



Anaheim Office
November 1, 2024
Report 24-299-0017

Zanker Landscape Materials
675 Los Esteros Road
San Jose Ca 95134

Attn: Marin

RE: Mahogany Mini Mulch

The product submitted is from recycled wood that has not been composted. Visually, this material has a nice color and is free of contaminants.

100% of the material passes through a 1 inch screen and approximately 2.3% is retained in the 1/2" screen. Of the material passing the 1/2-inch screen 83.3% of the amendment passes the 6.4 mm (1/4 inch) screen and 34.4% passes the 2.36 mm (about 1/8 inch). The particle size distribution is favorable for an incorporated amendment and is a little finer than average for a surface mulch.

The product is comprised of 84.8% organic matter by weight with 261 lbs. of organic matter per cubic yard.

The product is strongly acidic with pH 5.0. pH should be considered when amending soils with this mulch. Soluble salts are favorably low. Potassium, calcium, magnesium, and sulfate are well supplied. Boron is safely low yet nutritionally adequate.

The carbon to nitrogen ratio is higher than a well composted material but should pose no risk if nitrogen is supplemented accordingly. If this material is incorporated into the soil, there will be potential for shrinkage and nitrogen draw. A slow release form of nitrogen may be needed to mitigate nitrogen draw. The carbon nitrogen ratio and shrinkage can be reduced by composting.

If no composting is anticipated, then the best use is as a surface mulch. The current grind has a nice appearance but it is a little finer than ideal if the goal is to reduce surface water evaporation and to suppress weed germination.

If we can be of any further assistance, please feel free to contact us.

A handwritten signature in black ink, appearing to read "M. Schwebel".

Matt Schwebel
Mschwebel@waypointanalytical.com
(714)-552-5228

COMPOST / AMENDMENT EVALUATION

Send To : Greenwaste-Zanker Landscape Materials 675 Los Esteros Road San Jose CA 95134	Project : Mahogany Mini Mulch	Report Number : 24-299-0017 Customer Number : 01002 Date printed : 10/31/2024 Date received : 10/25/2024 Page : 1 of 2 Lab Number : 71090
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Sample Id : **Mahogany Mini Mulch**

Nutrient	Total - Dry Weight	Extractable - Dry Weight	Saturation Extract	Sufficiency Factor
Nitrogen (N)	0.56 %	5 ppm		0
NH ₄ -N		4 ppm		
NO ₃ -N		1 ppm		
Phosphorus (P)		25 ppm		0.1
Phosphorus (P ₂ O ₅)		57 ppm		
Potassium (K)		756 ppm	4.6 meq/L	1.2
Potassium (K ₂ O)		915 ppm		
Calcium (Ca)		933 ppm	4.4 meq/L	0.7
Magnesium (Mg)		306 ppm	3.7 meq/L	1.2
Sodium (Na)			1.4 meq/L	
Sulfur (S)				
Sulfate (SO ₄)			3.0 meq/L	1.0
Chloride (Cl)				
Copper (Cu)		0.8 ppm		1.7
Zinc (Zn)		4 ppm		2.6
Manganese (Mn)		19 ppm		5.2
Iron (Fe)		3 ppm		0.2
Dilute Acid Fe		0.03 %		
Boron (B)			0.39 ppm	1.3

Test	Result
pH (sat paste)	5.0 s.u.
% Half Sat.	237
TEC	32 meq/kg
Qualitative Lime	None
Salinity (EC of sat ext.)	1.0 dS/m
SAR (Sodium adsorption ratio)	0.71
Sodium as % of ECE	13 %
Bulk Density - Dry	308 lbs/yd ³
Bulk Density - As Received	388 lbs/yd ³
Moisture - As Received	20.5 %
Organic	84.8 %
Weight of organic / yd ³	261 lbs/yd ³
Weight of mineral / yd ³	47 lbs/yd ³
C/N Ratio	90.7

Gradation	
Wt Percent Retained 1"	0.0 %
Wt Percent Retained 1/2"	2.3 %
Fraction Passing 1/2 inch Screen - Dry Weight Basis	
Screen Opening	% Passing
Passing 9.5mm	96.4 %
Passing 6.4mm (1/4")	83.3 %
Passing 4.75mm	67.3 %
Passing 2.36mm	34.4 %
Passing 1.00mm	13.9 %
Passing 0.50mm	7.9 %

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Sample Id : **Mahogany Mini Mulch**

POTENTIAL RATE LIMIT FACTORS

Test	% Volume rate limit	Cubic yard amendment per 1000 sf to 6"							
		1	2	3	4	5	6	7	8
		Volume % amendment blend with sandy loam							
		5	11	16	22	27	32	38	43
EC sat. ext.	No Limit								
Sodium sol.	No Limit								
Chloride sol.									
Boron sol.	No Limit								
NH ₄ -N	No Limit								
Available									
Nitrogen									
PO ₄ P	No Limit								
Copper	No Limit								
Zinc	No Limit								

Rate limit estimates based on amending a non-problematic sandy loam

RELATIVE IMMEDIATE NUTRIENT AND ORGANIC VALUE

* Example Rate 37 %	Slight	Moderate	Abundant
Nitrogen			
Phosphorus			
Potassium			
Calcium			
Magnesium			
Copper			
Zinc			
Manganese			
Iron			
Sulfate			
Organic Matter			

* If no chemical characteristics are rate limiting, the example rate is based on organic content of the amendment (up to a max of 43%).