DBA Nature's Earth

Leaf Compost

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

ppm = parts per million, ppm = mg/kg, ppm = mg/L

For questions please contact:

Rob Ferris

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