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SANTA CLARA OFFICE

September 4, 2008

Report 08-225-0039

EARTH TONES MULCH COMPANY

P.O. Box 1027

Newark, CA 94560

Attn: Hilary Gans

RE: IRON ADDENDUM -NITRO SAWDUST WN RECEIVED 8/12

The material is intended for use as a landscape organic amendment. The determination of iron content was had not been performed when the other data was reported 8/22. That has now been added to the attached data sheet. The 0.08% level found is appropriate. The most common specification seen for dilute acid extractable iron is minimum 0.08%.

Total nitrogen was found to be 0.56% and since actually lower than found on the material previously tested the lab was asked to rerun it and confirmed a level of 0.57%. Perhaps the previous result was in error. If the wood is fir or redwood sawdust, then this level is satisfactory but toward the low end of the appropriate range. If this is a wood type less resistant to decomposition, then greater nitrogen treatment rate is suggested to get it up toward 1%. About 35% of the nitrogen is inorganic and mostly in the ammoniacal form as expected. Salinity is still safely low and the pH is a little high reflecting the presence of some ammonia being evolved. With a little holding time this should come down some

Particle size data show virtually all passing the 1/2 inch screen with about 93% passing the 1/4 inch. The smaller particle sizes are well distributed and the amount of very fine material is satisfactorily low. Actual organic matter content at 308 pounds per cubic yard is excellent fore a sawdust amendment.

JIM WEST

Email 2 pages





# Soil & Plant Laboratory, Inc.

Leaders in Soil & Plant Testing Since 1946  
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## COMPOST / AMENDMENT EVALUATION

Send To : Earth Tones Mulch Company P. O. Box 1027 Newark CA 94560	Project : Organic Amendments	Report Number : <b>08-225-0039</b> Customer Number : 03011 Date printed : 09/04/2008 Date received : 08/12/2008 Page : 1 of 2 Lab Number : 62798
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Sample Id : **Nitro Sawdust 8/10/08 WN**

Nutrient	Total - Dry Weight	Extractable - Dry Weight	Saturation Extract	Sufficiency Factor
Nitrogen (N)	0.55 %	2027 ppm		4.6
NH <sub>4</sub> -N		1973 ppm		
NO <sub>3</sub> -N		54 ppm		
Phosphorus (P )		178 ppm		0.7
Phosphorus (P <sub>2</sub> O <sub>5</sub> )		408 ppm		
Potassium (K)		569 ppm	1.3 meq/L	0.7
Potassium (K <sub>2</sub> O )		688 ppm		
Calcium (Ca)		1707 ppm	0.9 meq/L	0.4
Magnesium (Mg)		299 ppm	0.5 meq/L	0.4
Sodium (Na)			2.2 meq/L	
Sulfur (S)				
Sulfate (SO <sub>4</sub> )			3.7 meq/L	1.2
Chloride (Cl)				
Copper (Cu)				
Zinc (Zn)				
Manganese (Mn)				
Iron (Fe)				
Dilute Acid Fe		0.08 %		
Boron (B)				

Test	Result
pH (sat paste)	8.4 s.u.
% Half Sat.	218
TEC	261 meq/kg
Qualitative Lime	None
Salinity (EC of sat ext.)	1.9 dS/m
SAR (Sodium adsorption ratio)	2.64
Sodium as % of ECe	11 %
Bulk Density - Dry	339 lbs/yd <sup>3</sup>
Bulk Density - As Received	893 lbs/yd <sup>3</sup>
Moisture - As Received	62.0 %
Organic	90.1 %
Weight of organic / yd <sup>3</sup>	306 lbs/yd <sup>3</sup>
Weight of mineral / yd <sup>3</sup>	34 lbs/yd <sup>3</sup>
C/N Ratio	98.1

Gradation	
Wt Percent Retained 1"	0.0 %
Wt Percent Retained 1/2"	1.1 %
<b>Fraction Passing 1/2 inch Screen - Dry Weight Basis</b>	
<b>Screen Opening</b>	<b>% Passing</b>
Passing 9.5mm	98.8 %
Passing 6.4mm ( 1/4")	93.5 %
Passing 4.75mm	88.0 %
Passing 2.36mm	53.3 %
Passing 1.00mm	19.8 %
Passing 0.50mm	8.0 %

## EarthTones Product Specification Nitro-Sawdust Soil Amendment

### Sustainable Product Information

- » Manufactured from 100% Recycled Products
- » Manufactured from materials within 25 miles of production
- » Made from rapidly renewable resources

Nitro-saw dust soil amendment manufactured by EarthTones Mulch is manufactured from 100% recycled kiln-dried lumber that is composed of greater than 90% Douglas fir. Wood fines are greater than 80% organic matter (will supply approximately 270 pounds of organic matter per cubic yard). The product is nitrogen and iron stabilized to ensure (carbon to nitrogen ratio 50:1) to ensure that soil nitrogen draw will not occur.

- 1) Gradation: wood is screened at  $\frac{1}{4}$  inch and greater than 90% is smaller than  $\frac{1}{4}$  inch with no particles greater than  $\frac{1}{2}$  inch.
- 2) Contaminants: The amendment is substantially free of any non-wood contaminants.