Woods End Laboratories, Inc.

290 Belgrade Road, P.O. Box 297
Mount Vernon, ME 04352/USA
207-293-2457 fax: 207-293-2488 www.woodsend.org

Account: 2639
· Steve Googins
· Town of Cumberland
· 290 Tuttle Rd.
· Cumberland Maine 04021

Code: Project:
Date Received : 2011-06-01
Date Reported : 2011-06-03
Lab ID Number : 8063.0
Quality Control :

COMPOSITION ANALYSIS

Sample Identification: Compost: Leaf and Yard waste plus Horse manure

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Bulk Density	lbs·ft^3	-	38	1028 lbs/yd^3
Total Solids (dry matter)	%	100.0	33.9	678 lbs/ton
Moisture Content	%	0.0	66.1	159 gals/ton
Water Holding Capacity (*calc*)	%	173	63	152 gals/ton
Inert and Oversize Matter	%	⇝	21.7	434.6 lbs/ton
pH (sat. paste in H_2O)	-logH^+	⇝	7.03	Med Ideal
Free Carbonates (CO_3)	lime potential	⇝	1	None
Total Organic Matter	%	53.7	18.2	364 lbs/ton
Water Soluble Organic Carbon	ppm	4726	1602	Med High
Conductivity (salinity)	dS·m^{-1}	⇝	0.9	V Low
Carbon:Nitrogen (C:N) Ratio	w:w	52.6	52.6	V High
Seedling Response Assay, Biological Stability				
Cress Emergence	% of total	⇝	93	No Inhibition
Cress Biomass	% of Control	⇝	64	Passing
Auxinic Effects	Symptom Rank	⇝	2.5	M-Severe
Germinable Weeds	#/liter	⇝	0	weed-free
Solvita CO_2	(Range 1-8)	⇝	6.61	Med-Low
Solvita Ammonia (NH_3)	(Range 1-5)	⇝	5.00	low or none
Solvita CO_2 Concentration	(%)	⇝	0.86	Low

†For explanation of data, see Woods End Laboratories, Inc. Interpretation Sheet at www.woodsend.org

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MINERALS ANALYSIS

Sample Identification: Compost: Leaf and Yard waste plus Horse manure

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton *as is*
Mineral Nutrients				
Total Nitrogen	%	0.551	0.187	3.7
Inorganic Soluble Nitrogen	ppm	35	12	0.0
Total Soluble Nitrogen	ppm	504	171	L
Phosphorus (P) (acid-soluble)	%	0.185	0.063	1.3
Extractable & Total Cations				
Ammonium (NH_4-N) extracted	ppm	35	12	0.0
Potassium (K)	%	0.295	0.100	2.0
Sodium (Na)	%	0.054	0.018	0.4
Calcium (Ca) extractable	ppm	10520	3566	7.1
Magnesium (Mg) extractable	ppm	1690	573	1.1

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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SUPPLEMENTAL ANALYSIS

Sample Identification: Compost: Leaf and Yard waste plus Horse manure

VARIABLE MEASURED	Unit	dry basis	as is basis†	lbs/ton Rating‡*as is*
BACTERIOLOGIC ANALYSIS				
Fecal coliform EPA503	MPN per g	130	-	less than 1000 is OK

Notes: $mg \cdot kg^{-1}$ = ppm (parts per million); MPN = most probable number

< signifies *less than MLD* (minimum level of detection) for the particular factor tested

† "as is" = wet basis ‡ Rating of Metals Based on international soil standard and is not a Sludge Rule EPA503 process