Woods End Research Laboratory, Inc.

Old Rome Road, Box 1850
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Account: 881 Code: smn Project: 227

· Scott Chaskey
· Quail Hill Farm
· P.O. Box 2088, 30 Jagger Lane
· Southampton NY 11969

Date Received : 07/31/1995
Date Reported : 08/16/1995
Lab ID Number : 3298.0

COMPOSITION ANALYSIS

Sample Identification: Potting Soil:Horse Manure and Food Compost with Peat and Perlite

VARIABLE MEASURED Unit	dry basis	as is basis	Notations · RATING
Density ($kg \cdot m^3$)	-	1000	1.00 g/cc VH
Moisture ..... %	0.0	41.7	
Solids ..... %	100.0	58.3	417 mg/liter
est. ideal moisture ..... %		38.5	
pH (1:1 H_2O) ..... $-\log H^+$	-	5.08	L
Free Carbonates ..... Rating	~	1	None
Organic Matter ..... %	29.2	17.0	None
Conductivity (Salts) ..... $mmhos \cdot cm^{-1}$	~	3.4	2176 mg/l H
Carbon:Nitrogen (C:N) Ratio ..... w:w	20.2	20.2	-
Oxidation/Reduction (ORP) Value	~	$\frac{390}{321}$	(High)

Potting Mix Analyses: mg/litre (mg/l) is a volume basis report based on growing media criteria

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MINERALS ANALYSIS

Sample Identification: Potting Soil:Horse Manure and Food Compost with Peat and Perlite

VARIABLE MEASURED	dry basis	as is basis	mg/litre RATING
Total Mineral Nutrients			
Total Nitrogen ..... %	0.782	0.456	4559 H
Organic-Nitrogen ..... %	0.685	0.399	3995 H
Phosphorus (P) ..... %	0.308	0.179	1794 H
Potassium (K) ..... %	0.303	0.177	1766 H
Sodium (Na) ..... %	0.040	0.023	233 M
Calcium (Ca) ..... %	0.950	0.554	5538 VH
Magnesium (Mg) ..... %	0.280	0.163	1632 VH
Soluble Nutrients			
Ammonium-N (NH_4-N) ..... ppm	17	10	10 VL
Nitrate-Nitrogen ..... ppm	951	554	554 H
Nitrite-Nitrogen ..... ppm	0	0	0 VL
Total Soluble Nitrogen ..... ppm	968	564	564 MH
Chloride (Cl) ..... ppm	536	312	312 M
Sulfate (SO_4–S) ..... ppm	421	246	246 ML

Potting Mix Analyses: mg/litre (mg/l) is a volume basis report based on growing media criteria

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Date Received : 07/31/1995
Date Reported : 08/16/1995
Lab ID Number : 3298.1

MINERALS ANALYSIS

Sample Identification: Compost, Horse Manure and Food, A and B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton *as is*
Total Mineral Nutrients				
Total Nitrogen	%	0.964	0.551	11.0
Organic-Nitrogen	%	0.842	0.481	9.6
Phosphorus (P)	%	0.356	0.204	4.1
Potassium (K)	%	0.551	0.315	6.3
Sodium (Na)	%	0.041	0.023	0.5
Calcium (Ca)	%	1.623	0.928	18.6
Magnesium (Mg)	%	0.241	0.138	2.8
Soluble Nutrients				
Ammonium-N (NH_4-N)	ppm	80	46	0.1
Nitrate-N	ppm	1074	614	1.2
Nitrite-N	ppm	69	39	-
Chloride (Cl)	ppm	784	448	0.9
Sulfate (SO_4–S)	ppm	<4	< 2	

Notes: ppm (mg/kg) = per cent x 10,000—- < = less than MLD (minimum level of detection) for the mineral tested

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Date Received : 07/31/1995
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Lab ID Number : 3298.1

COMPOSITION ANALYSIS

Sample Identification: Compost, Horse Manure and Food, A and B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	57.2	1144 lbs/ton
Moisture	%	0.0	42.8	103 gals/ton
est. water holding capacity	%	105.2	51.3	123 gals/ton
pH (1:1 H_2O)	$-\log H^+$	⇝	7.05	-
Free Carbonates	Rating	⇝	2	Medium
Organic Matter	%	29.1	16.7	333 lbs/ton
Conductivity	$mmhos \cdot cm^{-1}$	⇝	4.4	-
Carbon:Nitrogen (C:N) Ratio	w:w	16.3	16.3	-
Oxidation/Reduction (ORP) Value		⇝	$\frac{433}{367}$	(High)
Seedling Response Assay, Percent of Control				
Wheat Germination	%	⇝	102.7	
Cress Germination	%	⇝	105	
Wheat Plant Weight	%	⇝	102.7	
Cress Plant Weight	%	⇝	98.4	

Notes: ppm (mg/kg) = per cent x 10,000— < = less than MLD (minimum level of detection) for the mineral tested

†For explanation of data, see Woods End Laboratory Interpretation Sheet

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Code: smn Project: 227

Date Received : 07/31/1995
Date Reported : 08/16/1995
Lab ID Number : 3298.2

COMPOSITION ANALYSIS

Sample Identification: Compost, Horse Manure, 1,2 and 3 Windrows

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	48.5	970 lbs/ton
Moisture	%	0.0	51.5	124 gals/ton
est. water holding capacity	%	165.7	62.4	150 gals/ton
pH (1:1 H_2O)	$-\log H^+$	~	6.80	-
Free Carbonates	Rating	~	1	None
Organic Matter	%	51.2	24.8	496 lbs/ton
Conductivity	$mmhos \cdot cm^{-1}$	~	4.5	-
Carbon:Nitrogen (C:N) Ratio	w:w	19.0	19.0	-
Oxidation/Reduction (ORP) Value		~	$\frac{403}{358}$	(High)
Seedling Response Assay, Percent of Control				
Wheat Germination	%	~	113.5	
Cress Germination	%	~	105	
Wheat Plant Weight	%	~	112.7	
Cress Plant Weight	%	~	100.6	

Notes: ppm (mg/kg) = per cent x 10,000— < = less than MLD (minimum level of detection) for the mineral tested

†For explanation of data, see Woods End Laboratory Interpretation Sheet

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Date Received : 07/31/1995
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Lab ID Number : 3298.2

MINERALS ANALYSIS

Sample Identification: Compost, Horse Manure, 1,2 and 3 Windrows

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton *as is*
Total Mineral Nutrients				
Total Nitrogen	%	1.451	0.704	14.1
Organic-Nitrogen	%	1.325	0.643	12.9
Phosphorus (P)	%	0.377	0.183	3.7
Potassium (K)	%	0.927	0.450	9.0
Sodium (Na)	%	0.113	0.055	1.1
Calcium (Ca)	%	0.849	0.412	8.2
Magnesium (Mg)	%	0.261	0.127	2.5
Soluble Nutrients				
Ammonium-N (NH_4-N)	ppm	47	23	0.0
Nitrate-N	ppm	1214	589	1.2
Nitrite-N	ppm	<2	< 1	
Chloride (Cl)	ppm	2462	1194	2.4
Sulfate (SO_4–S)	ppm	<4	< 2	

Notes: ppm (mg/kg) = per cent x 10,000—- < = less than MLD (minimum level of detection) for the mineral tested