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SEAL of TESTING ASSURANCE SUITE

 $STA\ Compost\ Analysis\ Report\ and\ Results$

Client No: 1099 Lab No: 75134

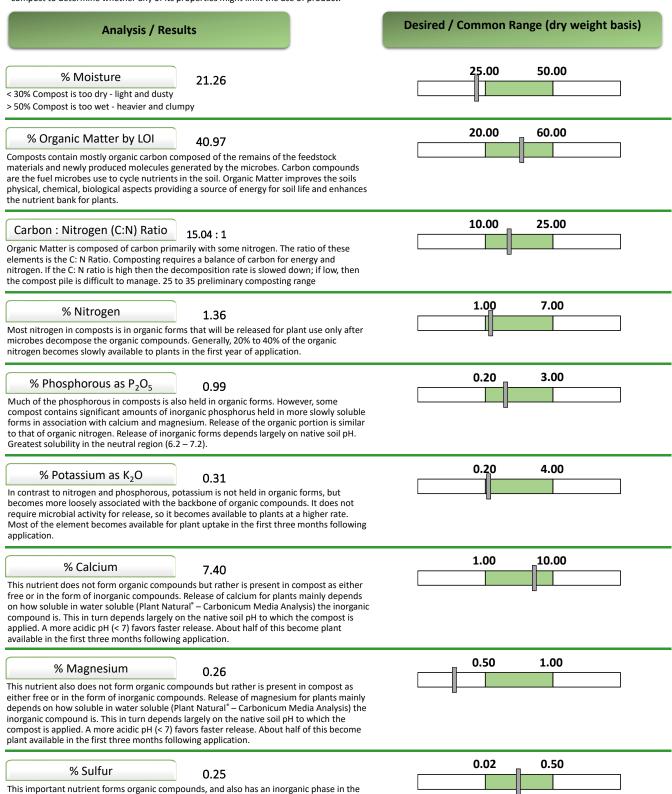
Southwaste Disposal 20805 Lamm Road Elmendorf, Texas 78112-Ben Camacho Sample ID: Row 4
Date Sampled: October 30, 2024
Date Received: November 1, 2024
Date Reported: November 12, 2024

					Email:	bcamacho@wrmco.
Analysis	Unit	As Sent	Dry Weight	lbs/ton as sent		Analysis Method
Moisture @ 70 C	%	21.26	####	51		TMECC 03.09A
Dry Matter	%	78.74	####			TMECC 03.09A
Organic Matter by LOI @ 360C	%	32.26	40.97	645		TMECC 05.07-A
Organic Carbon by LOI @ 360C	%	16.13	20.49	323		
Carbon:Nitrogen (C:N) Ratio		15.04 : 1	15.04 : 1			
Soluble Salts	dS/m	1.66				TMECC 04.10-A
pH	Std Unit	7.43				TMECC 04.11-A
Total Nutrients						
Nitrogen (N)	%	1.07	1.36	21.45		TMECC 04.02-A
Nitrate-Nitrogen (ppm NO ₃ -N)	ppm	0.18	0.23	0.00		
Ammonium-Nitrogen (NH ₄ -N)	ppm	56.87	72.22	0.11		
Phosphorous (P)	%	0.34	0.43	6.81		TMECC 04.12-B
Phosphate as P ₂ O ₅	%	0.78	0.99	15.60		
Potassium (K)	%	0.20	0.25	4.00		TMECC 04.12-B
Potash as K ₂ O	%	0.24	0.31	4.82		
Sodium (Na)	%	0.18	0.22	3.52		TMECC 04.12-B
Calcium (Ca)	%	5.83	7.40	116.60		TMECC 04.12-B
Magnesium (Mg)	%	0.20	0.26	4.08		TMECC 04.12-B
Zinc (Zn)	ppm	115.60	146.81	0.23		TMECC 04.12-B
Iron (Fe)	ppm	2952.17	3749.31	5.90		TMECC 04.12-B
Manganese (Mn)	ppm	67.48	85.70	0.13		TMECC 04.12-B
Copper (Cu)	ppm	44.00	55.89	0.09		TMECC 04.12-B
Boron (B)	ppm	13.94	17.70	0.03		TMECC 04.12-B
Chlorides (CI)	ppm	75.12	95.40	0.15		
Sulfur (S)	ppm	1946.86	2472.54	3.89		TMECC 04.12-B
Trace Metals					.A. Limit*	
Arsenic	mg/kg	2.42	3.07	Pass	41	SW846-6010B 04.06-As
Cadmium	mg/kg	< 0.50	< 0.50	Pass	39	SW846-6010B 04.06-Cd
Zinc	mg/kg	115.60	146.81	Pass	2800	SW846-7470 04.06-Zn
Copper	mg/kg	44.00	55.89	Pass	1500	SW846-6010B 04.06-Cu
Mercury	mg/kg	< 0.50	< 0.50	Pass	17	SW846-7471 04.06-Hg
Molybdenum	mg/kg	0.99	1.26	Pass	75	SW846-6010B 04.06-Mo
Nickel	mg/kg	< 0.05	< 0.05	Pass	420	SW846-6010B 04.06-Ni
Lead	mg/kg	6.44	8.18	Pass	300	SW846-6010B 04.06-Pb
Selenium	mg/kg	< 1.00	< 1.00	Pass	36	SW846-6010B 04.06-Se
Chromium	mg/kg	15.90	20.20	Pass	1200	SW846-6010B 04.06-Cr
Stability Indicator -		,,,,,,		Pathogens	1=00	Analysis Metho
Solvita Maturity Index -			Total Coliform (MI		320 I	
Stability Rating			Fecal Coliform (M			Pass TMECC 07.01-B
Sieve - TMECC 02.02-B			Stability Indicator - TMECC 05.08-B			
% Passing 3/8 in.	10	0	CO2 OM Evolutio	n - mg CO2-C/g OM/day		0.50
% Passing 5/8 in.	10			tion - mg CO2-C/g TS/da		0.82 Very Stable
Inerts - TMEC	CC 03.06-A			ity Indicator: Cucumbe		
% Plastic	0.0	0	Emergence - Avg.	_		100.00
% Glass	0.0	0		Vigor - Avg. % of Contro	ol	100.00
% Metals	0.0	0	Plant Description	J J		Very Healthy

