



Soil & Plant Laboratory, Inc.

Leaders in Soil & Plant Testing Since 1946

4741 E. Hunter Ave. Suite A Anaheim, CA 92807 714-282-8777 (phone) 714-282-8575 (fax)
www.soilandplantlaboratory.com

COMPOST / AMENDMENT EVALUATION

Send To : Serrano Creek Ranch 25201 Trabuco Rd. Lake Forest CA 92630	Project : MAY 2011 SAMPLE	Report Number : 11-124-0015 Customer Number : 02744 Date printed : 06/01/2011 Date received : 05/04/2011 Page : 1 of 3 Lab Number : 84495
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Sample Id : **COMPOST**

Nutrient	Total - Dry Weight	Extractable - Dry Weight	Saturation Extract	Sufficiency Factor
Nitrogen (N)	1.19 %	70 ppm		0.2
NH ₄ -N		63 ppm		
NO ₃ -N		7 ppm		
Phosphorus (P)	0.3 %	502 ppm		2.2
Phosphorus (P ₂ O ₅)	0.69 %	1150 ppm		
Potassium (K)	1.65 %	15784 ppm	62.9 meq/L	18.0
Potassium (K ₂ O)	2 %	19099 ppm		
Calcium (Ca)	1.36 %	2077 ppm	4.4 meq/L	0.4
Magnesium (Mg)	0.43 %	601 ppm	3.8 meq/L	0.7
Sodium (Na)	0.3 %		20.3 meq/L	
Sulfur (S)	0.31 %			
Sulfate (SO ₄)			23.4 meq/L	7.8
Chloride (Cl)			73.8 meq/L	
Copper (Cu)	85 ppm	2.1 ppm		0.5
Zinc (Zn)	96 ppm	11 ppm		0.7
Manganese (Mn)	188 ppm	17 ppm		0.5
Iron (Fe)	6160 ppm	66 ppm		0.4
Dilute Acid Fe		0.12 %		
Boron (B)	15 ppm		1.87 ppm	6.2

Test	Result
pH (sat paste)	7.8 s.u.
% Half Sat.	194
TEC	326 meq/kg
Qualitative Lime	None
Salinity (EC of sat ext.)	14.5 dS/m
SAR (Sodium adsorption ratio)	10.04
Sodium as % of ECe	13 %
Bulk Density - Dry	338 lbs/yd ³
Bulk Density - As Received	624 lbs/yd ³
Moisture - As Received	45.8 %
Organic	53.1 %
Weight of organic / yd ³	179 lbs/yd ³
Weight of mineral / yd ³	159 lbs/yd ³
C/N Ratio	26.7

Gradation	
Wt Percent Retained 1"	0.0 %
Wt Percent Retained 1/2"	0.1 %
Fraction Passing 1/2 inch Screen - Dry Weight Basis	
Screen Opening	% Passing
Passing 9.5mm	98.8 %
Passing 6.4mm (1/4")	96.7 %
Passing 4.75mm	91.4 %
Passing 2.36mm	56.5 %
Passing 1.00mm	21.8 %
Passing 0.50mm	8.7 %



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Sample Id : **COMPOST**

NUTRIENT SUMMARY

Test	Amount Per Cubic Yard		Amount Per Ton, As Rec'd		Available as a % Of Total
	Total	Available	Total	Available	
Nitrogen	4.02 lbs	0.02 lbs	12.9 lbs	0.08 lbs	1
Phosphorus (P)	1.01 lbs	0.17 lbs	3.24 lbs	0.54 lbs	17
Phosphorus (P ₂ O ₅)	2.31 lbs	0.39 lbs	7.42 lbs	1.25 lbs	17
Potassium (K)	5.58 lbs	5.33 lbs	17.89 lbs	17.11 lbs	96
Potassium (K ₂ O)	6.75 lbs	6.46 lbs	21.64 lbs	20.7 lbs	96
Calcium	4.6 lbs	0.7 lbs	14.74 lbs	2.25 lbs	15
Magnesium	1.46 lbs	0.2 lbs	4.68 lbs	0.65 lbs	14
Sulfur	1.05 lbs	0.49 lbs	3.38 lbs	1.57 lbs	46
Copper	0.46 ozs	0.01 ozs	1.47 ozs	0.04 ozs	3
Zinc	0.52 ozs	0.06 ozs	1.67 ozs	0.18 ozs	11
Manganese	1.02 ozs	0.09 ozs	3.26 ozs	0.29 ozs	9
Iron	33.31 ozs	0.36 ozs	106.84 ozs	1.14 ozs	1
Boron	0.08 ozs	0.04 ozs	0.26 ozs	0.13 ozs	50
Organic Matter	179 lbs		576 lbs		



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Sample Id : **COMPOST**

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.	16 %	[Bar from 0 to 16]							
Sodium sol.	74 %	[Bar from 0 to 74]							
Chloride sol.	20 %	[Bar from 0 to 20]							
Boron sol.	40 %	[Bar from 0 to 40]							
NH ₄ -N	No Limit								
Available									
Nitrogen	No Limit								
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 16 %	Slight	Moderate	Abundant
Nitrogen			
Phosphorus	[Bar from 0 to 16]		
Potassium			[Bar from 0 to 43]
Calcium	[Bar from 0 to 16]		
Magnesium	[Bar from 0 to 16]		
Copper	[Bar from 0 to 16]		
Zinc	[Bar from 0 to 16]		
Manganese	[Bar from 0 to 16]		
Iron	[Bar from 0 to 16]		
Sulfate			[Bar from 0 to 43]
Organic Matter	[Bar from 0 to 16]		

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

Report Number

11-124-0014

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Account Number

02744

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Lake Forest, CA 92630



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Project : MAY 2011 SAMPLE**Purchase Order :****Report Date :** 05/10/2011**Date Received :** 05/04/2011**Date Sampled :**

REPORT OF ANALYSIS

Lab Number: 84494

Sample Id : COMPOST

Analysis	Result	Quantitation Limit	Method	Date and Time Test Started	Analyst
Fecal Coliform , cfu/g	240	10	SM-9222D	05/05/2011 14:10	LSK
Rapid method E-coli O157:H7 , Pos/Neg	Negative		AOAC 996.09	05/05/2011 14:10	LSK
Salmonella (VIP) , Pos/Neg	Negative		AOAC 999.09	05/05/2011 14:10	LSK

Method Reference:

Official Methods of Analysis of AOAC International, 17th Edition, 1998

Standard Methods for the Analysis of Water and Wastewater, 20th Ed. 1998

Comments:

Sample results are reported 'as received' and are not moisture corrected unless noted.