



Anaheim Office
February 24, 2026
Report 26-044-0015

Zanker Landscape Materials
675 Los Esteros Road
San Jose Ca 95134

Attn: Marin

RE: Mahogany Mulch

The product submitted is ground wood residual that has not been composted. Visually, this material has a nice dark brown color and is free of contaminants.

All of the material passes a 1 inch screen and approximately 36.2% is retained on a 1/2" screen. Of the material passing the 1/2 inch screen 17% of the amendment passes the 6.4 mm (1/4 inch) screen and 1.1% passes the 2.36 mm (about 1/8 inch). The particle size distribution is favorable for a surface mulch product.

The product is comprised of 94.1% organic matter by weight with 225 lbs. of organic matter per cubic yard.

The product is moderately acidic at pH 5.0. Soluble salts are favorably low. Boron is elevated at 1.91 ppm but should pose no hazard when surface applied.

The carbon to nitrogen ratio is elevated and if this material is incorporated into the soil there will be limited competition between plants and soil microorganisms for available nitrogen. Nitrogen draw is not expected to be an issue if the material is used as a surface mulch.

If no composting is anticipated, then the best use is as a surface mulch. The current grind is favorable 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 "J.K.", is positioned above the typed name.

Joe Kiefer, CCA
jkiefer@waypointanalytical.com

COMPOST / AMENDMENT EVALUATION

Send To : Greenwaste-Zanker Landscape Materials 675 Los Esteros Road San Jose CA 95134	Project : Mahogany Mulch	Report Number : 26-044-0015 Customer Number : 01002 Date printed : 02/18/2026 Date received : 02/13/2026 Page : 1 of 2 Lab Number : 80761
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Sample Id : **Mahogany Mulch**

Nutrient	Total - Dry Weight	Extractable - Dry Weight	Saturation Extract	Sufficiency Factor
Nitrogen (N)	0.4 %	2 ppm		0
NH ₄ -N		2 ppm		
NO ₃ -N		0 ppm		
Phosphorus (P)		74 ppm		0.2
Phosphorus (P ₂ O ₅)		169 ppm		
Potassium (K)		193 ppm	0.9 meq/L	0.3
Potassium (K ₂ O)		234 ppm		
Calcium (Ca)		650 ppm	4.6 meq/L	0.6
Magnesium (Mg)		83 ppm	0.8 meq/L	0.3
Sodium (Na)			1.9 meq/L	
Sulfur (S)				
Sulfate (SO ₄)			6.4 meq/L	2.1
Chloride (Cl)				
Copper (Cu)		1.2 ppm		8.4
Zinc (Zn)		5 ppm		9.4
Manganese (Mn)		10 ppm		8.1
Iron (Fe)		169 ppm		31.8
Dilute Acid Fe		0.06 %		
Boron (B)			1.91 ppm	6.4

Test	Result
pH (sat paste)	5.0 s.u.
% Half Sat.	271
TEC	10 meq/kg
Qualitative Lime	None
Salinity (EC of sat ext.)	0.8 dS/m
SAR (Sodium adsorption ratio)	1.15
Sodium as % of ECe	22 %
Bulk Density - Dry	239 lbs/yd ³
Bulk Density - As Received	405 lbs/yd ³
Moisture - As Received	40.9 %
Organic	94.1 %
Weight of organic / yd ³	225 lbs/yd ³
Weight of mineral / yd ³	14 lbs/yd ³
C/N Ratio	140.9

Gradation	
Wt Percent Retained 1"	0.0 %
Wt Percent Retained 1/2"	36.2 %
Fraction Passing 1/2 inch Screen - Dry Weight Basis	
Screen Opening	% Passing
Passing 9.5mm	35.3 %
Passing 6.4mm (1/4")	17.0 %
Passing 4.75mm	7.4 %
Passing 2.36mm	1.1 %
Passing 1.00mm	1.1 %
Passing 0.50mm	1.1 %

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Sample Id : **Mahogany 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.	39 %								
NH ₄ -N	No Limit								
Available Nitrogen									
PO ₄ P	No Limit								
Copper	48 %								
Zinc	43 %								

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

RELATIVE IMMEDIATE NUTRIENT AND ORGANIC VALUE

* Example Rate 39 %	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%).