*per US EPA Class A Standard, 40 CFR § 503.13, Tables 1 and 3.

Understanding Compost Test Results Suitability of Use

Composts are complex mixtures of feedstocks that have been decomposed by microbes. Composts have several biological, chemical, and physical properties that may be beneficial for growing plants and improving soil, but some properties may limit use. Accordingly, a range of tests have been performed on your compost to determine whether any of its properties might limit the use of product.



soil. This means that some is readily available, and some is released over time, as is the case

for nitrogen and phosphorous.

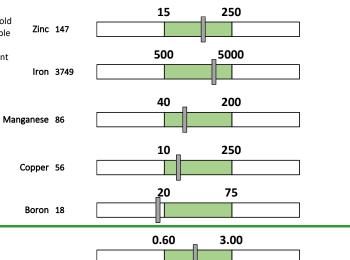
Analysis / Results

Desired / Common Range (dry weight basis)

- for finished compost

Trace Elements - ppm

Arsenic, cadmium, mercury, lead, selenium and others have a maximum threshold level (printed on the report) which, if exceeded, will render the compost unusable for food crops. Composts can be a good source of trace elements for plants because the organics in composts aid in keeping nutrients in a soluble form, plant available form.



Soluble Salts - Conductivity 1:5

1.66

Some feedstocks contain an appreciable concentration of salts and these can increase as the volume of the pile decreases during composting. Usually, if the salts are high, they leach away over time. However, until the salts leach away, they may adversely affect plant growth. A reading of \leq 5 dS/m suggests compost salinity should have only a marginal affect on plants.

Common Range *depending on end-use* – Refer to table below for optimum use.

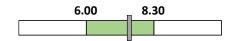
Interpretation

< 0.30	Very low nutrient content. Expect nutrient deficiencies.
0.30 - 0.60	Ideal as direct growing media
0.60 - 3.00	Desirable range for most plant
3.00 - 5.00	High for salt sensitive plants, some loss of vigor to be expected
5.00 - 10.00	High nutrient content. Topdressing & incorporation only.
>10.00	Extremely high nutrient content. Topdressing & incorporation only.

рН

7.43

A measure of acidity is used to predict whether the compost might have an affect on native soil pH. Changes in soil pH can affect the solubility of nutrients. Composts greater than 7.0 probably contains liming agents which may affect crop management over time.



Agricultural Index

11.40

Calculation based on total N, P, K versus the quantity of soluble salts mainly sodium and chloride. The higher the Ag Index the less change of having toxic buildup of salts in the soil

- < 2: Salt injury is a possibility although high levels of calcium and magnesium may help offset salt toxicity.</p>
- 2-5: Adequate for application on soils with good to excellent soil tilth (structure), good irrigation water quality and low native salt content.
- 6-10: Adequate for application on soils with poor soil tilth (structure), less than desirable irrigation water quality and/or high to excessive native salt content.
 - >10: Ideal for application on all soil types.

